



Your Reliable Power Partner

ISO-9001 Switching Power Supply Manufacturer



Feature Products for 2010

To comply with the global trend of energy saving, MEAN WELL invests resources to develop new generation of switching power supplies imbued with green concept. From LED power supply, green adaptor, solar inverter, battery charger to high efficiency AC/DC power supplies, we are looking for higher in efficiency, lower in no load power consumption, smaller in size, and in compliance with the latest regulations all over the world.



► LED Power Supply

HLG, CLG, CEN, PLN, PLC, ELN, LP, ULP and PLP families form a complete group of LED / outdoor power solution. Ranging from 18W to 240W, with or without PFC, and comply with specific norms (UL8750, EN61347) for LED related applications.



► Green Adaptor

Ranging from 6~220W and with low no load power consumption, the green adaptor series comply with EISA 2007 and ErP (Energy-related Products) regulations.



► Solar Inverter

Consolidating with solar panels, TN series can construct an independent solar power system to save the precious energy.



► Battery Charger

Ranging from 30~1000W with diverse model selections, the battery chargers are suitable for all kinds of batteries, such as lead-acid battery, Lithium-Mn battery(LiMnO₂), Lithium-Fe battery(LiFePO₄), and sealed lead-acid gel battery...etc.



► Slim DIN Rail Power with Wide Range Input

With wide input range from 180~550VAC, WDR series reduce the size by 40%+ and possess up to 94% of extreme high efficiency. Relay contact style alarm signal, EN61000-6-2 heavy industry immunity level compliance are the specialities.



MEAN WELL offers you an opportunity to get the free custom-standard design. Among our under development products, you are welcome to join the design procedure and let the new product fulfill your special requirement. No NRE charge, no safety costs, just contact us in time!!

■ Enclosed Switching Power Supply

G3 Series	RS-15 / 25 / 35 / 50 / 75 / 100 / 150	2~3
	RD-35 / 50 / 65 / 85 / 125	
	RID-50 / 65 / 85 / 125, RT-50 / 65 / 85 / 125	
	RQ-50 / 65 / 85 / 125	
NE Series	NES-15 / 25 / 35 / 50 / 75 / 100 / 150	4~5
	NED-35 / 50 / 75 / 100, NET-35 / 50 / 75	
	NES-200, NES-350	
SE Series	SE-200, SE-350, SE-450	6
	SE-600, SE-1000, SE-1500	QP-1000 7
G2 Series	S-25, S-40, S-60, S-100F, S-150	8
	S-210, S-250, S-320	SP-400 9
	D / ID / T / IT-60, Q / IQ-60	10
	D / T / Q-120, Q-250, T-40	11
PFC Series	SP-75, SP-100, SP-150, SP-200, SP-240	12
	SP-320, SP-480, SP-500, SP-750	13
	PSP-500, PSP-600, RSP-1000, RSP-1500	14
	RSP-2000, RSP-2400 / 3000, TP-75, QP-320	15
	TP-100, QP-100, TP-150, QP-150	16
	QP-200, QP-375	17
	HRP-75, HRP-100, HRP-G-150, HRP-G-200	18
	HRP-G-300 / 450 / 600	19
	SPV-150, SPV-300, SPV-600, SPV-1500	20
	USP-150, USP-225, USP-350, USP-500	21
U-bracket DIN Series	MDR-10 / 20 / 40 / 60 / 100	22
	DR-15, DR-30, DR-60, DR-100	23
	DR-45, DR-75, DR-120,	24
	DRP-240, DRP-480, DRP-480S	
	DRH-120, DRT-240, DRT-480, DRT-960	25
	WDR-120, WDR-240, WDR-480, EPS-45/65	26
	SDR-120, SDR-240, SDR-480P	27
	DR-RDN20, DR-UPS40	28
LED Series	LPL-18, LPH-18, LPHC-18, LPLC-18	29
	LPV-20, LPV-35, LPV-60, LPV-100	30
	LPC-20, LPC-35, LPC-60	LPF-40/60 31
	ELN-30, ELN-60	32
	PLN-20, PLN-30, PLN-45, PLN-60, PLN-100	33
	PLC-30, PLC-45, PLC-60, PLC-100	34
	CLG-60, CLG-100, CLG-150	Waterproof Connector 35
	CEN-60, CEN-75, CEN-100, ULP-150	36
	HLG-80H, HLG-120H, HLG-100H, HLNP-80H	37
	HLG-185H, 240H, 320H, HLG-150H	38
	PLP-20 / 30 / 45 / 60	PCD-16/25 39
19" Rack Power	RCP-1000, RCP-1U, RCP-MU	RCP-2000 40
	RCP-2U	ARCP Series 41
Modular Series	MP450, MP650, MP1K0	42~43
	MS-75 / 150 / 300, MD-100	

■ Open Frame Switching Power Supply

Medical Type	PM-05, PM-10, PM-15, PM-20	44
	NFM-05, NFM-10, NFM-15, NFM-20	45
	MPS-30, MPS / D / T-45	EPS-45/65 46
	RPS / D / T-60, MPS / D / T-65	47
	RPS / D / T-75, RPS-G / D-G / T-G-160	48
	MPS / D / T / Q-120, MPS / D / T / Q-200	49
General Type	PS-05, PS-15, PS-25, PD-25	50
	PS-35, ELP-75, PS-45, PD-45, PT-45	51
	PT-4503, PT-6503, PS-65, PD-65, PT-65	52
	RPD-65, RPT-65, PD-110, PQ-100	53
	PPQ-100, PPS / PPT-125	54
	ASP-150, PPS-200, PID-250	55
	LPS-50, LPS-75, LPS-100, LPP-100 / 150	56

■ External Switching Power Supply

Charger	PA-120, PB-120, PS-120	57
	ESC / P-120, ESC / P-240, PB-230, PB-300	58
	PB-360, PB-600, PB-1000	ADD-300 59
	GC30B / U / E, GC120, GC160, GC220	60
Green Adaptor	GS06U / E, GS12U / E, GS15A / B / U / E	61
	GE12, GE18, GE24	Interchangeable AC Inlet Plug 62
	GS18A / B / U / E, GS25A / B / U / E	63
	GS40, GS60, GS90, GS120	64
	AS-120P, GS160, GS220	ErP Compliance List 65
Adaptor	P25A / B, P50A	DC Plug List 66
	MES30A / B / C, MES50A	67
	ES18A / B / C, ES25A / B / C	68
	ES18U / E, ES25U / E	69

■ Specific Purpose Power Supply

Security Series	SCP-35 / 50 / 75, PSC-60, PSC-100	70
	ADS-55 / 155, AD-55 / 155, ADD-55 / 155	71
Video Game	MWP-602 / 606 / 608, MWP-610P	72
ATX Power	ATX-100	72
	IPC-200, IPC-250, IPC-300	73
	YP-350A, YP-400A, YP-450A, YP-350J	

■ DC/DC Converter

Module Type	SRS, SUS01	74
	SBT01, SFT01, DET01	75
	SPR01, SMU01, SMA01	76
	SPU02, SPA02, SPB03	77
	SCW03, DCW03, SCW05, DCW05	78
	SLW05, DLW05, SCW08, DCW08	79
	SKE10, DKE10, SCW12, DCW12	80
	SKA15, DKA15, SKE15, DKE15	81
	DKA30, TKA30, SDM30	82
	SKA40	83
On Board Type	NSD05	83
	NSD10-S, NSD10-D, NSD15-S, NSD15-D	84
	NID30, NID60	85
PCB Type	PSD-05, PSD-15	85
	PSD-30, PSD-45	86
Enclosed Type	SD-15, SD-25	86
	SD-50, SD-100, SD-150, SD-200	87
	SD-350, SD-500, SD-1000	RSD-100 88

■ DC/AC Power Inverter

Modified Sine Wave	A301-100 / 150 / 300 / 600 / 1K0 / 1K7 / 2K5	89
	A302-100 / 150 / 300 / 600 / 1K0 / 1K7 / 2K5	
True Sine Wave	TS-200, TS-400, TS-700	AC Output Receptacle 90
	TS-1000, TS-1500, TS-3000, IRC1 / 2	91
	TN-1500, TN-3000, IRC3	92

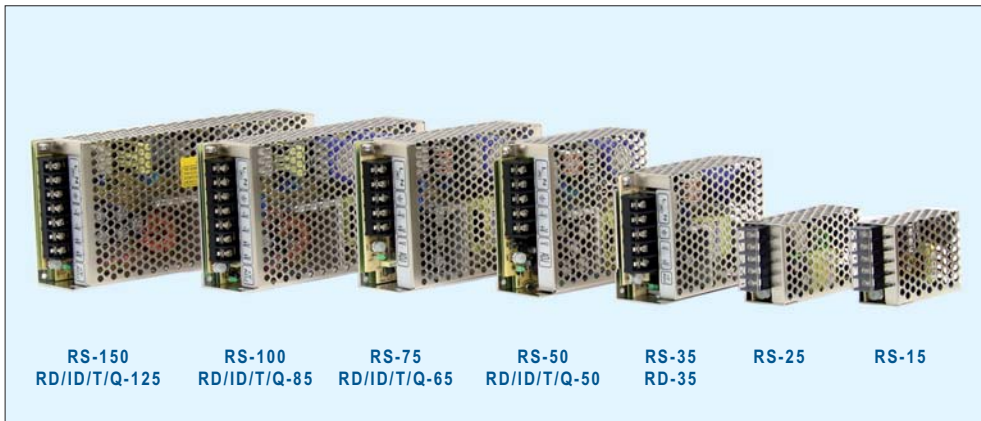
■ Accessories / Case Drawing

Case Drawing	Case 901 / 902 / 903 / 905 / 906 / 907	93
	Case 910/912(B)/915A/916(A/B)/919/920A	94
	Case 926 / 927 / 928 / 929 / 931 / 932	95
	Case 935 / 939 / 940 / 941 / 943 / 946A	96
	Case 952B / 963 / 971A / 977A / 980A / 986	97
	Case 987A / 988A / 995 / 996A / 998A, TN/S-1500	98
Accessories	DRL-01 / 02 / 03 / 03A, DRP-01 / 02 / 03	99
	MHS012 / 013 / 014 / 025 / 026 / 027	
	TBC05 / 07 / 08	
Custom-Standard Product List	PAD-100, PT-320, SP-400, QP-1000	100

	: New Announced		: Available by Request
	: New Product within 1 Year		: Supplementary Information
	: Under Development		

Enclosed-G3 Series

High Reliability Miniature



■ Features

- All using 105°C long life electrolytic capacitors
- Protections: Short circuit / Overload / Over voltage
- Meet EMS EN50082-2/EN61000-6-2 heavy industry level (35~150W)
- Withstand 300VAC surge input for 5 sec.
- High operating temperature up to 70°C
- Withstand 5G vibration test
- Miniature size, high power density
- High efficiency, long life and high reliability
- 100% full load burn-in test
- Suitable for critical applications
- 3 years warranty

■ General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.	RS-15	RS-25	RS-35 RD-35	RS-50 RD / ID / T / Q-50	RS-75 RD / ID / T / Q-65	RS-100 RD / ID / T / Q-85	RS-150 RD / ID / T / Q-125
AC input voltage range	88~264VAC, 124~370VDC						115 / 230VAC by switch
AC inrush current (max.)	Cold start, 65A at 230VAC	30A at 230VAC	36A at 230VAC	33A at 230VAC	40A at 230VAC	50A at 230VAC	
DC adjustment range	±10% by potential meter for single output; CH1 -5%~+10% by potential meter for multiple output						
Overload protection	>105%, hiccup mode	110%~180%	110%~150% hiccup mode, auto-recovery (150% ~190% for RID-125-1205/2405)				
Over voltage protection	115%~135%, Shut off	115%~135% rated output voltage, hiccup mode, auto-recovery					
Withstand voltage	I/P - O/P: 3kVAC, I/P - FG: 1.5kVAC, O/P - FG: 0.5kVAC, 1 minute						
Working temperature	-20°C~+70°C (refer to the derating curve for different models)						
Vibration	10~500Hz, 5G 10min/1 cycle, period for 60 min each along X, Y, Z axes						
Safety standards	UL60950-1, TUV EN60950-1 approved						
EMC standards	EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, ENV50204, EN61000-6-2 (EN50082-2) (35~150W)						
Connection	Terminal block for input and output						
Dimension (LxWxH)(mm)	62.5x 51x 28	78x 51x 28	99x 82x 35	99x 97x 36	129x 98x 38	159x 97x 38	199x 98x 38
Case No.	971A	931A	932A	905B	903	901C	902
Packing	108pcs /15.0kg	60pcs /13.0kg	45pcs /14.0kg	45pcs /19.5kg	30pcs /14.2kg	24pcs /15.4kg	20pcs /15.4kg

■ 15W — Single Output

Model No.	Output	Tol.	R&N	Effi.
RS-15-3.3	3.3V, 0~3.0A	±3%	80mV	72%
RS-15-5	5V, 0~3.0A	±2%	80mV	77%
RS-15-12	12V, 0~1.3A	±1%	120mV	81%
RS-15-15	15V, 0~1.0A	±1%	120mV	81%
RS-15-24	24V, 0~0.625A	±1%	200mV	82%
RS-15-48	48V, 0~0.313A	±1%	200mV	82%

RS-50-15	15V, 0~3.4A	±1%	120mV	83%
RS-50-24	24V, 0~2.2A	±1%	120mV	84%
RS-50-48	48V, 0~1.1A	±1%	200mV	86%

■ 75W — Single Output

Model No.	Output	Tol.	R&N	Effi.
RS-75-3.3	3.3V, 0~15A	±3%	80mV	71%
RS-75-5	5V, 0~12A	±2%	80mV	76%
RS-75-12	12V, 0~6.0A	±1%	120mV	81%
RS-75-15	15V, 0~5.0A	±1%	120mV	82%
RS-75-24	24V, 0~3.2A	±1%	120mV	85%
RS-75-48	48V, 0~1.6A	±1%	200mV	86%

■ 25W — Single Output

Model No.	Output	Tol.	R&N	Effi.
RS-25-3.3	3.3V, 0~6.0A	±3%	80mV	73.5%
RS-25-5	5V, 0~5.0A	±2%	80mV	78.5%
RS-25-12	12V, 0~2.1A	±1%	120mV	81.5%
RS-25-15	15V, 0~1.7A	±1%	120mV	83.5%
RS-25-24	24V, 0~1.1A	±1%	120mV	86.0%
RS-25-48	48V, 0~0.57A	±1%	200mV	85.0%

■ 100W — Single Output

Model No.	Output	Tol.	R&N	Effi.
RS-100-3.3	3.3V, 0~20A	±3%	80mV	74%
RS-100-5	5V, 0~16A	±2%	80mV	77%
RS-100-12	12V, 0~8.5A	±1%	120mV	81%
RS-100-15	15V, 0~7.0A	±1%	120mV	82%
RS-100-24	24V, 0~4.5A	±1%	120mV	84%
RS-100-48	48V, 0~2.3A	±1%	200mV	84%

■ 35W — Single Output

Model No.	Output	Tol.	R&N	Effi.
RS-35-3.3	3.3V, 0~7.0A	±3%	80mV	73%
RS-35-5	5V, 0~7.0A	±2%	80mV	77%
RS-35-12	12V, 0~3.0A	±1%	120mV	81%
RS-35-15	15V, 0~2.4A	±1%	120mV	83%
RS-35-24	24V, 0~1.5A	±1%	120mV	84%
RS-35-48	48V, 0~0.8A	±1%	200mV	84%

■ 150W — Single Output

Model No.	Output	Tol.	R&N	Effi.
RS-150-3.3	3.3V, 0~30A	±3%	80mV	74%
RS-150-5	5V, 0~26A	±2%	80mV	78%
RS-150-12	12V, 0~12.5A	±1%	120mV	83%
RS-150-15	15V, 0~10A	±1%	120mV	84%
RS-150-24	24V, 0~6.5A	±1%	120mV	86%
RS-150-48	48V, 0~3.3A	±1%	200mV	87%

■ 50W — Single Output

Model No.	Output	Tol.	R&N	Effi.
RS-50-3.3	3.3V, 0~10A	±3%	80mV	72%
RS-50-5	5V, 0~10A	±2%	80mV	78%
RS-50-12	12V, 0~4.2A	±1%	120mV	81%

Enclosed-G3 Series



35W — Dual Output

Model No.	Output	Tol.	R&N	Effi.	Max.
RD-35A	5V, 0.3~4.0A	±2%	80mV	72%	32W
	12V, 0.2~1.0A	±6%	120mV	77%	
RD-35B	5V, 0.3~4.0A	±2%	80mV	79%	35W
	24V, 0.2~1.3A	±5%	120mV	82%	
RD-3513	13.5V, 0.3~2.0A	±4%	120mV	84%	35W
	-13.5V, 0.2~0.57A	±4%	120mV	85%	

50W — Dual Output (Output isolated for RID-50A/B)

Model No.	Output	Tol.	R&N	Effi.	Max.
RD-50A	5V, 0.3~6.0A	±2%	80mV	79%	54W
	12V, 0.3~3.0A	±7%	120mV		
RD-50B	5V, 0.3~6.0A	±2%	80mV	80%	54W
	24V, 0.2~2.0A	+8%, -4%	120mV		

65W — Dual Output (Output isolated for RID-65A/B)

Model No.	Output	Tol.	R&N	Effi.	Max.
RD-65A	5V, 0.3~8.0A	±2%	80mV	79%	66W
	12V, 0.2~4.0A	±6%	120mV		
RD-65B	5V, 0.3~8.0A	±2%	80mV	78%	68W
	24V, 0.2~3.0A	+4%, -6%	150mV		

85W — Dual Output (Output isolated for RID-85A/B)

Model No.	Output	Tol.	R&N	Effi.	Max.
RD-85A	5V, 2.0~10A	±2%	80mV	78%	88W
	12V, 0.3~5.0A	±5%	120mV		
RD-85B	5V, 2.0~10A	±2%	80mV	80%	88W
	24V, 0.3~2.5A	±5%	150mV		

125W — Dual Output

Model No.	Output	Tol.	R&N	Effi.	Max.
RD-125A	5V, 2.0~15A	±5%	80mV	82%	131W
	12V, 0.5~10A	±7%	120mV		
RD-125B	5V, 2.0~10A	±5%	80mV	85%	133W
	24V, 0.4~5.0A	±7%	150mV		

125W — Dual Output (Output isolated for RID-125)

Model No.	Output	Tol.	R&N	Effi.	Max.
RD-125-1224	12V, 1.0~7.0A	±2%	120mV	85%	133W
	24V, 0.4~5.0A	+8%, -5%	200mV		
*RD-125-2412	24V, 0.5~5.0A	±2%	200mV	85%	133W
	12V, 1.0~7.0A	±10%	120mV		
RD-125-1248	12V, 1.0~7.0A	±2%	120mV	85%	138W
	48V, 0.2~2.5A	+8%, -5%	240mV		
*RD-125-4812	48V, 0.3~2.5A	±2%	240mV	85%	138W
	12V, 1.0~7.0A	±10%	120mV		
RD-125-2448	24V, 0.5~4.0A	±1%	200mV	86%	144W
	48V, 0.2~2.5A	±4%	240mV		
*RD-125-4824	48V, 0.3~2.5A	±1%	240mV	86%	144W
	24V, 0.5~4.0A	±8%	240mV		
RID-125-1205	12V, 2.0~10.5A	±2%	120mV	80%	125W
	5V, 0.0~3.0A	±3%	80mV		
RID-125-2405	24V, 2.0~5.3A	±2%	120mV	83%	125W
	5V, 0.0~3.0A	±3%	80mV		

*Modified

50W — Quad Output (RT-50 without -5V or -12V output)

Model No.	Output	Tol.	R&N	Effi.	Max.
RQ-50B	5V, 0.5~6.0A	±2%	80mV	74%	46W
	12V, 0.2~1.5A	±6%	120mV		
	-5V, 0.0~1.0A	±2%	100mV		
	-12V, 0.0~1.0A	±2%	80mV		
RQ-50C	5V, 0.5~6.0A	±2%	80mV	75%	50W
	15V, 0.2~1.5A	±6%	120mV		
	-5V, 0.0~1.0A	±2%	100mV		
	-15V, 0.0~1.0A	±2%	80mV		
RQ-50D	5V, 0.5~6.0A	±6%	80mV	79%	53W
	12V, 0.2~1.5A	±6%	120mV		
	24V, 0.1~1.0A	+7%, -5%	180mV		
	-12V, 0.0~1.0A	±2%	80mV		

65W — Quad Output (RT-65 without -5V or -12V output)

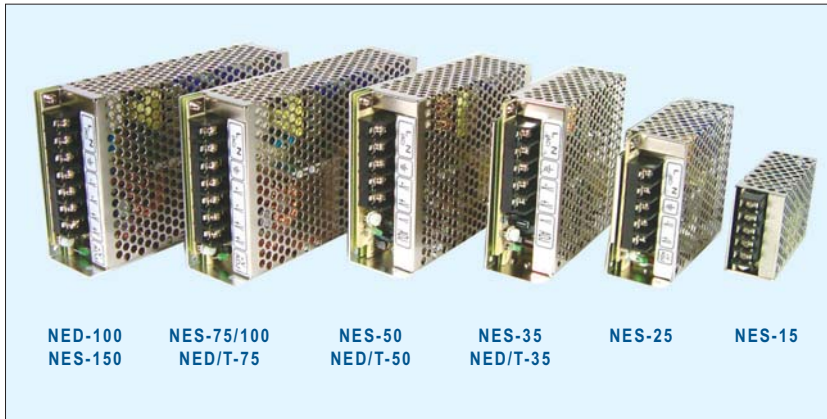
Model No.	Output	Tol.	R&N	Effi.	Max.
RQ-65B	5V, 0.5~8.0A	±2%	80mV	76%	63W
	12V, 0.2~3.0A	+7%, -5%	120mV		
	-5V, 0.0~1.0A	±5%	80mV		
	-12V, 0.0~1.0A	±5%	80mV		
RQ-65C	5V, 0.5~8.0A	±2%	80mV	76%	65W
	15V, 0.2~3.0A	+8%, -4%	120mV		
	-5V, 0.0~1.0A	±5%	80mV		
	-15V, 0.0~1.0A	±5%	80mV		
RQ-65D	5V, 0.5~8.0A	±2%	80mV	78%	68W
	12V, 0.2~3.0A	±6%	120mV		
	24V, 0.1~1.5A	±8%	180mV		
	-12V, 0.0~1.0A	±5%	80mV		

85W — Quad Output (RT-85 without -5V or -12V output)

Model No.	Output	Tol.	R&N	Effi.	Max.
RQ-85B	5V, 2.0~10A	±2%	80mV	76%	81W
	12V, 0.3~4.0A	+7%, -3%	120mV		
	-5V, 0.0~1.0A	±8%	100mV		
	-12V, 0.0~1.0A	±5%	80mV		
RQ-85C	5V, 2.0~10A	±2%	80mV	77%	83W
	15V, 0.3~4.0A	+3%, -7%	120mV		
	-5V, 0.0~1.0A	±8%	100mV		
	-15V, 0.0~1.0A	±5%	80mV		
RQ-85D	5V, 2.0~10A	±2%	80mV	78%	84W
	12V, 0.3~4.0A	+7%, -3%	120mV		
	24V, 0.1~1.5A	±8%	150mV		
	-12V, 0.0~1.0A	±5%	80mV		

125W — Quad Output (RT-125 without -5V or -12V output)

Model No.	Output	Tol.	R&N	Effi.	Max.
RQ-125B	5V, 2.0~12A	±2%	80mV	79%	120W
	12V, 0.5~4.5A	+8%, -3%	120mV		
	-5V, 0.1~1.0A	+6%, -10%	80mV		
	-12V, 0.0~1.0A	±5%	80mV		
RQ-125C	5V, 2.0~12A	±2%	80mV	80%	123W
	15V, 0.5~4.0A	+8%, -3%	120mV		
	-5V, 0.1~1.0A	+6%, -10%	80mV		
	-15V, 0.0~1.0A	±5%	80mV		
RQ-125D	5V, 2.0~12A	±2%	80mV	82%	124W
	12V, 0.5~4.0A	+8%, -3%	120mV		
	24V, 0.1~2.5A	±8%	150mV		
	-12V, 0.0~1.0A	±5%	80mV		



Features

- Universal AC input / Full range (NES/D-100, NES-150 AC input selectable by switch)
- Protections: Short circuit / Overload / Over voltage
- Built-in over temperature protection for NES-15
- Cooling by free air convection
- Small size, high power density
- Low cost, high reliability
- 100% full load burn-in test
- Most economical low wattage solution with safety certificates
- 2 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.	NES-15	NES-25	NES-35 NED/T-35	NES-50 NED/T-50	NES-75 NED/T-75	NES-100	NES-150 NED-100
AC input voltage range	85~264VAC, 120 ~ 370VDC					115/230VAC by switch	
AC inrush current (max.)	Cold start, 45A at 230VAC						
DC adjustment range	±10% by potential meter for single output; CH1 -5~+10% by potential meter for multiple output					-5% ~ +10% (NES-100/150) CH1 -5% ~ +10% (NED-100)	
Overload protection	>105%	110%~150% hiccup mode, auto-recovery					
Over voltage protection	115%~135% rated output voltage, shut off					115%~135% hiccup mode, auto-recovery	
Withstand voltage	I/P - O/P: 3kVAC, I/P - FG: 1.5kVAC, O/P - FG: 0.5kVAC, 1 minute						
Working temperature	-20 ~ +60°C (refer to the derating curve for different models)						
Vibration	10~500Hz, 2G 10min/1 cycle, period for 60 min each along X, Y, Z axes						
Safety standards	UL60950-1, GB4943(NES only) approved, also design refer to TUV EN60950-1						
EMC standards	EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, ENV50204, GB9254(NES only)						
Connection	Terminal block for input and output						
Dimension (LxWxH)(mm)	78x 51x 28	99x 82x 35	99x 97x 36	129x 98x 38	159x 97x 38	159x 97x 38	199x 98x 38
Case No.	931A	932B	905	903	901	901	902
Packing	60pcs/11.8kg	45pcs/14.5kg	45pcs/17.2kg	45pcs/19.5kg	30pcs/16.6kg	30pcs/17.5kg	30pcs/22kg

15W — Single Output

Model No.	Output	Tol.	R&N	Effi.
NES-15-5	5V, 0~3.0A	±2%	150mV	79%
NES-15-12	12V, 0~1.3A	±1%	150mV	81%
NES-15-15	15V, 0~1.0A	±1%	150mV	81%
NES-15-24	24V, 0~0.7A	±1%	200mV	85%
NES-15-48	48V, 0~0.35A	±1%	240mV	82%

25W — Single Output

Model No.	Output	Tol.	R&N	Effi.
NES-25-5	5V, 0~5.0A	±2%	80mV	78%
NES-25-12	12V, 0~2.1A	±1%	120mV	83%
NES-25-15	15V, 0~1.7A	±1%	150mV	84%
NES-25-24	24V, 0~1.1A	±1%	200mV	86%
NES-25-48	48V, 0~0.57A	±1%	240mV	86%

35W — Single Output

Model No.	Output	Tol.	R&N	Effi.
NES-35-5	5V, 0~7.0A	±2%	80mV	78%
NES-35-12	12V, 0~3.0A	±1%	120mV	81%
NES-35-15	15V, 0~2.4A	±1%	150mV	83%
NES-35-24	24V, 0~1.5A	±1%	200mV	85%
NES-35-48	48V, 0~0.8A	±1%	240mV	86%

50W — Single Output

Model No.	Output	Tol.	R&N	Effi.
NES-50-5	5V, 0~10A	±2%	80mV	79%
NES-50-12	12V, 0~4.2A	±1%	120mV	82%
NES-50-15	15V, 0~3.4A	±1%	150mV	83%
NES-50-24	24V, 0~2.2A	±1%	200mV	86%
NES-50-48	48V, 0~1.1A	±1%	240mV	87%

75W — Single Output

Model No.	Output	Tol.	R&N	Effi.
NES-75-5	5V, 0~14A	±2%	80mV	77%
NES-75-12	12V, 0~6.2A	±1%	120mV	82%
NES-75-15	15V, 0~5.0A	±1%	150mV	83%
NES-75-24	24V, 0~3.2A	±1%	200mV	86%
NES-75-48	48V, 0~1.6A	±1%	240mV	87%

100W — Single Output

Model No.	Output	Tol.	R&N	Effi.
NES-100-5	5V, 0~20A	±2%	80mV	80%
NES-100-7.5	7.5V, 0~13.6A	±1%	120mV	81%
NES-100-9	9V, 0~11.2A	±1%	120mV	81%
NES-100-12	12V, 0~8.5A	±1%	120mV	83%
NES-100-15	15V, 0~7.0A	±1%	120mV	84%
NES-100-24	24V, 0~4.5A	±1%	120mV	86%
NES-100-48	48V, 0~2.3A	±1%	150mV	86%

150W — Single Output



Model No.	Output	Tol.	R&N	Effi.
NES-150-3.3	3.3V, 0~30A	±3%	80mV	73%
NES-150-5	5V, 0~26A	±2%	80mV	78%
NES-150-7.5	7.5V, 0~20A	±1%	120mV	80%
NES-150-9	9V, 0~16.7A	±1%	120mV	83%
NES-150-12	12V, 0~12.5A	±1%	120mV	83%
NES-150-15	15V, 0~10A	±1%	120mV	83%
NES-150-24	24V, 0~6.5A	±1%	120mV	86%
NES-150-48	48V, 0~3.3A	±1%	200mV	86%

Enclosed-NE Series

35W — Dual Output

Model No.	Output	Tol.	R&N	Effi.	Max.
NED-35A	5V, 0.5~5.0A	±2%	80mV	78%	32W
	12V, 0.1~1.5A	±6%	120mV		
NED-35B	5V, 0.5~4.0A	±2%	80mV	81%	35W
	24V, 0.2~1.3A	±6%	200mV		

50W — Dual Output

Model No.	Output	Tol.	R&N	Effi.	Max.
NED-50A	5V, 1.0~6.0A	±2%	80mV	79%	54W
	12V, 0.3~3.0A	±6%	120mV		
NED-50B	5V, 1.0~6.0A	±2%	80mV	82%	54W
	24V, 0.2~2.0A	±6%	200mV		

75W — Dual Output

Model No.	Output	Tol.	R&N	Effi.	Max.
NED-75A	5V, 1.0~8.0A	±2%	80mV	78%	71W
	12V, 0.3~4.0A	±6%	120mV		
NED-75B	5V, 1.0~6.0A	±2%	80mV	81%	73W
	24V, 0.2~3.0A	±6%	200mV		

100W — Dual Output (Output isolated for NED-100□GD)

Model No.	Output	Tol.	R&N	Effi.	Max.
NED-100A	5V, 2~10A	±2%	80mV	80%	100W
	12V, 0.7~7.0A	±10%	120mV		
NED-100B	5V, 1~10A	±2%	80mV	82%	100W
	24V, 0.3~3.5A	±8%	200mV		
NED-100C	12V, 0~8.0A	±2%	120mV	80%	99W
	5V, 0~3.0A	±3%	80mV		
NED-100D	24V, 0~4.0A	±2%	120mV	82%	99W
	5V, 0~3.0A	±3%	80mV		

35W — Triple Output

Model No.	Output	Tol.	R&N	Effi.	Max.
NET-35A	5V, 0.5~4.0A	±2%	80mV	78%	30W
	12V, 0.1~1.5A	±6%	120mV		
	-5V, 0.1~0.5A	±6%	120mV		
NET-35B	5V, 0.5~4.0A	±2%	80mV	79%	33W
	12V, 0.1~1.5A	±6%	120mV		
	-12V, 0.1~0.5A	±6%	120mV		
NET-35C	5V, 0.5~3.5A	±2%	80mV	79%	35W
	15V, 0.1~1.5A	±8%	150mV		
	-15V, 0.1~0.5A	±8%	150mV		
NET-35D	5V, 0.5~3.5A	±2%	80mV	79%	37W
	24V, 0.1~1.0A	±8%	200mV		
	12V, 0.1~1.0A	±8%	120mV		

50W — Triple Output

Model No.	Output	Tol.	R&N	Effi.	Max.
NET-50A	5V, 0.6~5.0A	±2%	80mV	76%	47W
	12V, 0.2~2.5A	±6%	120mV		
	-5V, 0.1~0.7A	±5%	120mV		
NET-50B	5V, 0.6~5.0A	±2%	80mV	78%	50W
	12V, 0.2~2.5A	±6%	120mV		
	-12V, 0.1~0.7A	±5%	120mV		
NET-50C	5V, 0.6~5.0A	±2%	80mV	78%	50W
	15V, 0.1~2.0A	±8%	150mV		
	-15V, 0.1~0.7A	±5%	150mV		
NET-50D	5V, 0.6~5.0A	±2%	80mV	79%	51W
	24V, 0.1~1.5A	±8%	200mV		
	12V, 0.1~1.5A	±6%	120mV		

75W — Triple Output

Model No.	Output	Tol.	R&N	Effi.	Max.
NET-75A	5V, 0.6~7.0A	±2%	80mV	77%	69W
	12V, 0.2~3.5A	±6%	120mV		
	-5V, 0.1~0.7A	±5%	120mV		
NET-75B	5V, 0.6~7.0A	±2%	80mV	78%	65W
	12V, 0.2~3.5A	±6%	120mV		
	-12V, 0.1~0.7A	±5%	120mV		
NET-75C	5V, 0.6~7.0A	±2%	80mV	78%	72W
	15V, 0.1~3.5A	±8%	150mV		
	-15V, 0.1~0.7A	±5%	150mV		
NET-75D	5V, 0.6~6.0A	±2%	80mV	80%	73W
	24V, 0.1~2.0A	±8%	200mV		
	12V, 0.1~1.5A	±6%	120mV		

200W Single Output Switching Power Supply

UL/CUL pending



- AC input selectable by switch
- Withstand 300VAC surge input for 5 seconds
- Protections: Short circuit / Overload Over voltage / Over temp.
- Cooling by free air convection
- Built-in constant current limiting circuit
- 100% full load burn-in test
- LED indicator for power on
- Low cost, high reliability
- 2 years warranty

AC input voltage range 90~132VAC / 180~264VAC selectable by switch
 DC adjustment range ±10% rated output range
 Overload protection 105%~135% constant current limiting, auto-recovery
 Over voltage protection 115%~145% rated output voltage
 Setup, rise, hold up time 1000ms, 50ms, 20ms at full load and 230VAC
 Withstand voltage I/P - O/P: 3kVAC, I/P-FG: 1.5kVAC, O/P-FG: 0.5kVAC
 Working temperature -20°C~60°C (refer to output derating curve)
 Safety standards Design refer to UL60950-1
 EMC standards Design refer to EN55022 class B
 Packing 0.93kg ; 12pcs / 12kg / 0.92CUFT

Model No.	Output	Tol.	R&N	Effi.
NES-200-3.3	3.3V, 0~40A	±2%	150mV	75%
NES-200-5	5V, 0~40A	±2%	150mV	79%
NES-200-7.5	7.5V, 0~26.5A	±2%	150mV	82%
NES-200-12	12V, 0~16.5A	±1%	150mV	83%
NES-200-15	15V, 0~13.3A	±1%	150mV	85%
NES-200-24	24V, 0~8.3A	±1%	150mV	87%
NES-200-27	27V, 0~7.4A	±1%	200mV	87%
NES-200-36	36V, 0~5.6A	±1%	240mV	87%
NES-200-48	48V, 0~4.2A	±1%	240mV	88%

350W Single Output Switching Power Supply

UL/CUL pending



- AC input selectable by switch
- Withstand 300VAC surge input for 5 seconds
- Protections: Short circuit / Overload Over voltage / Over temp.
- Forced air cooling by built-in DC fan
- Built-in fan ON/OFF control
- Built-in constant current limiting circuit
- 100% full load burn-in test
- LED indicator for power on
- Low cost, high reliability
- 2 years warranty

AC input voltage range 90~132VAC / 180~264VAC selectable by switch
 DC adjustment range ±10% rated output range
 Overload protection 105%~135% constant current limiting, auto-recovery
 Over voltage protection 115%~145% rated output voltage
 Setup, rise, hold up time 1000ms, 50ms, 20ms at full load and 230VAC
 Withstand voltage I/P - O/P: 3kVAC, I/P-FG: 1.5kVAC, O/P-FG: 0.5kVAC
 Working temperature -20°C~60°C (refer to output derating curve)
 Safety standards Design refer to UL60950-1
 EMC standards Design refer to EN55022 class B
 Packing 1.07kg ; 12pcs / 13.5kg / 0.92CUFT

Model No.	Output	Tol.	R&N	Effi.
NES-350-3.3	3.3V, 0~60A	±2%	150mV	75%
NES-350-5	5V, 0~60A	±2%	150mV	79%
NES-350-7.5	7.5V, 0~46A	±2%	150mV	82%
NES-350-12	12V, 0~29A	±1%	150mV	83%
NES-350-15	15V, 0~23.2A	±1%	150mV	85%
NES-350-24	24V, 0~14.6A	±1%	150mV	87%
NES-350-27	27V, 0~13A	±1%	200mV	87%
NES-350-36	36V, 0~9.7A	±1%	240mV	87%
NES-350-48	48V, 0~7.3A	±1%	240mV	88%

Enclosed-SE Series 200~450W Single Output



Features

- AC input selectable by switch
- Withstand 300VAC surge input for 5 seconds (except for SE-450)
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Forced air cooling by built-in DC fan (SE-350/450)
- Built-in fan ON-OFF control (SE-350)
- Built-in constant current limiting circuit (SE-200/350)
- Built-in remote sense function (SE-450)
- 100% full load burn-in test
- LED indicator for power on
- 2 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)

US (SE-200/350 pending)

Model No.	SE-200 NEW	SE-350 NEW	SE-450
AC input voltage range	90~132VAC / 180~264VAC selected by switch		
AC inrush current (max.)	Cold start, 55A at 230VAC		
DC adjustment range	±10% rated Output voltage		
Overload	Range	105% ~135%	105% ~150%
Protection	Type	Constant current limiting, auto-recovery	Shut down o/p voltage, re-power on to recover
Over voltage protection	115%~145%		
Withstand voltage	I/P - O/P: 3kVAC, I/P - FG: 1.5kVAC, O/P-FG: 0.5kVAC		
Working temperature	-20~+60°C (refer to output derating curve)		-10~+60°C (refer to output derating curve)
Safety standards	Design refer to UL60950-1		UL60950-1 approved
EMC standards	Design refer to EN55022 class B		
Connection	9P/9.5mm pitch terminal block with cover		9P/11mm pitch terminal block with cover
Dimension (LxWxH)(mm)	215x 115x 50		225x 124x 50
Case No.	912	912C	986
Packing	12pcs / 12kg	12pcs / 13.5kg	12pcs / 16kg

200W **NEW** SE-200

Model No.	Output	Tol.	R&N	Effi.
SE-200-3.3	3.3V, 0~40A	±2%	150mV	75%
SE-200-5	5V, 0~40A	±2%	150mV	79%
SE-200-7.5	7.5V, 0~26.5A	±2%	150mV	82%
SE-200-12	12V, 0~16.5A	±1%	150mV	83%
SE-200-15	15V, 0~13.3A	±1%	150mV	85%
SE-200-24	24V, 0~8.3A	±1%	150mV	87%
SE-200-27	27V, 0~7.4A	±1%	200mV	87%
SE-200-36	36V, 0~5.6A	±1%	240mV	87%
SE-200-48	48V, 0~4.2A	±1%	240mV	88%

450W SE-450

Model No.	Output	Tol.	R&N	Effi.
SE-450-3.3	3.3V, 0~75A	±3%	200mV	74%
SE-450-5	5V, 0~75A	±3%	200mV	78%
SE-450-12	12V, 0~37.5A	±1%	200mV	83%
SE-450-15	15V, 0~30A	±1%	200mV	84%
SE-450-24	24V, 0~18.8A	±1.5%	200mV	86%
SE-450-36	36V, 0~12.5A	±1%	200mV	86%
SE-450-48	48V, 0~9.4A	±1%	200mV	88%

350W **NEW** SE-350

Model No.	Output	Tol.	R&N	Effi.
SE-350-3.3	3.3V, 0~60A	±2%	150mV	75%
SE-350-5	5V, 0~60A	±2%	150mV	79%
SE-350-7.5	7.5V, 0~46A	±2%	150mV	82%
SE-350-12	12V, 0~29A	±1%	150mV	83%
SE-350-15	15V, 0~23.2A	±1%	150mV	85%
SE-350-24	24V, 0~14.6A	±1%	150mV	87%
SE-350-27	27V, 0~13A	±1%	200mV	87%
SE-350-36	36V, 0~9.7A	±1%	240mV	87%
SE-350-48	48V, 0~7.3A	±1%	240mV	88%



We provide specification, drawing, test report and more information, please visit our website — <http://www.meanwell.com>



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Features

- AC input selectable by switch (600~1000W)
- AC input 180~264VAC only (SE-1500)
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Forced air cooling by built-in DC fan
- Built-in remote sense function
- DC OK, remote ON/OFF control (SE-1000/1500)
- 100% full load burn-in test
- LED indicator for power on
- 2 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.	SE-600	SE-1000	SE-1500
AC input voltage range	90~132VAC / 180~264VAC selected by switch		180~264VAC
AC inrush current (max.)	Cold start, 60A at 230VAC	Cold start, 55A at 230VAC	Cold start, 60A at 230VAC
DC adjustment range	±10% rated Output voltage		
Overload	Range	105%~125%	
Protection	Type	Shut down o/p voltage, re-power on to recover	
Over voltage protection	115%~140%		
Withstand voltage	I/P - O/P: 3kVAC, I/P - FG: 1.5kVAC, 1 minute		
Working temperature	-20~+60°C (refer to output derating curve)		-20~+70°C (refer to output derating curve)
Safety standards	UL60950-1 approved		
EMC standards	Design refer to EN55022 class B		
Connection	Terminal block with cover for input and output (SE-1000/1500: copper pillars for output)		
Dimension (LxWxH)(mm)	247x 127x 63.5	278x 127x 63.5	278x 177.8x 63.5
Case No.	926A	935B	982A
Packing	6pcs / 13.4kg	6pcs / 16kg	4pcs / 14.2kg

600W SE-600

Model No.	Output	Tol.	R&N	Effi.
SE-600-5	5V, 0~100A	±2%	150mV	78%
SE-600-12	12V, 0~50A	±1%	150mV	83%
SE-600-15	15V, 0~40A	±1%	150mV	84%
SE-600-24	24V, 0~25A	±1%	150mV	87%
SE-600-27	27V, 0~22.2A	±1%	150mV	87%
SE-600-36	36V, 0~16.6A	±1%	200mV	87%
SE-600-48	48V, 0~12.5A	±1%	200mV	88%

1000W SE-1000

Model No.	Output	Tol.	R&N	Effi.
SE-1000-5	5V, 0~150A	±1%	150mV	81%
SE-1000-9	9V, 0~100A	±1%	150mV	84%
SE-1000-12	12V, 0~83.3A	±1%	150mV	85%
SE-1000-15	15V, 0~66.7A	±1%	150mV	86%
SE-1000-24	24V, 0~41.7A	±1%	200mV	88%
SE-1000-48	48V, 0~20.8A	±1%	200mV	89%

1500W SE-1500

Model No.	Output	Tol.	R&N	Effi.
SE-1500-5	5V, 0~300A	±2%	150mV	81%
SE-1500-12	12V, 0~125A	±1%	150mV	85%
SE-1500-15	15V, 0~100A	±1%	150mV	85%
SE-1500-24	24V, 0~62.5A	±1%	150mV	87%
SE-1500-27	27V, 0~55.6A	±1%	150mV	88%
SE-1500-48	48V, 0~31.3A	±1%	150mV	89%

1000W Quad Output with PFC Function

Low Cost Substitute of Modular Power

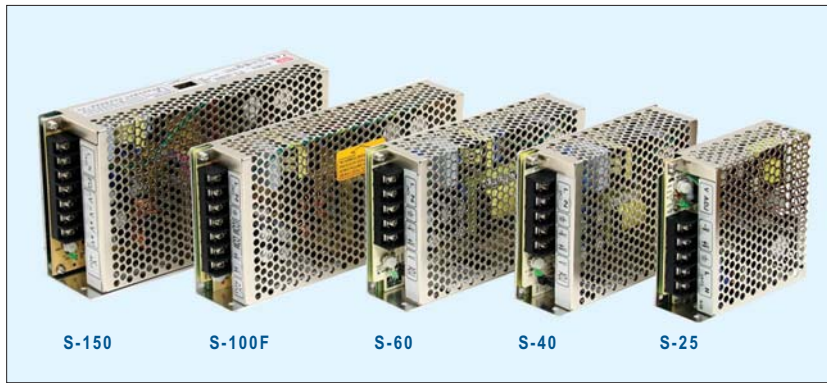
Available by Request



- Built-in external voltage control function 10~120% for CH3 & CH4
- Universal AC input / Full range
- Built-in active PFC function, PF > 0.95
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Built-in remote ON/OFF control for CH3, CH4, and the whole unit
- Isolated outputs with independent PWM control, no minimum load required
- Built-in remote sense for CH3 & CH4
- Output current monitor signal for CH3 & CH4
- Cooling by built-in DC fan
- DC output: 12V@8A / 5V@6A / 24V@12.5A / 24V@25A
- Design refer to UL60950-1, TUV EN60950-1
- Dimension(LxWxH): 278 x 177.8 x 63.5mm
- 3 years warranty

Enclosed-G2 Series

25~150W Single Output



■ Features

- Universal AC input / Full range (25~60W)
AC input selectable by switch (100~150W)
- Protections: Short circuit / Overload /
Over voltage
- Cooling by free air convection
- 100% full load burn-in test
- 2 years warranty

■ General Specification (Please refer to www.meanwell.com for detail spec.)

Model No.		S-25	S-40	S-60	S-100F	S-150
AC input voltage range		85~264VAC, 120~370VDC			88~132/176~264 VAC selectable by switch	
AC inrush current (max.)		Cold start, 25A at 230VAC	Cold start, 50A at 230VAC	Cold start, 40A at 230VAC		Cold start, 35A at 230VAC
DC adjustment range		±10% rated output voltage				
Overload protection	Range	105%~150% rated output power				
	Type	Hiccup mode, auto-recovery				Shut off, AC recycle to re-start
Over voltage protection	Range	115%~135% rated output voltage				115%~145%
	Type	Hiccup mode, auto-recovery				Shut off, AC recycle to re-start
Withstand voltage		I/P - O/P: 3kVAC, I/P - FG: 1.5kVAC, O/P - FG: 0.5kVAC, 1 minute				
Working temperature		-10 ~ +60°C (refer to output derating curve)				
Safety standards		UL1012, TUV EN60950-1 approved	UL1012, UL60950-1 TUV EN60950-1 approved	UL1012, UL60950-1,TUV EN60950-1, GB4943 approved, CSA60950-1(S-100F-24 only)		
EMC standards		EN55022 class B, EN61000-3-2,3, ENV50204, EN61000-4-2,3,4,5,6,8,11 (S-25/40: EN61000-4-2,3,4,5 only), GB9254 (S-60 / S-100F / S-150 only)				
Connection		5P / 9.5mm pitch terminal block			7P / 9.5mm pitch terminal block	
Dimension (LxWxH)(mm)		99x 97x 36	129x 98x 38	159x 97x 38	199x 98x 38	199x 110x 50
Case No.		905	903	901	902	906
Packing		45pcs/18kg	30pcs/13.9kg	24pcs/13.1kg	20pcs/14.2kg	16pcs/13.8kg

■ S-25 Series



Model No.	Output	Tol.	R&N	Effi.
S-25-5	5V, 0~5A	±2%	50mV	72%
S-25-12	12V, 0~2.1A	±1%	100mV	76%
S-25-15	15V, 0~1.7A	±1%	100mV	77%
S-25-24	24V, 0~1.1A	±1%	100mV	80%

■ S-40 Series



Model No.	Output	Tol.	R&N	Effi.
S-40-5	5V, 0~8A	±2%	75mV	72%
S-40-12	12V, 0~3.5A	±1%	100mV	76%
S-40-15	15V, 0~2.8A	±1%	100mV	76%
S-40-24	24V, 0~1.8A	±1%	100mV	78%

■ S-60 Series



Model No.	Output	Tol.	R&N	Effi.
S-60-5	5V, 0~12A	±2%	120mV	73%
S-60-12	12V, 0~5.0A	±1%	120mV	76%
S-60-15	15V, 0~4.0A	±1%	150mV	77%
S-60-24	24V, 0~2.5A	±1%	150mV	79%

■ S-100F Series



Model No.	Output	Tol.	R&N	Effi.
S-100F-5	5V, 0~20A	±2%	100mV	76%
S-100F-7.5	7.5V, 0~13.5A	±1%	125mV	78%
S-100F-12	12V, 0~8.5A	±1%	125mV	80%
S-100F-15	15V, 0~6.7A	±1%	125mV	81%
S-100F-24	24V, 0~4.5A	±1%	150mV	83%
S-100F-48	48V, 0~2.2A	±1%	150mV	84%

■ S-150 Series



Model No.	Output	Tol.	R&N	Effi.
S-150-5	5V, 0~30A	±2%	150mV	78%
S-150-7.5	7.5V, 0~20A	±1%	150mV	80%
S-150-9	9V, 0~16.7A	±1%	180mV	80%
S-150-12	12V, 0~12.5A	±1%	180mV	82%
S-150-13.5	13.5V, 0~11.2A	±1%	180mV	83%
S-150-15	15V, 0~10A	±1%	180mV	84%
S-150-24	24V, 0~6.5A	±1%	240mV	85%
S-150-27	27V, 0~5.6A	±1%	240mV	86%
S-150-48	48V, 0~3.2A	±1%	240mV	87%

✧ Another SC model with constant current limiting & temperature compensation circuit.

Enclosed-G2 Series 210~320W Single Output



Features

- AC input selectable by switch
- Protections: Short circuit / Overload / Over voltage / Over temperature
(S-250: Short circuit / Over voltage / Over temperature)
- Forced air cooling by built-in DC fan (except for S-210)
- Cooling fan ON/OFF auto control (S-320)
- 100% full load burn-in test
- LED indicator for power on
- 2 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.	S-210	S-250	S-320
AC input voltage range	90~132VAC / 180~264VAC selectable by switch		
AC inrush current (max.)	Cold start, 50A at 230VAC	Cold start, 45A at 230VAC	Cold start, 36A at 230VAC
DC adjustment range	±10% rated Output voltage		
Overload protection	Range	105%~150%	105%~135%
	Type	Hiccup mode, auto-recovery	
Over voltage protection	115%~145% rated output voltage	115%~135% rated output voltage	115%~145% rated output voltage
Withstand voltage	I/P - O/P: 3kVAC, I/P - FG: 1.5kVAC, 1 minute		
Working temperature	-20~+50°C	-10~+60°C	
Safety standards	UL60950-1 approved		
EMC standards	Design refer to EN55022 class B		
Connection	Terminal block with cover for input and output		
Dimension (LxWxH)(mm)	215x 115x 50	150x 140x 86	215x 115x 50
Case No.	912E	907	912
Packing	12pcs / 12.4kg	8pcs / 11.0kg	12pcs / 13.8kg

210W S-210

Model No.	Output	Tol.	R&N	Effi.
S-210-5	5V, 0~40A	±2%	80mV	79%
S-210-7.5	7.5V, 0~27A	±2%	100mV	82%
S-210-12	12V, 0~17A	±1%	120mV	83%
S-210-13.5	13.5V, 0~15A	±1%	120mV	84%
S-210-15	15V, 0~14A	±1%	120mV	85%
S-210-24	24V, 0~8.8A	±1%	200mV	87%
S-210-27	27V, 0~7.8A	±1%	200mV	87%
S-210-48	48V, 0~4.4A	±1%	200mV	87%

250W S-250

Model No.	Output	Tol.	R&N	Effi.
S-250-5	5V, 0~40A	±2%	80mV	74.0%
S-250-12	12V, 0~18A	±1%	120mV	79.0%
S-250-15	15V, 0~15A	±1%	120mV	80.0%
S-250-24	24V, 0~10A	±1%	120mV	81.5%
S-250-27	27V, 0~9.0A	±1%	150mV	82.0%
S-250-48	48V, 0~5.2A	±1%	200mV	82.0%

320W S-320

Model No.	Output	Tol.	R&N	Effi.
S-320-5	5V, 0~50A	±2%	150mV	77%
S-320-7.5	7.5V, 0~36A	±2%	150mV	80%
S-320-12	12V, 0~25A	±1%	150mV	82%
S-320-13.5	13.5V, 0~22A	±1%	150mV	83%
S-320-15	15V, 0~20A	±1%	150mV	84%
S-320-24	24V, 0~12.5A	±1%	150mV	86%
S-320-27	27V, 0~11A	±1%	200mV	86%
S-320-48	48V, 0~6.5A	±1%	240mV	87%

Available by Request

400W

Single Output with PFC Function

- Universal AC input / Full Range
- Built-in active PFC function
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Built-in constant current limiting circuit
- Forced air cooling by built-in DC fan
- Output models: 3.3V / 5V / 12V / 15V / 24V / 36V / 48V
- Dimension(LxWxH): 225x 124x 50mm
- 3 years warranty

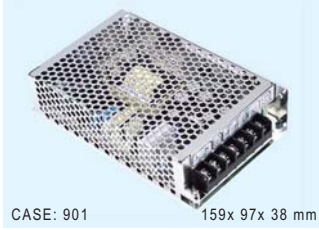


48hrs delivery—

We keep enough stock for 95% of standard models at our 2400m² warehouse. We can arrange prompt delivery within 48hrs.

60W Dual and Triple Output Switching Power Supply

UL US CB CE



- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
- Fixed switching frequency at 54kHz (D-60)
- Fixed switching frequency at 50kHz (T-60)
- Cooling by free air convection
- 100% full load burn-in test
- 2 years warranty

AC input voltage range 85~264VAC; 120~370VDC
 AC inrush current Cold start, 25A at 115VAC, 45A at 230VAC
 DC adjustment range CH1: -5~+10% rated output voltage
 Overload protection 105%~150% hiccup mode, auto-recovery
 Over voltage protection CH1: 115%~135% rated output voltage
 Setup, rise, hold up time ... 300ms, 50ms, 80ms at full load and 230VAC
 Withstand voltage I/P-O/P:3.0kVAC, I/P-FG:1.5kVAC, 1minute
 Working temperature 0~45°C@100%, -10°C@80%, 60°C@60% load
 Safety standards UL1012, UL60950-1, TUV EN60950-1 approved
 EMC standards EN55022 class B, EN61000-3-2,3
 EN61000-4-2,3,4,5,6,8,11, ENV50204
 Connection 7P/ 9.5mm pitch terminal block
 10P/ 7.62mm pitch terminal block (IT-60)
 Packing 0.54kg ; 24pcs / 13.8kg / 0.75CUFT (D-60)
 0.55kg ; 24pcs / 13.9kg / 0.75CUFT (ID-60)
 0.55kg ; 24pcs / 14.1kg / 0.75CUFT (T-60)
 0.51kg ; 24pcs / 13.2kg / 0.75CUFT (IT-60)

❖ Dual output

Model No.	Output	Tol.	R&N	Effi.	Max.
D-60A	5V, 0.3~6.0A	±2%	75mV	73%	56W
	12V, 0.2~4.0A	±6%	150mV		
D-60B	5V, 0.3~6.0A	±2%	75mV	76%	58W
	24V, 0.2~2.2A	±5%	150mV		

❖ Dual output (Note: 5V output is isolated from 24V)

Model No.	Output	Tol.	R&N	Effi.	Max.
ID-60B	5V, 0.3~6.0A	±2%	100mV	76%	58W
	24V, 0.2~2.2A	±8%	240mV		

❖ Triple output

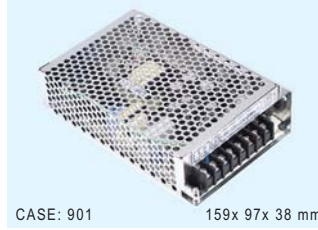
Model No.	Output	Tol.	R&N	Effi.	Max.
T-60A	5V, 0.5~7.0A	±2%	100mV	72%	58W
	12V, 0.2~3.5A	±6%	100mV		
	-5V, 0.0~1.0A	±6%	100mV		
T-60B	5V, 0.5~7.0A	±2%	100mV	72%	61W
	12V, 0.2~3.5A	±6%	100mV		
	-12V, 0.0~1.0A	±6%	100mV		
T-60C	5V, 0.5~7.0A	±2%	100mV	72%	63W
	15V, 0.2~3.0A	±6%	100mV		
	-15V, 0.0~1.0A	±6%	100mV		

❖ Triple output (Note: All outputs are isolated)

Model No.	Output	Tol.	R&N	Effi.	Max.
IT-60D	5V, 0.5~3.0A	±3%	80mV	76%	58W
	12V, 0.1~1.0A	±8%	120mV		
	24V, 0.2~2.0A	±8%	240mV		
IT-60F	5V, 0.5~3.0A	±3%	80mV	76%	58W
	15V, 0.1~1.0A	±8%	150mV		
	24V, 0.2~2.0A	±8%	240mV		

60W Quad Output Switching Power Supply

UL US CB CE



- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
- Approvals: UL / CUL / CE (TUV / CB also for Q-60)
- Cooling by free air convection
- 100% full load burn-in test
- 2 years warranty

AC input voltage range 90~264VAC; 127~370VDC
 DC adjustment range CH1: -5~+10% rated output voltage
 Overload protection 105%~150% hiccup mode, auto-recovery
 Over voltage protection CH1: 115%~135% rated output voltage
 Setup, rise, hold up time 800ms, 20ms, 70ms at full load and 230VAC (Q-60)
 300ms, 20ms, 80ms at full load and 230VAC (IQ-60)
 Withstand voltage I/P-O/P:3.0kVAC, I/P-FG:1.5kVAC, 1minute
 Working temperature -10~60°C (refer to output derating curve)
 Safety standards UL60950-1 approved for Q-60
 UL60950-1, TUV EN60950-1 approved for IQ-60
 EMC standards EN55022 class B, EN61000-3-2,3
 EN61000-4-2,3,4,5,6,8,11, ENV50204
 Connection 8P/ 8.25mm pitch terminal block for Q-60
 10P/ 7.62mm pitch terminal block for IQ-60
 Packing 0.56kg ; 24pcs / 14.4kg / 0.75CUFT (Q-60)
 0.55kg ; 24pcs / 14.2kg / 0.75CUFT (IQ-60)

❖ Quad output and UL / CUL / CE approved

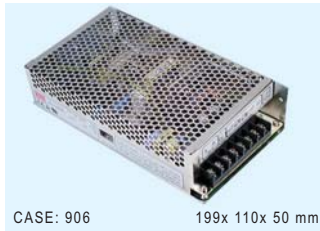
Model No.	Output	Tol.	R&N	Effi.	Max.
Q-60B	5V, 0.5~8.0A	±2%	100mV	70%	60W
	12V, 0.1~3.0A	±6%	120mV		
	-5V, 0.0~1.0A	±5%	100mV		
Q-60C	-12V, 0.0~1.0A	±5%	120mV		
	5V, 0.5~8.0A	±2%	100mV	72%	60W
	15V, 0.1~3.0A	+8%,-4%	120mV		
Q-60D	-5V, 0.0~1.0A	±5%	100mV		
	-15V, 0.0~1.0A	±5%	120mV		
	5V, 0.5~8.0A	±2%	100mV	75%	62W
	12V, 0.1~3.0A	±6%	120mV		
	24V, 0.1~1.5A	+8%,-4%	150mV		
	-12V, 0.0~1.0A	±5%	120mV		

❖ 5V, 24V are isolated from CH2 & CH3 and UL / CUL / TUV / CB / CE approved

Model No.	Output	Tol.	R&N	Effi.	Max.
IQ-60D	5V, 0.5~3.0A	±3%	80mV	76%	58W
	12V, 0.1~1.0A	±8%	120mV		
	-12V, 0.1~1.0A	±8%	120mV		
IQ-60F	24V, 0.2~2.0A	±8%	240mV		
	5V, 0.5~3.0A	±3%	80mV	76%	60W
	15V, 0.1~1.0A	±8%	150mV		
	-15V, 0.1~1.0A	±8%	150mV		
	24V, 0.2~2.0A	±8%	240mV		

► Note: Output isolated models can reduce noise interference from the system.

120W 2~4 Output Switching Power Supply



- AC input range selectable by switch
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- 100% full load burn-in test
- 2 years warranty

CASE: 906 199x 110x 50 mm

AC input voltage range 88~132VAC / 176~264VAC selectable by switch
 DC adjustment range CH1: -5~+10% rated output voltage
 Overload protection 105%~135% shut off, AC recycle to re-start
 Over voltage protection CH1: 115%~135% rated output voltage
 Setup, rise, hold up time ... 200ms, 50ms, 20ms at full load and 230VAC (D-120, Q-120); 800ms, 20ms, 20ms at full load and 230VAC(T-120)
 Withstand voltage I/P-O/P:3.0kVAC, I/P-FG:1.5kVAC, 1minute
 Working temperature 0~50°C@100%, -10°C@80%, 60°C@40% load (D-120) / 60% load (T-120, Q-120)
 Safety standards UL60950-1, TUV EN60950-1, GB4943 approved
 EMC standards EN55022 class B, EN61000-3-2,3, GB9254, EN61000-4-2,3,4,5,6,8,11, ENV50204
 Connection 8P/ 9.5mm pitch terminal block
 Packing 0.82kg ; 16pcs / 14.2kg / 0.95CUFT (D-120)
 0.83kg ; 16pcs / 14.2kg / 0.95CUFT (T-120)
 0.86kg ; 16pcs / 14.7kg / 0.95CUFT (Q-120)

❖ **Dual output**

Model No.	Output	Tol.	R&N	Effi.	Max.
D-120A	5V, 2.0~12A	±2%	60mV	78%	120W
	12V, 0.5~5.0A	±6%	120mV		
D-120B	5V, 2.0~10A	±2%	60mV	80%	126W
	24V, 0.4~4.0A	±7%	150mV		

❖ Triple output

Model No.	Output	Tol.	R&N	Effi.	Max.
T-120A	5V, 2.0~12A	±2%	80mV	77%	120W
	12V, 0.5~5.0A	±6%	120mV		
	-5V, 0.2~1.0A	±6%	80mV		
T-120B	5V, 2.0~12A	±2%	80mV	77%	121W
	12V, 0.5~5.0A	±6%	120mV		
	-12V, 0.2~1.0A	±6%	120mV		
T-120C	5V, 2.0~12A	±2%	80mV	76%	118W
	15V, 0.5~5.0A	+10%, -5%	150mV		
	-15V, 0.2~1.0A	+10%, -5%	150mV		
T-120D	5V, 2.0~12A	±2%	80mV	80%	118W
	12V, 0.2~5.0A	±6%	120mV		
	24V, 0.2~2.0A	±6%	180mV		

❖ Quad output

Model No.	Output	Tol.	R&N	Effi.	Max.
Q-120B	5V, 2.0~12A	±2%	80mV	77%	120W
	12V, 0.5~5.0A	±6%	120mV		
	-5V, 0.2~1.0A	±6%	80mV		
	-12V, 0.2~1.0A	±6%	120mV		
Q-120C	5V, 2.0~12A	±2%	80mV	76%	123W
	15V, 0.5~5.0A	+10%, -5%	150mV		
	-5V, 0.2~1.0A	±6%	80mV		
	-15V, 0.2~1.0A	+10%, -5%	150mV		
Q-120D	5V, 2.0~12A	±2%	80mV	80%	124W
	12V, 0.2~5.0A	±6%	120mV		
	24V, 0.2~2.0A	±6%	180mV		
	-12V, 0.2~1.0A	±6%	120mV		

250W Quad Output Switching Power Supply



- AC input range selectable by switch
- Protections: Short circuit / Overload / Over voltage
- Fixed switching frequency at 75kHz
- Forced air cooling by built-in DC fan
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

CASE: 907 150x 140x 86 mm

AC input voltage range 90~132VAC / 176~264VAC selectable by switch
 DC adjustment range CH1: -5~+10% rated output voltage
 Overload protection 105%~150% hiccup mode, auto-recovery
 Over voltage protection CH1: 115%~135% rated output voltage
 Setup, rise, hold up time ... 800ms, 50ms, 20ms at full load and 230VAC
 Working temperature -10~50°C@100%, 60°C@60% load
 Safety standards UL60950-1 approved
 Connection 9P/ 9.5mm pitch terminal block with cover
 Packing 1.4kg ; 8pcs / 11.5kg / 0.97CUFT

Model No.	Output	Tol.	R&N	Effi.	Max.
Q-250B	5V, 2.0~20A	±2%	80mV	73%	201W
	12V, 0.5~7.0A	+8%, -10%	120mV		
	-12V, 0.5~1.0A	±10%	120mV		
	-5V, 0.0~1.0A	±6%	50mV		
Q-250C	5V, 2.0~20A	±2%	80mV	74%	195W
	15V, 0.5~5.0A	±10%	150mV		
	-15V, 0.5~1.0A	±10%	150mV		
	-5V, 0.0~1.0A	±6%	50mV		
Q-250D	5V, 2.0~15A	±2%	80mV	78%	242W
	12V, 0.5~6.0A	+6%, -10%	120mV		
	24V, 0.5~5.0A	±8%	240mV		
	-12V, 0.0~1.0A	±6%	120mV		
Q-250F	5V, 2.0~15A	±2%	80mV	78%	245W
	15V, 0.5~5.0A	+6%, -10%	150mV		
	24V, 0.5~5.0A	±8%	240mV		
	-15V, 0.0~1.0A	±6%	150mV		

40W Triple Output Switching Power Supply



- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
- Fixed switching frequency at 40kHz
- Cooling by free air convection
- 100% full load burn-in test
- 2 years warranty

CASE: 903 129x 98x 38 mm

AC input voltage range 85~264VAC; 120~370VDC
 DC adjustment range CH1: -5~+10% rated output voltage
 Overload protection 105%~150% hiccup mode, auto-recovery
 Over voltage protection CH1: 115%~135% rated output voltage
 Withstand voltage I/P-O/P:3kVAC, I/P-FG:1.5kVAC, 1minute
 Working temperature 0~50°C@100%, -10°C@80%, 60°C@60% load
 Safety standards CSA60950-1 approved
 EMC standards EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, ENV50204
 Connection 7P/ 9.5mm pitch terminal block with cover
 Packing 0.44kg ; 30pcs / 14.7kg / 0.86CUFT

Model No.	Output	Tol.	R&N	Effi.	Max.
T-40A	5V, 0.6~5.0A	±2%	100mV	72%	42W
	12V, 0.2~3.0A	±6%	120mV		
	-5V, 0.1~1.0A	±8%	100mV		
T-40B	5V, 0.6~5.0A	±2%	100mV	72%	45W
	12V, 0.2~3.0A	±6%	120mV		
	-12V, 0.1~1.0A	±8%	120mV		
T-40C	5V, 0.6~5.0A	±2%	100mV	72%	45W
	15V, 0.2~2.0A	±6%	120mV		
	-15V, 0.1~1.0A	±6%	120mV		



Features

- Universal AC input / Full range
- Built-in active PFC function, PF>0.93 (SP-240, PF>0.95)
- Protections: Short circuit / Overload / Over voltage / Over temp.(SP-150 / 200 / 240)
- Cooling by free air convection (SP-75 / 100 / 150)
- Forced air cooling by built-in DC fan (SP-200 / 240)
- Optional remote ON/OFF control (SP-75~200)
- Built-in fan speed control (SP-200)
- Built-in fan ON/OFF control (SP-240)
- 100% full load burn-in test
- 3 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.		SP-75	SP-100	SP-150	SP-200	SP-240 
AC input voltage range		85~264VAC, 120~370VDC				88~264VAC, 124~370VDC
AC inrush current (max.)		Cold start, 30A at 230VAC		Cold start, 40A at 230VAC		
DC adjustment range		-5~+10% rated output voltage				±15% rated output voltage
Overload protection	Range	105%~150%				105%~135%
	Type	Constant current, auto-recovery				Hiccup mode, auto-recovery
Over voltage protection	Range	115%~135%	110%~135%			120%~150%
	Type	Shut off, AC recycle to re-start				
Withstand voltage		I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, O/P-FG: 0.5kVAC, 1 minute				
Working temperature		-10~+60℃		-10~+50℃	-10~+60℃	-20~+70℃
Safety standards		UL60950-1, TUV EN60950-1, GB4943(SP-200 only) approved				
EMC standards		EN55022 class B, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3, ENV50204				
Connection		5P / 9.5mm pitch	7P / 9.5mm pitch terminal block with cover			
Dimension (LxWxH)(mm)		179x99x33	179x99x45	199x99x50	199x99x50	190x93x50
Case No.		920A	915A	916A	916B	987A
Packing		20pcs/12.0kg	20pcs/14.3kg	20pcs/16.4kg	20pcs/17.9kg	18pcs/15.4kg

75W SP-75

Model No.	Output	Tol.	R&N	Effi.
SP-75-3.3	3.3V, 0~15A	±2%	80mV	68%
SP-75-5	5V, 0~15A	±2%	80mV	72%
SP-75-7.5	7.5V, 0~10A	±2%	80mV	74%
SP-75-12	12V, 0~6.3A	±2%	80mV	77%
SP-75-13.5	13.5V, 0~5.6A	±2%	80mV	78%
SP-75-15	15V, 0~5.0A	±2%	80mV	79%
SP-75-24	24V, 0~3.2A	±1%	100mV	80%
SP-75-27	27V, 0~2.8A	±1%	100mV	80%
SP-75-48	48V, 0~1.6A	±1%	100mV	80%

100W SP-100

Model No.	Output	Tol.	R&N	Effi.
SP-100-3.3	3.3V, 0~20.0A	±2%	100mV	70%
SP-100-5	5V, 0~20.0A	±2%	100mV	76%
SP-100-7.5	7.5V, 0~13.5A	±2%	100mV	78%
SP-100-12	12V, 0~8.50A	±2%	100mV	80%
SP-100-13.5	13.5V, 0~7.50A	±2%	100mV	80%
SP-100-15	15V, 0~6.70A	±2%	100mV	82%
SP-100-24	24V, 0~4.20A	±1%	150mV	84%
SP-100-27	27V, 0~3.80A	±1%	150mV	83%
SP-100-48	48V, 0~2.10A	±1%	250mV	82%

150W SP-150

Model No.	Output	Tol.	R&N	Effi.
SP-150-3.3	3.3V, 0~30.0A	±2%	100mV	67%
SP-150-5	5V, 0~30.0A	±2%	100mV	75%
SP-150-7.5	7.5V, 0~20.0A	±2%	100mV	79%
SP-150-12	12V, 0~12.5A	±2%	100mV	80%
SP-150-13.5	13.5V, 0~11.2A	±2%	100mV	80%
SP-150-15	15V, 0~10.0A	±2%	100mV	81%
SP-150-24	24V, 0~6.30A	±1%	150mV	83%
SP-150-27	27V, 0~5.60A	±1%	150mV	84%
SP-150-48	48V, 0~3.20A	±1%	250mV	84%

200W SP-200

Model No.	Output	Tol.	R&N	Effi.
SP-200-3.3	3.3V, 0~40.0A	±2%	100mV	65%
SP-200-5	5V, 0~40.0A	±2%	100mV	71%
SP-200-7.5	7.5V, 0~26.7A	±2%	100mV	76%
SP-200-12	12V, 0~16.7A	±2%	100mV	79%
SP-200-13.5	13.5V, 0~14.9A	±2%	100mV	80%
SP-200-15	15V, 0~13.4A	±2%	100mV	81%
SP-200-24	24V, 0~8.40A	±1%	150mV	83%
SP-200-27	27V, 0~7.50A	±1%	150mV	83%
SP-200-48	48V, 0~4.20A	±1%	250mV	84%

240W **NEW** SP-240

Model No.	Output	Tol.	R&N	Effi.
SP-240-5	5V, 0~45A	±2%	150mV	79%
SP-240-7.5	7.5V, 0~32A	±2%	150mV	83%
SP-240-12	12V, 0~20A	±1%	150mV	86%
SP-240-15	15V, 0~16A	±1%	150mV	86%
SP-240-24	24V, 0~10A	±1%	150mV	87%
SP-240-30	30V, 0~8.0A	±1%	150mV	88%
SP-240-48	48V, 0~5.0A	±1%	150mV	89%



48hrs delivery—

We keep enough stock for 95% of standard models at our 2400m² warehouse. We can arrange prompt delivery within 48hrs.



■ Features

- Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Forced air cooling by built-in DC fan
- Built-in remote sense function and ON/OFF control (SP-480/500/750)
- Built-in fan speed control (SP-320)
- Built-in fan ON/OFF control (SP-500)
- With PG/PF signal output (SP-750)
- 100% full load burn-in test
- 3 years warranty

■ General Specification (Please refer to www.meanwell.com for detail spec.)

Model No.	SP-320	SP-480	SP-500	SP-750
AC input voltage range	88~264VAC	85~264VAC	88~264VAC	90~264VAC
AC inrush current (max.)	Cold start, 40A at 230VAC		Cold Start, 36A at 230VAC	Cold Start, 45A at 230VAC
DC adjustment range	±10% rated output voltage			
Overload protection	Range	105%~135%	105%~145%	105%~135%
	Type	Hiccup mode, auto-recovery	Constant current limiting, auto-recovery	Fold back current limiting, auto-recovery
Over voltage protection	115%~145%	115%~140%		
Withstand voltage	I/P - O/P: 3kVAC, I/P - FG: 1.5kVAC, O/P - FG: 0.5kVAC, 1 minute			
Working temperature	-20~+65°C	-20~+60°C	-10~+50°C	-20~+60°C
Safety standards	UL60950-1, TUV EN65950-1 approved, GB4943 approved also for SP-320			
EMC standards	EN55022 class B, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3, ENV50204, EN61000-6-2(SP-320 / 480 / 750), GB9254 (SP-320 only)			
Connection	9P / 9.5mm pitch terminal block with cover	9P / 11mm pitch terminal block with cover	7+8P / 9.5mm pitch terminal block with cover	5P / 10mm pitch terminal block with cover for input; copper pillars for output
Dimension (LxWxH)(mm)	215x115x50	278x127x43	170x120x93	278x127x63.5
Case No.	912G	929	910	919A
Packing	12pcs / 14.0kg	6pcs / 11.3kg	8pcs / 15.5kg	6pcs / 18.4kg

■ SP-320 Series



Model No.	Output	Tol.	R&N	Effi.
SP-320-3.3	3.3V, 0~60.0A	±1%	150mV	74%
SP-320-5	5V, 0~55.0A	±2%	150mV	79%
SP-320-5PNC	5V, 0~55.0A	±2%	150mV	80%
SP-320-7.5	7.5V, 0~40.0A	±2%	150mV	83%
SP-320-12	12V, 0~25.0A	±1%	150mV	86%
SP-320-13.5	13.5V, 0~22.0A	±1%	150mV	86%
SP-320-15	15V, 0~20.0A	±1%	150mV	86%
SP-320-24	24V, 0~13.0A	±1%	150mV	87%
SP-320-27	27V, 0~11.7A	±1%	200mV	88%
SP-320-36	36V, 0~8.80A	±1%	220mV	87%
SP-320-48	48V, 0~6.70A	±1%	240mV	89%

※SP-320-5PNC with conformal coating and high ambient temperature operation ability is suitable for LED moving sign applications

■ SP-480 Series



Model No.	Output	Tol.	R&N	Effi.
SP-480-3.3	3.3V, 0~85A	±2.0%	80mV	73%
SP-480-5	5V, 0~85A	±2.0%	80mV	79%
SP-480-12	12V, 0~43A	±1.5%	120mV	85%
SP-480-15	15V, 0~35A	±1.5%	150mV	85%
SP-480-24	24V, 0~22A	±1.0%	150mV	87%
SP-480-48	48V, 0~11A	±1.0%	240mV	89%

■ SP-500 Series



Model No.	Output	Tol.	R&N	Effi.
SP-500-12	12V, 0~40A	±1%	240mV	84.0%
SP-500-13.5	13.5V, 0~36A	±1%	240mV	84.0%
SP-500-15	15V, 0~32A	±1%	240mV	83.0%
SP-500-24	24V, 0~20A	±1%	240mV	85.5%
SP-500-27	27V, 0~18A	±1%	200mV	86.5%
SP-500-48	48V, 0~10A	±1%	300mV	87.0%

■ SP-750 Series



Model No.	Output	Tol.	R&N	Effi.
SP-750-5	5V, 0~120A	±2%	120mV	81%
SP-750-12	12V, 0~62.5A	±1%	120mV	85%
SP-750-15	15V, 0~50.0A	±1%	120mV	87%
SP-750-24	24V, 0~31.3A	±1%	120mV	89%
SP-750-27	27V, 0~27.8A	±1%	120mV	89%
SP-750-48	48V, 0~15.7A	±1%	120mV	90%



Who can provide you better services and be a trustworthy partner in the power industry?

— "MEAN WELL" tries to be —

500W with PFC and Parallel Function

Parallel PFC c UL US CBCE



CASE: 919 278x 127x 63.5 mm

- Universal AC input / Full range
- PF>0.98@115VAC; >0.95@230VAC
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Current sharing up to 2000W (3+1)
- Built-in remote sense function
- Built-in remote ON/OFF control
- Forced air cooling by built-in DC fan
- Power good and fail signal output
- Open frame models available (option)
- 3 years warranty

AC input voltage range 90~264VAC; 127~370VDC
 DC adjustment range $\pm 10\%$ rated output voltage
 Overload protection 110%~125% constant current, auto-recovery
 Over voltage protection 115%~140% rated output voltage
 Setup, rise, hold up time 1500ms, 50ms, 24ms at full load and 230VAC
 Withstand voltage I/P-O/P:3kVAC, I/P-FG:1.5kVAC, 1 minute
 Working temperature -10~60°C (refer to output derating curve)
 Safety standards UL60950-1, TUV EN60950-1 approved
 EMC standards EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, ENV50204
 Packing 2.6kg ; 6pcs / 15.7kg / 0.89CUFT

Model No.	Output	Tol.	R&N	Effi.
PSP-500-5	5V, 0~80.0A	$\pm 2\%$	100mV	76%
PSP-500-12	12V, 0~41.5A	$\pm 1\%$	150mV	82%
PSP-500-13.5	13.5V, 0~37.0A	$\pm 1\%$	150mV	82%
PSP-500-15	15V, 0~33.0A	$\pm 1\%$	150mV	82%
PSP-500-24	24V, 0~20.8A	$\pm 1\%$	150mV	84%
PSP-500-27	27V, 0~18.5A	$\pm 1\%$	150mV	84%
PSP-500-48	48V, 0~10.5A	$\pm 1\%$	200mV	86%

600W with PFC and Parallel Function

Parallel PFC c UL US CBCE



CASE: 910A 170x 120x 93 mm

- Universal AC input / Full range
- PF>0.99@115VAC; >0.95@230VAC
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Forced air cooling by built-in DC fan
- Built-in remote sense and ON/OFF control
- With DC OK signal output
- Current sharing up to 2400W (3+1)
- 3 years warranty

AC input voltage range 88~264VAC; 124~370VDC
 AC inrush current Cold start, 20A at 115VAC, 40A at 230VAC
 DC adjustment range $\pm 10\%$ rated output voltage
 Overload protection 105%~135% constant current, auto-recovery
 Over voltage protection 115%~140% rated output voltage
 Withstand voltage I/P-O/P:3kVAC, I/P-FG:1.5kVAC, 1 minute
 Working temperature -20~60°C (refer to output derating curve)
 Safety standards UL60950-1, TUV EN60950-1 approved
 EMC standards EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, ENV50204
 Connection 7+8P/ 9.5mm pitch terminal block with cover
 Packing 1.9kg ; 8pcs / 15.5kg / 1.06CUFT

Model No.	Output	Tol.	R&N	Effi.
PSP-600-5	5V, 0~80.0A	$\pm 2\%$	180mV	79%
PSP-600-12	12V, 0~50.0A	$\pm 1\%$	240mV	84%
PSP-600-13.5	13.5V, 0~44.5A	$\pm 1\%$	240mV	85%
PSP-600-15	15V, 0~40.0A	$\pm 1\%$	240mV	85%
PSP-600-24	24V, 0~25.0A	$\pm 1\%$	240mV	86%
PSP-600-27	27V, 0~22.2A	$\pm 1\%$	240mV	86%
PSP-600-48	48V, 0~12.5A	$\pm 1\%$	300mV	87%

1000W with PFC and Parallel Function

Parallel PFC c UL US CBCE



CASE: 952B 295x 127x 41 mm

- 1U low profile
- Universal AC input / Full range
- PF>0.98@115VAC; >0.95@230VAC
- Protections: Short circuit / Overload / Over voltage / Over temp.
- High power density 10.7W/in³
- Output voltage can be trimmed between 40~110% of the rated output voltage
- Current sharing up to 4000W (3+1)
- DC OK signal
- Built-in remote sense and ON/OFF control
- Built-in 5V/0.5A auxiliary power
- 3 years warranty

AC input voltage range 90~264VAC; 127~370VDC
 DC adjustment range $\pm 10\%$ rated output voltage
 Overload protection 105%~125% constant current, auto-recovery
 Over voltage protection 115%~135% rated output voltage
 Setup, rise, hold up time 300ms, 50ms, 16ms at full load and 230VAC
 Withstand voltage I/P-O/P:3kVAC, I/P-FG:1.5kVAC, 1 minute
 Working temperature -20~50°C@100%, 60°C@60% load
 Safety standards UL60950-1, TUV EN60950-1 approved
 EMC standards EN55022 Class B conducted, EN61000-3-2,3, ENV50204, EN61000-4-2,3,4,5,6,8,11, EN61000-6-2
 Packing 1.95kg ; 6pcs / 12.7kg / 0.99CUFT

Model No.	Output	Tol.	R&N	Effi.
RSP-1000-12	12V, 0~60A	$\pm 1\%$	150mV	83%
RSP-1000-15	15V, 0~50A	$\pm 1\%$	150mV	85%
RSP-1000-24	24V, 0~40A	$\pm 1\%$	150mV	88%
RSP-1000-27	27V, 0~37A	$\pm 1\%$	150mV	88%
RSP-1000-48	48V, 0~21A	$\pm 1\%$	150mV	90%

1500W with PFC and Parallel Function

Parallel PFC c UL US CBCE



CASE: 943 278x 127x 83.5 mm

- Universal AC input / Full range
- PF>0.98@115VAC; >0.95@230VAC
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Using ZVS technology to reduce power dissipation
- High power density 8.3W/in³
- Built-in 12V / 0.1A auxiliary output
- Alarm signal output
- DC output voltage adjustment 70~100% by external resistor
- Active current sharing up to 6000W (3+1)
- Built-in remote sense function
- Built-in remote ON/OFF control
- Forced air cooling by built-in DC fan
- 3 years warranty

AC input voltage range 90~264VAC; 127~370VDC
 DC adjustment range -30~+10% rated output voltage
 Overload protection 105%~135% constant current limiting, shut off after 5 sec.
 Over voltage protection 115%~140% rated output voltage
 Setup, rise, hold up time 1500ms, 100ms, 10ms at full load and 230VAC
 Withstand voltage I/P-O/P:3kVAC, I/P-FG:1.5kVAC, 1 minute
 Working temperature -20~70°C (refer to output derating curve)
 Safety standards UL60950-1, TUV EN60950-1 approved
 EMC standards EN55022 class B conducted, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, ENV50204
 Packing 3.0kg ; 6pcs / 20.5kg / 1.54CUFT

Model No.	Output	Tol.	R&N	Effi.
RSP-1500-5	5V, 0~240A	$\pm 2\%$	150mV	80%
RSP-1500-12	12V, 0~125A	$\pm 1\%$	150mV	87%
RSP-1500-15	15V, 0~100A	$\pm 1\%$	150mV	87%
RSP-1500-24	24V, 0~63A	$\pm 1\%$	150mV	90%
RSP-1500-27	27V, 0~56A	$\pm 1\%$	150mV	90%
RSP-1500-48	48V, 0~32A	$\pm 1\%$	200mV	91%

2000W with PFC and Parallel Function



UL / CUL / TUV / CB / CE pending



CASE: 952B 295x 127x 41 mm

- Universal AC input / Full range
- Built-in active PFC function, PF>0.98
- Protections: Short circuit / Overload / Over voltage / Over temp. / Fan alarm
- Forced air cooling by built-in DC fan
- Output voltage can be trimmed between 20~110% of the rated output voltage
- High power density 21.4W/inch³
- Built-in 12V/0.8A & 5V/0.3A auxiliary output
- Current sharing up to 4 units
- Alarm signal output
- Built-in remote ON-OFF control
- Built-in remote sense function
- 3 years warranty

AC input voltage range 90~264VAC; 127~370VDC
 DC adjustment range $\pm 10\%$ rated output voltage
 Overload protection 105%~125% constant current limiting, auto-recovery
 Over voltage protection 120%~140% rated output voltage
 Setup, rise, hold up time 1500ms, 60ms, 16ms at full load and 230VAC
 Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, 1 minute
 Working temperature -25~70°C (refer to output derating curve)
 Safety standards Design refer to UL60950-1, TUV EN60950-1
 EMC standards EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, ENV50204

Model No.	Output	Tol.	R&N	Effi.
RSP-2000-12	12V, 0~100A	$\pm 1\%$	150mV	86.0%
RSP-2000-24	24V, 0~80A	$\pm 1\%$	200mV	90.5%
RSP-2000-48	48V, 0~42A	$\pm 1\%$	300mV	92.0%

2400W, 3000W with PFC and Parallel Function



CASE: 982B 278x 177.8x 63.5 mm

- AC input 180~264VAC only
- Built-in active PFC function, PF>0.95
- Protections: Short circuit / Overload / Over voltage / Over temp. / Fan alarm
- Forced air cooling by built-in DC with fan speed control function
- Output voltage can be trimmed between 20~110% of the rated output voltage
- High power density 12.5W/inch³ (2400W) High power density 15.6W/inch³ (3000W)
- Current sharing up to 3 units
- Alarm signal output (TTL signal & relay contact)
- Built-in 12V/0.1A auxiliary output for remote control
- Built-in remote ON-OFF control
- Built-in remote sense function
- 3 years warranty

AC input voltage range 180~264VAC; 254~370VDC
 DC adjustment range $\pm 10\%$ rated output voltage
 Overload protection 100%~112% constant current limiting, shut off after 5 sec., re-power on to recover (can adjust to continuous constant current limiting)
 Over voltage protection 115%~140% rated output voltage
 Setup, rise, hold up time 1000ms, 80ms, 10ms at full load and 230VAC
 Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, 1 minute
 Working temperature -20~70°C (refer to output derating curve)
 Safety standards UL60950-1, TUV EN60950-1 approved
 EMC standards EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, ENV50204

Model No.	Output	Tol.	R&N	Effi.
RSP-2400-12	12V, 0~166.7A	$\pm 1\%$	150mV	87.0%
RSP-2400-24	24V, 0~100A	$\pm 1\%$	150mV	90.0%
RSP-2400-48	48V, 0~50A	$\pm 1\%$	200mV	91.5%

Model No.	Output	Tol.	R&N	Effi.
RSP-3000-12	12V, 0~200A	$\pm 1\%$	150mV	86.0%
RSP-3000-24	24V, 0~125A	$\pm 1\%$	150mV	90.0%
RSP-3000-48	48V, 0~62.5A	$\pm 1\%$	200mV	90.5%

75W Triple Output with PFC Function



CASE: 920A 179x 99x 33 mm

- Universal AC input / Full range
- PF>0.98@115VAC; >0.95@230VAC
- Thin profile (33mm thickness)
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- Fixed switching frequency at 134kHz
- 3 years warranty

AC input voltage range 90~264VAC; 120~370VDC
 DC adjustment range CH1: -5~+10% rated output voltage
 Overload protection 105%~150% hiccup mode, auto-recovery
 Over voltage protection CH1: 115%~135% rated output voltage
 Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, 1minute
 Working temperature -10°C~60°C (refer to output derating curve)
 Safety standards UL60950-1, TUV EN60950-1 approved
 EMC standards EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, ENV50204
 Connection 8P/ 7.62mm pitch terminal block
 Packing 0.65kg ; 20pcs / 12.7kg / 0.64CUFT

Model No.	Output	Tol.	R&N	Effi.	Max.
TP-75A	5V, 1.5~10A	$\pm 3\%$	100mV	70%	74W
	12V, 0.2~4.0A	$\pm 4\%$	120mV		
	-5V, 0.0~0.6A	$\pm 8\%$	100mV		
TP-75B	5V, 1.5~10A	$\pm 3\%$	100mV	70%	76W
	12V, 0.2~4.0A	$\pm 4\%$	120mV		
	-12V, 0.0~0.6A	$\pm 8\%$	120mV		
TP-75C	5V, 1.5~10A	$\pm 3\%$	100mV	70%	75W
	15V, 0.2~3.0A	$\pm 4\%$	120mV		
	-15V, 0.0~0.6A	$\pm 8\%$	120mV		
TP-75D	5V, 1.5~10A	$\pm 3\%$	100mV	70%	76W
	24V, 0.2~2.5A	$\pm 4\%$	120mV		
	12V, 0.0~0.6A	$\pm 8\%$	120mV		
TP-7503	5V, 1.5~10A	$\pm 3\%$	100mV	70%	75W
	3.3V, 0.2~8.0A	$\pm 4\%$	50mV		
	12V, 0.0~0.6A	$\pm 8\%$	120mV		

320W Quad Output with PFC Function



CASE: 912I 215x 115x 50 mm

- Universal AC input / Full range
- PF>0.98@115VAC; >0.95@230VAC
- 20A peak load capability for 24V channel
- CH1, 2 can be adjusted from -5~+10%
- PG and PF signal output
- Built-in remote sense for CH1,2
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Forced air cooling by built-in DC fan
- 100% full load burn-in test
- 3 years warranty

AC input voltage range 90~264VAC; 127~370VDC
 DC adjustment range -5~+10% for CH1 and CH2 output
 Overload protection 105%~150% fold back current limiting, auto-recovery
 Over voltage protection 115%~135% rated output voltage for CH1 & CH2
 Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, 1minute
 Working temperature -10°C~50°C@100%, 70°C@40% load
 Safety standards UL60950-1, TUV EN60950-1 approved
 EMC standards EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, ENV50204
 Connection 9P/ 9.5mm pitch terminal block with cover
 Packing 1.2kg ; 12pcs / 15.4kg / 0.92CUFT

Model No.	Output	Tol.	R&N	Effi.	Max.
QP-320D	5V, 2.5~20A	$\pm 3\%$	100mV	83%	316W
	12V, 0.0~10A	$\pm 3\%$	150mV		
	24V, 0.2~5.0A	+10%, -6%	150mV		
	-12V, 0.2~2.0A	$\pm 10\%$	150mV		
	5V, 2.5~20A	$\pm 3\%$	100mV	83%	316W
QP-320F	15V, 0.0~10A	$\pm 3\%$	150mV		
	24V, 0.2~5.0A	+10%, -6%	150mV		
	-15V, 0.2~1.6A	$\pm 10\%$	150mV		

100W Triple and Quad Output with PFC Function



CASE: 916A 199x 99x 50 mm

- Universal AC input / Full range
- PF>0.98@115VAC; >0.94@230VAC
- Protections: Short circuit / Overload / Over voltage
- Over temp. protection (option)
- Cooling by free air convection
- CH4 polarity can be reversed for QP-100-3X and QP-100D/F (option)
- 3 years warranty

AC input voltage range 90~264VAC; 127~370VDC
 AC inrush current Cold start, 40A at 230VAC
 DC adjustment range CH1: -5%~+10% rated output voltage (CH1&2 for QP-100-3X and QP-100D/F)
 Overload protection 105%~150% hiccup mode, auto-recovery
 Over voltage protection 115%~135% for CH1 or CH1&2
 Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, 1 minute
 Working temperature -10~60°C (refer to output derating curve)
 Safety standards UL60950-1, TUV EN60950-1 approved
 EMC standards EN55022 class B, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3, ENV50204
 Connection 7.62mm pitch terminal block with cover
 Packing 0.83kg; 20pcs / 17.6kg / 1.28CUFT (TP-100)
 0.87kg; 20pcs / 18.4kg / 1.28CUFT (QP-100)

◆ 100W — Triple Output

Model No.	Output	Tol.	R&N	Effi.	Max.
TP-100A	5V, 3.0~15A	±3%	100mV	75%	101W
	12V, 0.4~5.0A	±7%	120mV		
	-5V, 0.0~1.0A	±6%	100mV		
TP-100B	5V, 3.0~15A	±3%	100mV	78%	105W
	12V, 0.4~5.0A	±6%	120mV		
	-12V, 0.0~1.0A	±6%	100mV		
TP-100C	5V, 3.0~15A	±3%	100mV	77%	104W
	15V, 0.4~4.0A	+10%,-6%	150mV		
	-15V, 0.0~1.0A	±6%	100mV		
TP-100D	5V, 3.0~15A	±3%	100mV	78%	105W
	24V, 0.4~3.0A	±8%	150mV		
	12V, 0.0~1.0A	±6%	100mV		

◆ 100W — Quad Output

Model No.	Output	Tol.	R&N	Effi.	Max.
QP-100B	5V, 2.0~10A	±3%	100mV	76%	101W
	12V, 0.3~4.0A	±6%	150mV		
	-12V, 0.15~1.0A	+10%,-6%	150mV		
QP-100C	-5V, 0.0~1.0A	±5%	100mV	77%	101W
	5V, 2.0~10A	±3%	100mV		
	15V, 0.3~3.0A	+6%,-10%	150mV		
QP-100D	-15V, 0.15~1.0A	±8%	150mV	78%	100W
	-5V, 0.0~1.0A	±5%	100mV		
	5V, 2.0~10A	±3%	120mV		
QP-100F	12V, 0.0~3.0A	±3%	150mV	78%	103W
	24V, 0.3~2.0A	±6%	200mV		
	-12V, 0.0~1.0A	±5%	150mV		
QP-100-3A	5V, 2.0~10A	±3%	100mV	74%	99W
	3.3V, 0.0~10A	±3%	100mV		
	12V, 0.3~3.0A	±6%	150mV		
QP-100-3B	-5V, 0.0~1.0A	±5%	150mV	74%	100W
	5V, 2.0~10A	±3%	100mV		
	3.3V, 0.0~10A	±3%	100mV		
QP-100-3C	12V, 0.3~3.0A	±6%	150mV	75%	101W
	-12V, 0.0~1.0A	±5%	150mV		
	5V, 2.0~10A	±3%	100mV		
QP-100-3D	3.3V, 0.0~10A	±3%	100mV	75%	105W
	15V, 0.3~2.0A	+8%,-6%	150mV		
	-15V, 0.0~1.0A	±5%	150mV		
	5V, 2.0~10A	±3%	100mV		
	3.3V, 0.0~10A	±3%	100mV		
	24V, 0.3~2.0A	±6%	150mV		
	-12V, 0.0~1.0A	±5%	150mV		

150W Triple and Quad Output with PFC Function



CASE: 916B 199x 99x 50 mm

- Universal AC input / Full range
- PF>0.98@115VAC; >0.94@230VAC
- Protections: Short circuit / Overload / Over voltage
- Over temp. protection (option)
- Forced air cooling by built-in DC fan
- CH4 polarity can be reversed for QP-150-3X and QP-150D/F (option)
- 3 years warranty

AC input voltage range 90~264VAC; 127~370VDC
 AC inrush current Cold start, 40A at 230VAC
 DC adjustment range CH1: -5%~+10% rated output voltage (CH1&2 for QP-150-3X and QP-150D/F)
 Overload protection 105%~150% hiccup mode, auto-recovery
 Over voltage protection 115%~135% for CH1 or CH1&2
 Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, 1 minute
 Working temperature -10~60°C (refer to output derating curve)
 Safety standards UL60950-1, TUV EN60950-1 approved
 EMC standards EN55022 class B, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3, ENV50204
 Connection 7.62mm pitch terminal block with cover
 Packing 0.90kg; 20pcs / 19.0kg / 1.28CUFT (TP-150)
 0.93kg; 20pcs / 19.6kg / 1.28CUFT (QP-150)

◆ 150W — Triple Output

Model No.	Output	Tol.	R&N	Effi.	Max.
TP-150A	5V, 2.0~20A	±3%	100mV	75%	150W
	12V, 0.4~7.0A	±8%	120mV		
	-5V, 0.0~1.0A	±6%	100mV		
TP-150B	5V, 2.0~20A	±3%	100mV	77%	148W
	12V, 0.4~7.0A	±8%	120mV		
	-12V, 0.0~1.0A	±6%	100mV		
TP-150C	5V, 2.0~20A	±3%	100mV	77%	152W
	15V, 0.4~6.0A	+10%,-6%	150mV		
	-15V, 0.0~1.0A	±6%	100mV		
TP-150D	5V, 2.0~20A	±3%	100mV	78%	154W
	24V, 0.4~4.0A	±8%	150mV		
	12V, 0.0~1.0A	±6%	100mV		

◆ 150W — Quad Output

Model No.	Output	Tol.	R&N	Effi.	Max.
QP-150B	5V, 3.0~15A	±3%	100mV	76%	150W
	12V, 0.4~5.0A	±6%	150mV		
	-12V, 0.3~2.0A	+10%,-6%	150mV		
QP-150C	-5V, 0.0~1.0A	±5%	100mV	77%	153W
	5V, 3.0~15A	±3%	100mV		
	15V, 0.4~4.0A	+6%,-10%	150mV		
QP-150D	-15V, 0.3~2.0A	±8%	150mV	78%	150W
	-5V, 0.0~1.0A	±5%	100mV		
	5V, 3.0~15A	±3%	120mV		
QP-150F	12V, 0.0~5.0A	±3%	150mV	78%	152W
	24V, 0.4~3.0A	±6%	200mV		
	-12V, 0.0~1.0A	±5%	150mV		
QP-150-3A	5V, 3.0~15A	±3%	100mV	73%	146W
	3.3V, 0.0~15A	±3%	100mV		
	12V, 0.4~5.0A	±6%	150mV		
QP-150-3B	-5V, 0.0~1.0A	±5%	150mV	75%	150W
	5V, 3.0~15A	±3%	100mV		
	3.3V, 0.0~15A	±3%	100mV		
QP-150-3C	12V, 0.4~5.0A	±6%	150mV	74%	152W
	-12V, 0.0~1.0A	±5%	150mV		
	5V, 3.0~15A	±3%	100mV		
QP-150-3D	3.3V, 0.0~15A	±3%	100mV	76%	150W
	15V, 0.4~5.0A	+8%,-6%	150mV		
	-15V, 0.0~1.0A	±5%	150mV		
	5V, 3.0~15A	±3%	100mV		
	3.3V, 0.0~15A	±3%	100mV		
	24V, 0.3~3.0A	±6%	150mV		
	-12V, 0.0~1.0A	±5%	150mV		

200W Quad Output with PFC Function



CASE: 912 215x 115x 50 mm

- Universal AC input / Full range
- PF>0.98@115VAC; >0.95@230VAC
- CH4 polarity can be reversed from "-" to "+" (option)
- CH1,2 can be adjusted from -5%~+10%
- PG and PF signal output (option)
- Built-in remote sense for CH1,2
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Forced air cooling by built-in DC fan
- 100% full load burn-in test
- 3 years warranty

AC input voltage range 90~264VAC; 127~370VDC
 AC inrush current Cold start, 30A at 230VAC
 DC adjustment range -5%~+10% for CH1 and CH2 output
 Overload protection 105%~150% constant current, auto-recovery
 Over voltage protection ... 115%~135% rated output voltage for CH1 & CH2
 Setup, rise, hold up time . 800ms, 50ms, 24ms at full load and 230VAC
 Power good/fail signal 10ms / 1ms (option)
 Withstand voltage I/P-O/P: 3kVAC, I/P-FG:1.5kVAC, 1minute
 Working temperature -10°C~60°C (refer to output derating curve)
 Safety standards UL60950-1, TUV EN60950-1 approved
 EMC standards EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, ENV50204
 Connection 9P/ 9.5mm pitch terminal block with cover
 Packing 1.2kg ; 12pcs / 15.4kg / 0.92CUFT

Model No.	Output	Tol.	R&N	Effi.	Max.
QP-200D	5V, 3.0~20A	±3%	100mV	75%	203W
	12V, 0.0~7.0A	±3%	150mV		
	24V, 0.4~6.0A	+10%,-6%	150mV		
	-12V, 0.0~1.0A	±6%	150mV		
QP-200F	5V, 3.0~20A	±3%	100mV	75%	203W
	15V, 0.0~6.0A	±3%	150mV		
	24V, 0.4~6.0A	+10%,-6%	150mV		
	-15V, 0.0~1.0A	±6%	150mV		
QP-200-3A	5V, 3.0~20A	±3%	100mV	72%	200W
	3.3V, 0.0~20A	±3%	100mV		
	12V, 0.5~8.0A	+8%,-10%	150mV		
	-5V, 0.0~1.0A	±6%	150mV		
QP-200-3B	5V, 3.0~20A	±3%	100mV	72%	205W
	3.3V, 0.0~20A	±3%	100mV		
	12V, 0.5~8.0A	+8%,-10%	150mV		
	-12V, 0.0~1.0A	±6%	150mV		
QP-200-3C	5V, 3.0~20A	±3%	100mV	72%	210W
	3.3V, 0.0~20A	±3%	100mV		
	15V, 0.5~7.0A	+10%,-6%	150mV		
	-15V, 0.0~1.0A	±6%	150mV		
QP-200-3D	5V, 3.0~20A	±3%	100mV	74%	204W
	3.3V, 0.0~20A	±3%	100mV		
	24V, 0.4~6.0A	+10%,-6%	150mV		
	-12V, 0.0~1.0A	±6%	150mV		
QP-200-3E	5V, 3.0~20A	±3%	100mV	74%	206W
	3.3V, 0.0~20A	±3%	100mV		
	24V, 0.4~6.0A	+10%,-6%	150mV		
	-15V, 0.0~1.0A	±6%	150mV		

375W Quad Output with PFC Function

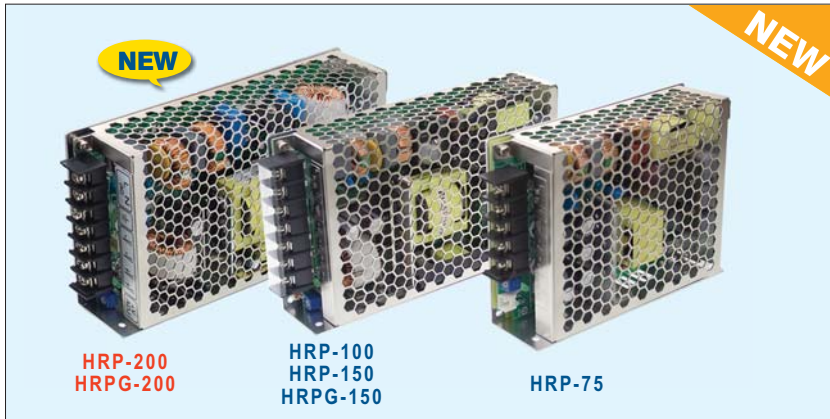


CASE: 927 280x 127x 63.5 mm

- Universal AC input / Full range
- PF>0.98@115VAC; >0.95@230VAC
- CH3 and CH4 are isolated from other outputs and polarity can be reversed
- CH1,2,3,4 adjustable from -5%~+10%
- All outputs are stable within ±1%
- No min. load requirement for CH 2,3,4
- Built-in power good and fail signal output
- Remote sense and ON/OFF control
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Forced air cooling by built-in DC fan
- 100% full load burn-in test
- 3 years warranty

AC input voltage range 85~264VAC; 120~370VDC
 AC inrush current Cold start, 45A at 230VAC
 DC adjustment range All outputs -5%~+10% for QP-375-5 series, ±10% for QP-375-24 series
 Overload protection 105%~135% hiccup mode, auto-recovery
 Over voltage protection CH1: 115%~135% rated output voltage
 Setup, rise, hold up time 800ms, 50ms, 36ms at full load and 230VAC
 Withstand voltage I/P-O/P: 3kVAC, I/P-FG:1.5kVAC, 1minute
 Working temperature -10°C~60°C (refer to output derating curve)
 Safety standards UL60950-1, TUV EN60950-1 approved
 EMC standards EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, ENV50204
 Connection 3P/ 9.5mm pitch terminal block for input
 10P/ 9.5mm pitch terminal block for output
 Packing 2.4kg ; 6pcs / 14.8kg / 1.45CUFT

Model No.	Output	Tol.	R&N	Effi.	Max.
QP-375-5A	5V, 3.5~40A	±1%	100mV	77%	378W
	12V, 0.0~16A	±1%	150mV		
	±12V, 0.0~6.0A	±1%	150mV		
	±12V, 0.0~3.0A	±1%	50mV		
QP-375-5B	5V, 3.5~40A	±1%	100mV	77%	357W
	12V, 0.0~16A	±1%	120mV		
	±12V, 0.0~6.0A	±1%	120mV		
	±5V, 0.0~3.0A	±1%	50mV		
QP-375-5C	5V, 3.5~40A	±1%	100mV	77%	378W
	12V, 0.0~16A	±1%	150mV		
	±15V, 0.0~4.0A	±1%	150mV		
	±15V, 0.0~4.0A	±1%	240mV		
QP-375-5D	5V, 3.5~40A	±1%	100mV	78%	378W
	12V, 0.0~16A	±1%	120mV		
	±12V, 0.0~6.0A	±1%	120mV		
	±24V, 0.0~3.0A	±1%	240mV		
QP-375-5E	5V, 3.5~40A	±1%	100mV	78%	378W
	12V, 0.0~16A	±1%	120mV		
	±24V, 0.0~4.0A	±1%	120mV		
	±24V, 0.0~3.0A	±1%	240mV		
QP-375-24B	24V, 1.0~10A	±1%	240mV	78%	386W
	5V, 0.0~16A	±1%	50mV		
	±12V, 0.0~4.0A	±1%	120mV		
	±12V, 0.0~4.0A	±1%	120mV		
QP-375-24C	24V, 1.0~10A	±1%	240mV	80%	410W
	5V, 0.0~10A	±1%	50mV		
	±15V, 0.0~4.0A	±1%	150mV		
	±15V, 0.0~4.0A	±1%	150mV		



Features

- Universal AC input / Full range
- Withstand 300VAC surge input for 5 seconds
- Built-in active PFC function
- Protections:
Short circuit / Overload / Over voltage / Over temp. (optional for HRP-75 / HRP-100)
- Built-in constant current limiting circuit
- Built-in remote sense function (HRP□-150 / 200)
- No load power consumption<0.5W (except for HRP-150/200)
- Built-in remote ON/OFF control (except for HRP-150 / 200)
- Built-in 5V / 0.3A standby output (HRPG-150 / 200)
- Cooling by free air convection
- 1U low profile
- LED indicator for power on
- 100% full load burn-in test
- 5 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.		HRP-75 	HRP-100 	HRP□-150	HRP□-200 
AC input voltage range		85~264VAC, 120~370VDC			
AC inrush current (max.)		Cold start, 65A at 230VAC		Cold start, 70A at 230VAC	
DC adjustment range		-5%~+10% rated output voltage		±15% rated output voltage	
Overload protection	Range	105%~135%			
	Type	Constant current limiting, auto-recovery			
Over voltage protection		115%~145%			
Withstand voltage		I/P - O/P: 3kVAC, I/P - FG: 1.5kVAC, O/P - FG: 0.5kVAC			
Working temperature		-20~+70°C (refer to output derating curve)	-30~+60°C	-30~+70°C	
Safety standards		UL60950-1, TUV EN60950-1 approved			
EMC standards		EN55022 class B, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3, ENV50204, EN61000-6-2 heavy industry level			
Connection		5P / 9.5mm pitch terminal block with cover		7P / 9.5mm pitch terminal block with cover	
Dimension (LxWxH)(mm)		129x98x38		159x97x38	
Case No.		903D		902E	

75W **NEW** HRP-75

Model No.	Output	Tol.	R&N	Effi.
HRP-75-3.3	3.3V, 0~15A	±2.5%	80mV	77.0%
HRP-75-5	5V, 0~15A	±2.5%	80mV	82.5%
HRP-75-7.5	7.5V, 0~10A	±2.5%	100mV	84.0%
HRP-75-12	12V, 0~6.3A	±1.5%	120mV	87.0%
HRP-75-15	15V, 0~5A	±1.5%	150mV	88.0%
HRP-75-24	24V, 0~3.2A	±1.5%	150mV	88.5%
HRP-75-36	36V, 0~2.1A	±1.5%	200mV	89.0%
HRP-75-48	48V, 0~1.6A	±1.5%	240mV	89.0%

150W **NEW** HRP□-150

Model No.	Output	Tol.	R&N	Effi.
HRP□-150-3.3	3.3V, 0~30A	±2.5%	80mV	78.5%
HRP□-150-5	5V, 0~26A	±2.5%	80mV	85.0%
HRP□-150-7.5	7.5V, 0~20A	±2.5%	100mV	87.0%
HRP□-150-12	12V, 0~13A	±1.5%	120mV	88.0%
HRP□-150-15	15V, 0~10A	±1.5%	150mV	88.0%
HRP□-150-24	24V, 0~6.5A	±1.5%	150mV	88.0%
HRP□-150-36	36V, 0~4.3A	±1.5%	200mV	89.0%
HRP□-150-48	48V, 0~3.3A	±1.5%	240mV	89.0%

□=blank, G; blank: basic function, G: with 5Vsb & no load <0.5W

100W **NEW** HRP-100

Model No.	Output	Tol.	R&N	Effi.
HRP-100-3.3	3.3V, 0~20A	+2.5, -3.5%	80mV	78.0%
HRP-100-5	5V, 0~17A	±2.5%	80mV	83.0%
HRP-100-7.5	7.5V, 0~13.5A	±2.5%	100mV	84.0%
HRP-100-12	12V, 0~8.5A	±1.5%	120mV	87.5%
HRP-100-15	15V, 0~7A	±1.5%	150mV	88.0%
HRP-100-24	24V, 0~4.5A	±1.5%	150mV	88.5%
HRP-100-36	36V, 0~2.9A	±1.5%	200mV	89.0%
HRP-100-48	48V, 0~2.2A	±1.5%	240mV	90.0%

200W **NEW** HRP□-200

Model No.	Output	Tol.	R&N	Effi.
HRP□-200-3.3	3.3V, 0~40A	±2%	80mV	80.0%
HRP□-200-5	5V, 0~35A	±2%	90mV	84.0%
HRP□-200-7.5	7.5V, 0~26.7A	±2%	100mV	86.0%
HRP□-200-12	12V, 0~16.7A	±1%	120mV	88.0%
HRP□-200-15	15V, 0~13.4A	±1%	150mV	88.0%
HRP□-200-24	24V, 0~8.4A	±1%	150mV	88.0%
HRP□-200-36	36V, 0~5.7A	±1%	250mV	89.0%
HRP□-200-48	48V, 0~4.3A	±1%	250mV	89.0%

□=blank, G; blank: basic function, G: with 5Vsb & no load <0.5W



Features

- Universal AC input / Full range
- Withstand 300VAC surge input for 5 seconds
- Built-in active PFC function
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Built-in constant current limiting circuit
- Built-in remote sense function
- Built-in DC OK signal
- No load power consumption<0.5W (HRPG-300 / 450)
- No load power consumption<0.75W (HRPG-600)
- Built-in remote ON/OFF control & 5V / 0.3A standby output (HRPG series)
- Built-in current sharing (HRPG-600-24 / 36 / 48)
- Forced air cooling by built-in DC fan
- 1U low profile (HRP□-300 / 450)
- 100% full load burn-in test
- 5 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.	HRP□-300	HRP□-450 NEW	HRP□-600
AC input voltage range	85~264VAC, 120~370VDC		
AC inrush current (max.)	Cold start, 70A at 230VAC		
DC adjustment range	±15% rated output voltage		
Overload Protection	Range: 105%~135% Type: Constant current limiting, auto-recovery		
Over voltage protection	115%~145%		
Withstand voltage	I/P - O/P: 3kVAC, I/P - FG: 1.5kVAC, O/P - FG: 0.5kVAC, 1 minute		
Working temperature	-30~+70°C (refer to output derating curve)		
Safety standards	UL60950-1, TUV EN60950-1 approved		
EMC standards	EN55022 class B, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3, ENV50204, EN61000-6-2 heavy industry level		
Connection	7P / 11mm pitch terminal block with cover	3+6P / 10&11mm pitch terminal block with cover	
Dimension (LxWxH)(mm)	199x 105x 41	218x 105x 41	218x 105x 63.5
Case No.	980A	995A	977A

300W HRP□-300

Model No.	Output	Tol.	R&N	Effi.
HRP□-300-3.3	3.3V, 0~60A	±2.5%	80mV	80%
HRP□-300-5	5V, 0~60A	±2.0%	90mV	82%
HRP□-300-7.5	7.5V, 0~40A	±2.0%	100mV	86%
HRP□-300-12	12V, 0~27A	±1.0%	120mV	88%
HRP□-300-15	15V, 0~22A	±1.0%	150mV	88%
HRP□-300-24	24V, 0~14A	±1.0%	150mV	87%
HRP□-300-36	36V, 0~9A	±1.0%	250mV	88%
HRP□-300-48	48V, 0~7A	±1.0%	250mV	89%

□=blank, G; blank: basic function, G: with 5Vsb & no load <0.5W

600W HRP□-600

Model No.	Output	Tol.	R&N	Effi.
HRP□-600-3.3	3.3V, 0~120A	±2%	100mV	78.5%
HRP□-600-5	5V, 0~120A	±2%	100mV	82.0%
HRP□-600-7.5	7.5V, 0~80A	±2%	100mV	87.0%
HRP□-600-12	12V, 0~53A	±1%	120mV	88.0%
HRP□-600-15	15V, 0~43A	±1%	150mV	88.0%
HRP□-600-24	24V, 0~27A	±1%	150mV	88.0%
HRP□-600-36	36V, 0~17.5A	±1%	200mV	89.0%
HRP□-600-48	48V, 0~13A	±1%	240mV	89.0%

□=blank, G; blank: basic function, G: with 5Vsb & no load <0.75W

450W **NEW** HRP□-450

Model No.	Output	Tol.	R&N	Effi.
HRP□-450-3.3	3.3V, 0~90A	±2%	80mV	80%
HRP□-450-5	5V, 0~90A	±2%	80mV	82%
HRP□-450-7.5	7.5V, 0~60A	±2%	100mV	86%
HRP□-450-12	12V, 0~37.5A	±1%	120mV	88%
HRP□-450-15	15V, 0~30A	±1%	150mV	88%
HRP□-450-24	24V, 0~18.8A	±1%	150mV	88%
HRP□-450-36	36V, 0~12.5A	±1%	200mV	88%
HRP□-450-48	48V, 0~9.5A	±1%	240mV	89%

□=blank, G; blank: basic function, G: with 5Vsb & no load <0.5W



We are a TQM (Total Quality Management) company and ISO-9001 certified since 1994.



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We have authorized distributors all over the world. They have sufficient stock for your prompt delivery. Also they can offer you technical support & RMA services. Please contact your local distributors for more product information. You can also contact us at info@meanwell.com for information of your local distributors.



Features

- Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Output voltage programmable from 20~110% by 1~5.5VDC external control signal
- Forced air cooling by built-in DC fan with fan speed control (except for SPV-150)
- Cooling by free air convection (SPV-150)
- Built-in remote sense and ON/OFF control (SPV-600/1500)
- Built-in 12V/0.1A auxiliary output and current sharing up to 4500W (SPV-1500)
- 3 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)

Model No.	SPV-150	SPV-300	SPV-600 Under Development	SPV-1500
AC input voltage range	88~264VAC, 124~370VDC			90~264VAC, 127~370VDC
AC inrush current (max.)	Cold start, 40A at 230VAC			Cold Start, 60A at 230VAC
DC adjustment range	-15%~+10% rated output voltage		±5% rated output voltage	
Overload protection	Range	105%~150%	105%~135%	
	Type	Constant current limiting, auto-recovery		
Over voltage protection	115%~140%			120%~140%
Withstand voltage	I/P - O/P: 3kVAC, I/P - FG: 1.5kVAC, O/P - FG: 0.5kVAC, 1 minute			
Working temperature	-20~+65°C (refer to output derating curve)		-20~+60°C	-20~+70°C
Safety standards	UL60950-1, TUV EN60950-1 approved (SPV-600 pending)			
EMC standards	EN55022 class B, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3, ENV50204, EN55024, light industry level, criteria A			
Connection	9P / 9.5mm pitch terminal block with cover		15P / 9.5mm pitch terminal block with cover	3P / 13mm pitch terminal block with cover for input; copper pillars for output
Dimension (LxWxH)(mm)	215x115x50		170x120x93	278x127x83.5
Case No.	912L		910A	943A
Packing	12pcs / 14.0kg		8pcs / 15.5kg	6pcs / 16.6kg

SPV-150 Series



Model No.	Output	Tol.	R&N	Effi.
SPV-150-12	12V, 0~12.5A	±1%	150mV	82%
SPV-150-24	24V, 0~6.25A	±1%	150mV	83%
SPV-150-48	48V, 0~3.125A	±1%	240mV	83%

SPV-600 Series

Under Development UL / CUL / TUV / CE pending

Model No.	Output	Tol.	R&N	Effi.
SPV-600-12	12V, 0~50A	±1%	240mV	84%
SPV-600-24	24V, 0~25A	±1%	240mV	86%
SPV-600-48	48V, 0~12.5A	±1%	300mV	87%

SPV-300 Series



Model No.	Output	Tol.	R&N	Effi.
SPV-300-12	12V, 0~25A	±1%	150mV	83.5%
SPV-300-24	24V, 0~12.5A	±1%	150mV	85.0%
SPV-300-48	48V, 0~6.25A	±1%	240mV	86.5%

SPV-1500 Series



Model No.	Output	Tol.	R&N	Effi.
SPV-1500-12	12V, 0~125A	±1%	150mV	86.5%
SPV-1500-24	24V, 0~63A	±1%	150mV	90.0%
SPV-1500-48	48V, 0~32A	±1%	200mV	90.0%



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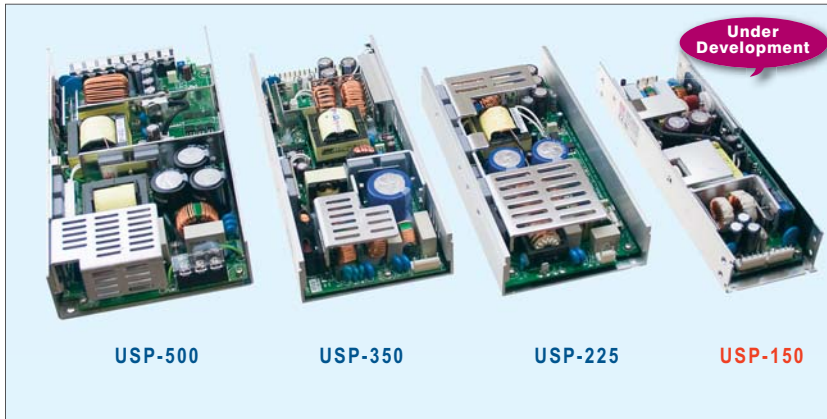
48hrs delivery—

We keep enough stock for 95% of standard models at our 2400m² warehouse. We can arrange prompt delivery within 48hrs.



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Features

- Universal AC input / Full range
- Built-in active PFC
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Output wattage:
 - USP-150: 150W convection
 - USP-225: 150W convection, 225W with 18CFM forced air
 - USP-350: 300W convection, 350W with 23.5CFM forced air
 - USP-500: 400W convection, 500W with 23.5CFM forced air
- High power density: 5.5W/in³ (USP-150); 4.7W/in³ (USP-225); 6.32W/in³ (USP-350); 6.2W/in³ (USP-500)
- U-bracket low profile: 33mm(USP-150); 38mm(USP-225/300); 41mm(USP-500)
- Built-in remote ON/OFF control, remote sense, DC OK signal (USP-500)
- Optional current sharing(1+1) for 24&48V models(USP-500)
- 3 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.		USP-150 Under Development	USP-225	USP-350	USP-500
AC input voltage range		90~305VAC, 127~431VDC	90~264VAC, 127~370VDC		
AC inrush current (max.)		Cold start, 65A at 230VAC	15A at 115VAC, 30A at 230VAC	22A at 115VAC, 44A at 230VAC	30A at 115VAC, 50A at 230VAC
DC adjustment range		±10% rated output voltage			
Overload protection	Range	130%~170%	105%~150%	105%~130%	
	Type	Hiccup mode, auto-recovery	Constant current limiting, auto-recovery		Constant current, shut off after 3 sec.
Over voltage protection	Range	110%~135%	110%~135%	110%~140%	115%~135%
	Type	Hiccup mode, auto-recovery	Shut off, AC recycle to re-start	Hiccup mode, auto-recovery	Shut off, AC recycle to re-start
Withstand voltage		I/P - O/P: 3.75kVAC, I/P - FG:1.5kVAC, O/P - FG: 0.5kVAC, 1 minute	I/P - O/P: 3kVAC, I/P - FG: 1.5kVAC, O/P - FG: 0.5kVAC, 1 minute		
Working temperature		-40~+70°C	-20~+65°C	-10~+65°C	-20~+70°C
Vibration		10~500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes	10~500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes		
Safety standards		Design refer to UL60950-1, TUV EN60950-1, UL8750, EN61347-2-13	UL60950-1, TUV EN60950-1 approved		
EMC standards		EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, ENV50204; EN55015 and EN61547, EN61000-6-2 (USP-150 only)			
Connection		5+5Px2/3.9mm pitch, JST: B5P/B5Px2-VH	20P/2.54mm pitch, Molex 39-29-9206	5+9Px2/3.96mm pitch, JST: B5P/B9Px2-VH	3+8P/8.5mm pitch terminal block with cover
Dimension (LxWxH)(mm)		210x 67.4x 33	202x 101.5x 38	235.2x 101.5x 38	254x 127x 41

150W

Under Development USP-150

Model No.	Output	Tol.	R&N	Effi.
USP-150-3.3	3.3V, 0~30.0A	±2%	100mV	81.0%
USP-150-5	5V, 0~26.0A	±2%	100mV	87.0%
USP-150-12	12V, 0~12.5A	±2%	100mV	91.5%
USP-150-15	15V, 0~10.0A	±2%	100mV	91.5%
USP-150-24	24V, 0~6.30A	±2%	150mV	93.0%
USP-150-36	36V, 0~4.20A	±2%	200mV	93.0%
USP-150-48	48V, 0~3.20A	±2%	200mV	93.0%

225W

USP-225

Model No.	Output	Tol.	R&N	Effi.
USP-225-3.3	3.3V, 0~40.0A	±2%	100mV	72%
USP-225-5	5V, 0~40.0A	±2%	100mV	77%
USP-225-12	12V, 0~18.7A	±2%	100mV	83%
USP-225-15	15V, 0~15.0A	±2%	100mV	84%
USP-225-24	24V, 0~9.40A	±2%	150mV	85%
USP-225-48	48V, 0~4.70A	±2%	250mV	86%

350W

USP-350

Model No.	Output	Tol.	R&N	Effi.
USP-350-3.3	3.3V, 0~70.0A	±2%	80mV	78%
USP-350-5	5V, 0~70.0A	±2%	80mV	84%
USP-350-12	12V, 0~29.2A	±2%	100mV	88%
USP-350-15	15V, 0~23.4A	±2%	100mV	88%
USP-350-24	24V, 0~14.6A	±2%	150mV	88%
USP-350-48	48V, 0~7.30A	±2%	150mV	89%

500W

USP-500

Model No.	Output	Tol.	R&N	Effi.
USP-500-5	5V, 0~80.0A	±2%	80mV	85%
USP-500-12	12V, 0~42.0A	±2%	100mV	90%
USP-500-15	15V, 0~33.5A	±2%	100mV	90%
USP-500-24	24V, 0~21.0A	±2%	150mV	89%
USP-500-48	48V, 0~10.5A	±2%	150mV	90%



Features

- Universal AC input / Full range
- Installed on DIN rail TS35 / 7.5 or 15
- Protections: Short circuit / Overload / Over voltage
- No load power consumption <0.75W (<1W for MDR-100)
- LED indicator for power on
- NEC class 2 / LPS compliant (selected models)
- Built-in active PFC and over temp. protection (MDR-100)
- DC OK signal output (MDR-10/20)
- DC OK relay contact (MDR-40/60/100)
- Cooling by free air convection
- 100% full load burn-in test
- 3 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)

Model No.	MDR-10	MDR-20	MDR-40	MDR-60	MDR-100
AC input voltage range	85~264VAC, 120~370VDC				
AC inrush current	Cold start, 35A at 115VAC, 70A at 230VAC	Cold start, 20A at 115VAC, 40A at 230VAC	Cold start, 30A at 115VAC, 60A at 230VAC		
DC adjustment range	Fixed	±10% rated output voltage	0 ~ +20% rated output voltage		
Overload protection	>105% hiccup mode, auto-recovery	105%~160% constant current limiting, auto-recovery	105%~150% constant current limiting, auto-recovery		
Over voltage protection	115%~135% rated output voltage		125%~150% rated output voltage		
Setup, rise, hold up time	500ms, 30ms, 50ms at full load and 230VAC				3000ms, 50ms, 50ms
Withstand voltage	I/P-O/P:3kVAC, I/P-FG:1.5kVAC, 1minute				
Working temperature	-20~+70℃ (refer to output derating curve)				-10~+60℃
DC OK signal	Open collector	Open collector	Relay contact		
Safety standards	UL508, TUV EN60950-1, UL60950-1(MDR-40/60) approved, NEC class 2 compliant (MDR-10/20, MDR-40-12/24/48, MDR-60-12/24/48, MDR-100-24/48)				
EMC standards	EN55022 class B, EN61000-3-2,-3, ENV50204, EN61000-4-2,3,4,5,6,8,11, EN61204-3, EN61000-6-2 heavy industry level (MDR-40/60/100)				
Connection	I/P: 3 poles, O/P: 3 poles screw DIN terminal		IP: 3 poles, O/P: 6 poles screw DIN terminal		
Dimension (WxHxD)(mm)	22.5x 90x 100		40x 90x 100		55x 90x 100
Packing	72pcs / 13.2kg	72pcs / 14.7kg	42pcs / 13.6kg	42pcs / 14.8kg	30pcs / 13.6kg

MDR-10 Series



Model No.	Output	Tol.	R&N	Effi.
MDR-10-5	5V, 0~2.0A	±5%	80mV	77%
MDR-10-12	12V, 0~0.84A	±3%	120mV	81%
MDR-10-15	15V, 0~0.67A	±3%	120mV	81%
MDR-10-24	24V, 0~0.42A	±2%	150mV	84%

MDR-20 Series



Model No.	Output	Tol.	R&N	Effi.
MDR-20-5	5V, 0~3.0A	±2%	80mV	76%
MDR-20-12	12V, 0~1.67A	±1%	120mV	80%
MDR-20-15	15V, 0~1.34A	±1%	120mV	81%
MDR-20-24	24V, 0~1.00A	±1%	150mV	84%

MDR-40 Series



Model No.	Output	Tol.	R&N	Effi.
MDR-40-5	5V, 0~6.00A	±2%	80mV	78%
MDR-40-12	12V, 0~3.33A	±1%	120mV	86%
MDR-40-24	24V, 0~1.70A	±1%	150mV	88%
MDR-40-48	48V, 0~0.83A	±1%	200mV	88%

MDR-60 Series



Model No.	Output	Tol.	R&N	Effi.
MDR-60-5	5V, 0~10.0A	±2%	80mV	78%
MDR-60-12	12V, 0~5.00A	±1%	120mV	86%
MDR-60-24	24V, 0~2.50A	±1%	150mV	88%
MDR-60-48	48V, 0~1.25A	±1%	200mV	87%

MDR-100 Series



Model No.	Output	Tol.	R&N	Effi.
MDR-100-12	12V, 0~7.5A	±1%	120mV	85%
MDR-100-24	24V, 0~4.0A	±1%	150mV	86%
MDR-100-48	48V, 0~2.0A	±1%	200mV	88%



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To satisfy our customers is our goal —

- High Quality
- Low Cost
- Prompt Delivery
- Best Service



Features

- Isolation Class II
- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
- Over temperature protection (DR-100)
- No load power consumption<1W (DR-100)
- No load power consumption<0.5W (DR-15)
- Installed on DIN rail TS35 / 7.5 or 15
- Cooling by free air convection
- LED indicator for power on
- 100% full load burn-in test
- 3 years warranty
- Suitable for building automation and control of household appliance

General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.		DR-15 	DR-30	DR-60	DR-100 
AC input voltage range		85~264VAC, 120~370VDC			88~264VAC, 124~370VDC
AC inrush current (max.)		Cold start, 65A at 230VAC	Cold start, 30A at 230VAC	Cold start, 36A at 230VAC	Cold start, 45A at 230VAC
DC adjustment range		±10% rated output voltage			
Overload Protection	Range	105%~160%			
	Type	constant current limiting, auto-recovery			
Over Voltage Protection	Range	115%~135% rated output voltage			
	Type	125%~155% rated output voltage			
Withstand voltage		I/P-O/P: 3kVAC			
Working temperature		-20°C~+60°C (refer to output load derating curve)			
Vibration		10~500Hz, 2G 10 min./1 cycle, period for 60 min. each along X, Y, Z axes			
Safety standards		UL60950-1, TUV60950-1 approved			
EMC standards		EN55022 class B, EN61000-3-2,3, EN61000-6-2, EN61000-4-2,3,4,5,6,8,11, ENV50204, EN61204-3			
Connection		I/P and O/P: 2 poles screw DIN terminal	I/P: 2 poles, O/P: 4 poles screw DIN terminal		
Dimension (WxHxD)(mm)		25x 93x 56	78x 93x 56	78x 93x 56	100x 93x 56
Case No.		985A	918B	918B	970A
Packing		140pcs / 15.0kg	48pcs / 14.0kg	48pcs / 15.4kg	36pcs / 13.6kg

15W DR-15

Model No.	Output	Tol.	R&N	Effi.
DR-15-5	5V, 0~2.40A	±2%	80mV	77.0%
DR-15-12	12V, 0~1.25A	±1%	120mV	84.0%
DR-15-15	15V, 0~1.00A	±1%	120mV	83.5%
DR-15-24	24V, 0~0.63A	±1%	150mV	85.0%

30W DR-30

Model No.	Output	Tol.	R&N	Effi.
DR-30-5	5V, 0~3.0A	±2%	80mV	74%
DR-30-12	12V, 0~2.0A	±1%	120mV	81%
DR-30-15	15V, 0~2.0A	±1%	120mV	82%
DR-30-24	24V, 0~1.5A	±1%	150mV	83%

60W DR-60

Model No.	Output	Tol.	R&N	Effi.
DR-60-5	5V, 0~6.5A	±2%	80mV	76%
DR-60-12	12V, 0~4.5A	±1%	120mV	82%
DR-60-15	15V, 0~4.0A	±1%	120mV	83%
DR-60-24	24V, 0~2.5A	±1%	150mV	84%

100W DR-100

Model No.	Output	Tol.	R&N	Effi.
DR-100-12	12V, 0~7.5A	±2%	120mV	87%
DR-100-15	15V, 0~6.5A	±1%	120mV	87%
DR-100-24	24V, 0~4.2A	±1%	150mV	89%



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■ Features

- Universal AC input / Full range (DR-45/75, DRP-240)
AC input selectable by switch (DR-120, DRP-480S)
AC input 180~264VAC only (DRP-480)
- Built-in active PFC function, PF>0.95(DRP-240)
- Built-in passive PFC function compliance to EN61000-3-2 (480W models)
- Protections: Short circuit / Overload /
Over voltage / Over temperature
- Cooling by free air convection
- Can be installed on DIN rail TS35 / 7.5 or 15
- UL508 (industrial control equipment) listed
- 100% full load burn-in test
- LED indicator for power on
- 3 years warranty

■ General Specification (Please refer to www.meanwell.com for detail spec.)

Model No.		DR-45	DR-75	DR-120	DRP-240	DRP-480	DRP-480S
AC input voltage range		85~264VAC(DR-45/75, DRP-240); 90~132/180~264VAC selectable by switch (DR-120, DRP-480S); 180~264VAC only (DRP-480)					
AC inrush current (230VAC)		56A	Cold start, 40A at 230VAC		45A	40A	45A
DC adjustment range		±10%	12V: 12~14V, 24V: 24~28V, 48V: 48~53V				
Overload protection		105%~150% constant current limiting, auto-recovery					
Over voltage protection	Range	115%~142% rated output voltage			30~36V for 24V model, 54~60V for 48V model		
	Type	Shut off, AC recycle to re-start					
Over temp. protection		Shut down output voltage, recovers automatically after temperature goes down					
Withstand voltage		I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, O/P-FG: 0.5kVAC, 1 minute					
Working temperature		-10°C~+50°C	-10°C~+60°C		-10°C~+70°C	-20°C~+70°C	
Safety standards		UL508, TUV EN60950-1 approved (UL60950-1 also for DR-120, DRP-240, DRP-480, DRP-480S)					
EMC standards		EN55022 class B, EN61000-3-2,3, ENV50204, EN61000-4-2,3,4,5,6,8,11, EN61000-6-2 heavy industry level					
Connection		I/P: 3 poles, O/P: 4 poles screw DIN terminal					
Dimension (WxHxD)(mm)		78x 93x 67	55.5x 125.2x 100	65.5x 125.2x 100	125.5x 125.2x 100	227x 125.2x 100	
Case No.		918A	923	921A	922A	930	
Packing		48pcs / 16.1kg	20pcs / 13.0kg	20pcs / 16.5kg	12pcs / 15.5kg	6pcs / 15.0kg	6pcs / 16.6kg

■ DR-45 Series



Model No.	Output	Tol.	R&N	Effi.
DR-4505	5V, 0~5.0A	±2%	100mV	72%
DR-4512	12V, 0~3.5A	±1%	200mV	77%
DR-4515	15V, 0~2.8A	±1%	240mV	77%
DR-4524	24V, 0~2.0A	±1%	480mV	80%

■ DR-75 Series



Model No.	Output	Tol.	R&N	Effi.
DR-75-12	12V, 0~6.3A	±2%	100mV	76%
DR-75-24	24V, 0~3.2A	±1%	150mV	80%
DR-75-48	48V, 0~1.6A	±1%	240mV	81%

■ DR-120 Series



Model No.	Output	Tol.	R&N	Effi.
DR-120-12	12V, 0~10A	±2%	80mV	80%
DR-120-24	24V, 0~5.0A	±1%	80mV	84%
DR-120-48	48V, 0~2.5A	±1%	100mV	85%

■ DRP-240 Series



Model No.	Output	Tol.	R&N	Effi.
DRP-240-24	24V, 0~10A	±1%	80mV	84%
DRP-240-48	48V, 0~5.0A	±1%	150mV	85%

■ DRP-480 Series



Model No.	Output	Tol.	R&N	Effi.
DRP-480-24	24V, 0~20A	±1%	120mV	89%
DRP-480-48	48V, 0~10A	±1%	120mV	89%

■ DRP-480S Series



Model No.	Output	Tol.	R&N	Effi.
DRP-480S-24	24V, 0~20A	±1%	120mV	89%
DRP-480S-48	48V, 0~10A	±1%	120mV	89%



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- Low Cost
- Prompt Delivery
- Best Service



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Features

- Input 340~550VAC, 3-phase (single phase or DRH-120)
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Built-in constant current limiting circuit
- Cooling by free air convection
- Can be installed on DIN rail TS35 / 7.5 or 15
- UL508 (industrial control equipment) listed (240~960W)
- EN61000-6-2 industrial immunity level
- Optional parallel function (1+1) (960W only)
- 100% full load burn-in test
- LED indicator for power on
- 3 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)

Model No.		DRH-120	DRT-240	DRT-480	DRT-960
AC input voltage range		340~550VAC, single phase 340~550VAC, 3-phase (dual-phase operation possible)			
AC inrush current (max.)		Cold start, 50A at 400VAC			
DC adjustment range		24V: 24~28V, 48V: 48~55V			
Overload protection	Range	105%~160%	105%~150%		105%~125%
	Type	Constant current limiting, auto-recovery			Constant current limiting, delay shut off after 3 sec.
Over voltage protection	Range	24V: 30~36V, 48V: 59~66V			
	Type	Shut off, AC recycle to re-start			
Over temperature protection		Shut down output voltage, recovers automatically after temperature goes down			
Withstand voltage		I/P - O/P: 3kVAC, I/P - FG: 1.5kVAC, O/P - FG: 0.5kVAC, 1 minute			
Working temperature		-20~+60°C	-20~+70°C		-20~+60°C
Safety standards		UL60950-1 approved	UL508, UL60950-1, TUV EN60950-1 approved		
EMC standards		EN55022 class B, EN61000-3-2,3, ENV50204, EN61000-4-2,3,4,5,6,8,11, EN61204-3, EN61000-6-2 heavy industry level			
Connection (screw DIN terminal)		I/P: 3 poles, O/P: 4 poles	I/P: 4 poles, O/P: 4 poles		I/P: 4 poles, O/P: 6 poles
Dimension (WxHxD)(mm)		65.5x 125.2x 100	125.5x 125.2x 100	227x 125.2x 100	276x 125.2x 100
Case No.		921	922A	930A	934
Packing		20pcs / 16.0kg	12pcs / 16.6kg	6pcs / 16.0kg	4pcs / 14.2kg

DRH-120 (Single Phase)



Model No.	Output	Tol.	R&N	Effi.
DRH-120-24	24V, 0~5.0A	±1%	80mV	85%
DRH-120-48	48V, 0~2.5A	±1%	80mV	86%

DRT-480 (Three Phase)



Model No.	Output	Tol.	R&N	Effi.
DRT-480-24	24V, 0~20A	±1%	80mV	89%
DRT-480-48	48V, 0~10A	±1%	80mV	90%

DRT-240 (Three Phase)



Model No.	Output	Tol.	R&N	Effi.
DRT-240-24	24V, 0~10A	±1%	80mV	89%
DRT-240-48	48V, 0~5.0A	±1%	80mV	89%

DRT-960 (Three Phase)



Model No.	Output	Tol.	R&N	Effi.
DRT-960-24	24V, 0~40A	±1%	80mV	91%
DRT-960-48	48V, 0~20A	±1%	80mV	92%



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We have authorized distributors all over the world. They have sufficient stock for your prompt delivery. Also they can offer you technical support & RMA services. Please contact your local distributors for more product information. You can also contact us at info@meanwell.com for information of your local distributors.



Products —

- One Stop Shopping
- Total Solution



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— "MEAN WELL" tries to be —



48hrs delivery—

We keep enough stock for 95% of standard models at our 2400m² warehouse. We can arrange prompt delivery within 48hrs.



Features

- Wide input range 180~550VAC
- Built-in active PFC (WDR-240/480)
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Built-in constant current limiting circuit
- Can be installed on DIN rail TS-35/7.5 or 15
- UL508(industrial control equipment)
- EN61000-6-2(EN50082-2) industrial immunity level
- Built-in DC OK relay contact
- 3 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)

cULus CBCE (WDR-240/480 pending)

Model No.		WDR-120 	WDR-240 	WDR-480 
AC input voltage range		180~550VAC; 254~780VDC		
AC inrush current (max.)		Cold start, 50A at 230VAC		
DC adjustment range		12V: 12~15V (only for WDR-120), 24V: 24~29V, 48V: 48~58V		
Overload protection		105%~130% rated output voltage, constant current limiting, auto-recovery		
Over voltage protection	Range	16~18V for 12V model (only for WDR-120), 31~37V for 24V model, 60~67V for 48V model		
	Type	Shut down o/p voltage, re-power on to recover		
Over temperature protection	Range	100°C±5°C (TSW1 : detect on heatsink of power switch)		
	Type	Shut down output voltage, recovers automatically after temperature goes down		
Withstand voltage		I/P-O/P:3kVAC I/P-FG:1.5kVAC O/P-FG:0.5kVAC		
Working temperature		-25~+70°C (Refer to output derating curve)		
Safety standards		UL508 approved (WDR-240/480 pending)		
EMC standards		Compliance to EN55011(CISPR11), EN55022 Class B, EN61000-4-2,3,4,5,6,8,11, ENV50204, EN61000-6-2 (EN50082-2), EN61204-3, heavy industry level		
Connection		I/P: 3 poles, O/P: 4 poles screw DIN terminal	I/P: 3 poles, O/P: 6 poles screw DIN terminal	
Dimension (WxHxD)(mm)		40x 125.2x 113.5	63x 125.2x 113.5	85.5x 125.2x 128.5

120W **NEW WDR-120**

Model No.	Output	Tol.	R&N	Effi.
WDR-120-12	12V, 0~10A	±1.5%	120mV	89.5%.
WDR-120-24	24V, 0~5A	±1.0%	120mV	91.0%.
WDR-120-48	48V, 0~2.5A	±1.0%	150mV	92.0%.

240W **Under Development WDR-240**

Model No.	Output	Tol.	R&N	Effi.
WDR-240-24	24V, 0~10A	±1.0%	120mV	90%.
WDR-240-48	48V, 0~5A	±1.0%	120mV	90%.

480W **Under Development WDR-480**

Model No.	Output	Tol.	R&N	Effi.
WDR-480-24	24V, 0~20A	±1.0%	100mV	94%.
WDR-480-48	48V, 0~10A	±1.0%	120mV	94%.

Under Development

45W/65W

Single Output Open Frame Type

- 4"x 2" miniature size
- Universal AC input / Full range
- No load power consumption <0.5W
- High efficiency up to 90%
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- LED indicator for power on
- Output models: 3.3V / 5V / 7.5V / 12V / 15V / 24V / 36V / 48V
- Dimension(LxWxH): 101.6x 50.8x 28mm
- 3 years warranty



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To satisfy our customers is our goal —

- High Quality
- Low Cost
- Prompt Delivery
- Best Service



Features

- High efficiency up to 94% (SDR-240/480)
- Universal AC input / Full range
- Built-in active PFC function, PF>0.93
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- UL508(industrial control equipment) approved
- EN61000-6-2(EN50082-2) industrial immunity level
- Built-in DC OK relay contact
- 150% peak load capability
- Comply with GL and SEMI F47
- Optional current sharing (7+1) (SDR-480P)
- 3 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.		SDR-120 	SDR-240	SDR-480 
AC input voltage range		88~264VAC; 124~370VDC		90~264VAC; 127~370VDC
AC inrush current (max.)		Cold start, 70A at 230VAC	Cold start, 65A at 230VAC	Cold start, 80A at 230VAC
DC adjustment range		12V: 12~14V (only for SDR-120), 24V: 24~28V, 48V: 48~55V		
Overload protection		Normally works within 110 ~ 150% rated output power for 3 seconds and then shut down output voltage with auto-recovery		
		>150% rated power or short circuit, constant current limiting with auto-recovery within 2 seconds and may cause to shut down if over 2 seconds		
Over voltage protection	Range	14~17V for 12V model(SDR-120 only), 29~33V for 24V model, 56~65V for 48V model		
	Type	Shut down o/p voltage, re-power on to recover	Shut down o/p voltage with auto-recovery	
Over temperature protection	Range	95°C±5°C (TSW : detect on heatsink of power switch)		105°C±5°C (TSW : detect on heatsink of power switch)
	Type	Shut down output voltage, recovers automatically after temperature goes down		
Withstand voltage		I/P-O/P:3kVAC I/P-FG:1.5kVAC O/P-FG:0.5kVAC O/P-DC OK:0.5kVAC		
Working temperature		-25~+70°C (Refer to output derating curve)		
Safety standards		UL508, TUV EN60950-1, GL approved		
EMC standards		Compliance to EN55022 Class B, EN61000-4-2,3,4,5,6,8,11, ENV50204, EN61000-6-2 (EN50082-2), EN61204-3, heavy industry level, SEMI F47, GL		
Connection		I/P: 3 poles, O/P: 4 poles screw DIN terminal	I/P: 3 poles, O/P: 6 poles screw DIN terminal	I/P: 3 poles, O/P: 8 poles screw DIN terminal
Dimension (WxHxD)(mm)		40x 125.2x 113.5	63x 125.2x 113.5	85.5x 125.2x 128.5

120W NEW SDR-120

Model No.	Output	Tol.	R&N	Effi.
SDR-120-12	12V, 0~10A	±1.0%	100mV	89.0%
SDR-120-24	24V, 0~ 5A	±1.0%	100mV	91.0%
SDR-120-48	48V, 0~2.5A	±1.0%	120mV	90.5%

240W SDR-240

Model No.	Output	Tol.	R&N	Effi.
SDR-240-24	24V, 0~10A	±1.0%	100mV	94.0%
SDR-240-48	48V, 0~5A	±1.0%	120mV	94.0%

480W SDR-480

Model No.	Output	Tol.	R&N	Effi.
SDR-480 □ -24	24V, 0~20A	±1.2%	100mV	94.0%
SDR-480 □ -48	48V, 0~10A	±1.0%	120mV	94.0%

□=blank, P ; Blank: basic function, P: with parallel function



We provide specification, drawing, test report and more information, please visit our website —

<http://www.meanwell.com>

Feature Description

SDR family is our new slim DIN rail product series targeting at the growing demand of high performance DIN rail power supply in the market. Featuring up to 94% of extreme high efficiency, they can provide 120W, 240W, or 480W continuously and 150% peak power for 3 seconds up to 60°C by only free air convection. The slim design of 40mm(SDR-120) / 63mm(SDR-240) / 85.5mm(SDR-480) in width helps save the precious space on the rail and also makes it 30.7%, 43% and 51.6% smaller in size compare to its predecessor model. To fulfill the requirements of marine and semi-conductor related usage, the SDR family complies with GL and SEMI F47 norms in addition to UL, CUL, TUV, and CE certificates.

20A Power Supply Redundant Module

CE



- Suitable for redundant operation of 24V system
- Installed on DIN rail TS35 / 7.5 or 15
- Relay contact signal output and LED indicator for input failure alarm
- Cooling by free air convection
- 3 years warranty

CASE: 923C 55.5x125.2x100 mm

DC input voltage range 21~28V, 20A max. x 2 channels
 Reverse voltage 30V
 DC output current 20A max.
 DC output voltage drop 0.5V max.
 Input voltage alarm When input is > 20V(±5%) or <30V(±5%), relay contacts
 Relay contact rating 30VDC, 1A
 Working temperature -20~+70°C
 EMC standards EN55022 class B, EN61000-4-2,3,4,5,6,8, ENV50204
 Connection I/P: 4 poles, O/P: 2 poles screw DIN terminal, Single output: 4 poles
 Packing 0.5Kg ; 20pcs / 11Kg / 1.29CUFT

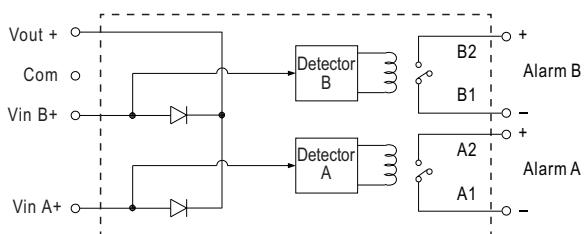
Model No.	Output	Reverse Voltage	Current
DR-RDN20	24V, 20A	30V max.	20A max.

► Feature Description

DR-RDN-20 is a 20A redundancy (decoupling) module for the 24Vdc power system. Containing 2 sets of 20A Or-ing diodes with wonderful heat dissipation deployment, DR-RDN20 offers a safe option of 1+1 redundant set-up. Not only perfectly decouple power sources from each other as well as from the load, DR-RDN-20 also provides users monitoring signals for both input channels through the built-in relays.

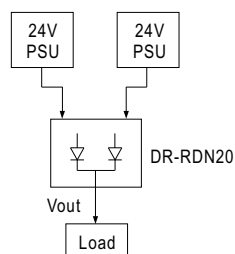
DR-UPS40 is a 40A max. DC UPS (battery control) module for the 24Vdc power system. Accompany with external batteries, it can back-up up to 40A of current to critical loads for certain period of time depending on the capacity of batteries. With complete monitoring signals / LED indicators for DC BUS OK, Battery Fail, Battery Discharge, and the repeated Battery Test function to check the situation of external batteries, users can customize their own DC UPS system to back up critical loads and capture the status of the whole system easily.

Block Diagram



Example of Application

1+1 Redundancy :
Using 1 more PSU as the redundant unit



40A DC UPS Module

CE

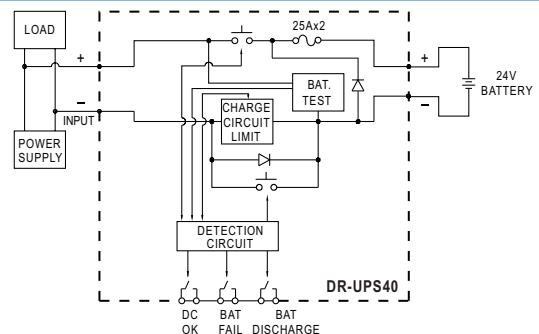


- Battery controller for DIN rail UPS system
- Parallel connected to DC BUS
- Suitable for 24V system up to 40A
- Installed on DIN Rail TS35 / 7.5 or 15
- Built-in battery test function
- Battery polarity protection
- Relay contact signal output and LED indicator for DC BUS OK, Battery Fail, and Battery Discharge
- Cooling by free air convection
- 3 years warranty

DC input / DC bus 24~29V, 40A max.
 Battery input voltage 21~29V
 Battery input Current 0~40A
 Charge current (typ.) 2A
 External battery (typ.) 24V, 4AH / 7AH / 12AH
 DC bus ok Relay status : Short when DC voltage between 21~29V(±3%), relay contacts
 LED(Green) : DC bus OK : light; DC bus fail : dark
 Battery fail Relay status : Short when battery failure is observed through the battery test function, relay contacts
 LED(Red) : Battery over-discharge warning or battery broken: light; Battery OK: dark
 Battery discharge Relay status : Short when battery in discharge condition, relay contacts
 LED(Yellow) : Battery discharging: light; Battery is not discharging or discharging current <2A: dark
 Working temperature -20~+70°C
 EMC standards EN55022 class B, EN61000-4-2,3,4,5,6,8, ENV50204
 Connection I/P: 2 poles, O/P: 2 poles screw DIN terminal, Single output: 6 poles
 Packing 0.55Kg ; 20pcs / 12Kg / 1.29CUFT

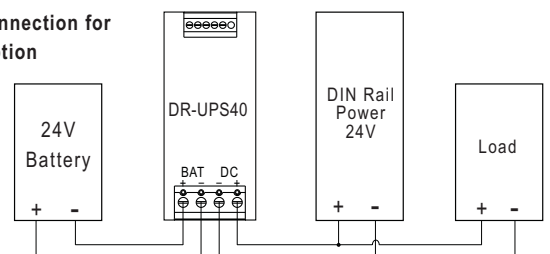
Model No.	DC BUS Voltage	DC BUS Current
DR-UPS40	24~29V	40A max.

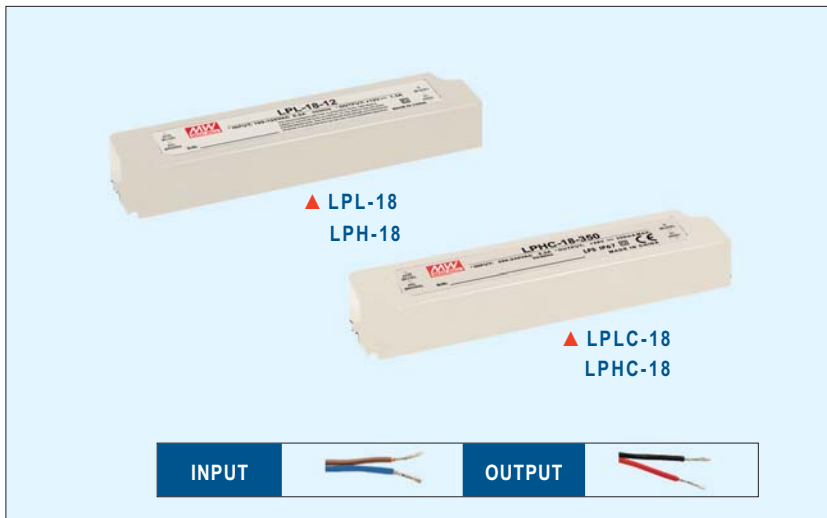
Block Diagram



Example of Application

Back up connection for AC interruption





Features

- 180~264VAC input only (LPH-18 / LPHC-18)
- 90~132VAC input only (LPL-18 / LPLC-18)
- Fully encapsulated with IP67 level
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Constant voltage design (LPL-18 / LPH-18)
- Constant current design (LPLC-18 / LPHC-18)
- Isolation class II, no F.G.
- Cooling by free air convection
- Pass LPS
- 100% full load burn-in test
- Low cost, high reliability
- Suitable for LED-based decorative / architectural lighting, LED stage and theater lighting
- 2 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)

Model No.		LPL-18	LPH-18	LPLC-18	LPHC-18
AC input voltage range		90~132VAC	180~264VAC	90~132VAC	180~264VAC
AC inrush current (max.)		Cold start, 40A at 115VAC	Cold start, 50A at 230VAC	Cold start, 40A at 115VAC	Cold start, 50A at 230VAC
Overload Protection	Range	≥105% rated output current		±5% rated output current	
	Type	Hiccup mode, auto-recovery		Constant current limiting, auto-recovery	
Over voltage protection		115%~135% rated output voltage		105%~135%	
Withstand voltage		I/P-O/P: 3kVAC			
Working temperature		-30~+70℃			
Vibration		10~500Hz, 2G 10 minutes /1 cycle, period for 60 minutes each along X, Y, Z axes			
Safety standards		Design refer to UL1310 class 2, CAN/CSA-C22.2 No. 223-M91, EN61347-2-13; TUV EN60950-1 approved(LPH-18)			
EMC standards		FCC part 15 class B	EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, ENV50204	FCC part 15 class A	EN55022 class A, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, ENV50204
Connection	Input	UL rated, 18AWGx2C (30cm)			
	Output				
Dimension (LxWxH)(mm)		140x 30x 22			
Packing		0.175kg; 70pcs / 13.3kg			

LPL-18 Series (C.V. mode)



Model No.	Output	Tol.	R&N	Effi.
LPL-18-12	12V, 0~1.5A	±3%	120mV	80%
LPL-18-24	24V, 0~0.75A	±3%	150mV	83%
LPL-18-36	36V, 0~0.5A	±3%	200mV	84%

LPLC-18 Series (C.C. mode)



Model No.	Output	Tol.	R&N	Effi.
LPLC-18-350	6~48V, 350mA	±5%	300mV	82%
LPLC-18-700	6~25V, 700mA	±5%	250mV	80%

LPH-18 Series (C.V. mode)



Model No.	Output	Tol.	R&N	Effi.
LPH-18-12	12V, 0~1.5A	±3%	120mV	78%
LPH-18-24	24V, 0~0.75A	±3%	150mV	82%
LPH-18-36	36V, 0~0.5A	±3%	200mV	83%

LPHC-18 Series (C.C. mode)



Model No.	Output	Tol.	R&N	Effi.
LPHC-18-350	6~48V, 350mA	±5%	300mV	80%
LPHC-18-700	6~25V, 700mA	±5%	250mV	80%



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- Prompt Delivery
- Best Service



Products —

- One Stop Shopping
- Total Solution



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Features

- Universal AC input / Full range
- Fully encapsulated with IP67 level
- Protections: Short circuit / Overload / Over voltage
- **Constant voltage design**
- Withstand 300VAC surge input for 5 seconds
- Isolation class II, no F.G.
- Cooling by free air convection
- UL1310 Class 2 power unit (except for LPV-100)
- Pass LPS (except for LPV-100)
- 100% full load burn-in test
- Low cost, high reliability
- Suitable for LED-based decorative / architectural lighting, LED stage and theater lighting
- 2 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)

Model No.		LPV-20	LPV-35	LPV-60	LPV-100 Under Development
AC input voltage range		90~264VAC			
AC inrush current (max.)		Cold start, 70A at 230VAC	Cold start, 60A at 230VAC		
Overload	Range	110%~150%			
Protection	Type	Hiccup mode, auto-recovery			
Over voltage protection		115%~135% rated output voltage			
Withstand voltage		I/P-O/P: 3kVAC			
Working temperature		-30~+70°C	-30~+75°C	-30~+70°C	-25~+70°C
Vibration		10~500Hz, 2G 10 minutes /1 cycle, period for 60 minutes each along X, Y, Z axes			
Safety standards		UL1310 class 2 (except for LPV-60-5 & LPV-100), CAN/CSA-C22.2 No. 223-M91 (except for LPV-60-5. LPV-60-48 & LPV-100), UL879 (LPV-20 only) approved; Design refer to TUV EN60950-1, EN61347-2-13			
EMC standards		EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, ENV50204			
Connection	Input	UL rated, 18AWGx2C (60cm)	UL rated, 18AWGx2C (60cm)		18AWGx2C (60cm)
	Output		UL rated, 16AWGx2C (60cm)		14AWGx2C (60cm)
Dimension (LxWxH)(mm)		118x 35x 26	148x 40x 30	162.5x 42.5x 32	190x 51x 35

LPV-20 Series (C.V. mode)



Model No.	Output	Tol.	R&N	Effi.
LPV-20-5	5V, 0~3.0A	±5%	80mV	77%
LPV-20-12	12V, 0~1.67A	±5%	120mV	81%
LPV-20-15	15V, 0~1.33A	±5%	120mV	83%
LPV-20-24	24V, 0~0.84A	±5%	150mV	83%

LPV-35 Series (C.V. mode)



Model No.	Output	Tol.	R&N	Effi.
LPV-35-5	5V, 0~5.0A (Peak 6A)	±6%	80mV	77%
LPV-35-12	12V, 0~3.0A	±5%	120mV	84%
LPV-35-15	15V, 0~2.4A	±5%	120mV	84%
LPV-35-24	24V, 0~1.5A	±5%	150mV	85%
LPV-35-36	36V, 0~1.0A	±5%	150mV	85%

LPV-60 Series (C.V. mode)



Model No.	Output	Tol.	R&N	Effi.
LPV-60-5	5V, 0~8.00A	±8%	80mV	76%
LPV-60-12	12V, 0~5.00A	±5%	120mV	83%
LPV-60-15	15V, 0~4.00A	±5%	120mV	83%
LPV-60-24	24V, 0~2.50A	±5%	150mV	86%
LPV-60-36	36V, 0~1.67A	±5%	150mV	86%
LPV-60-48	48V, 0~1.25A	±5%	150mV	86%

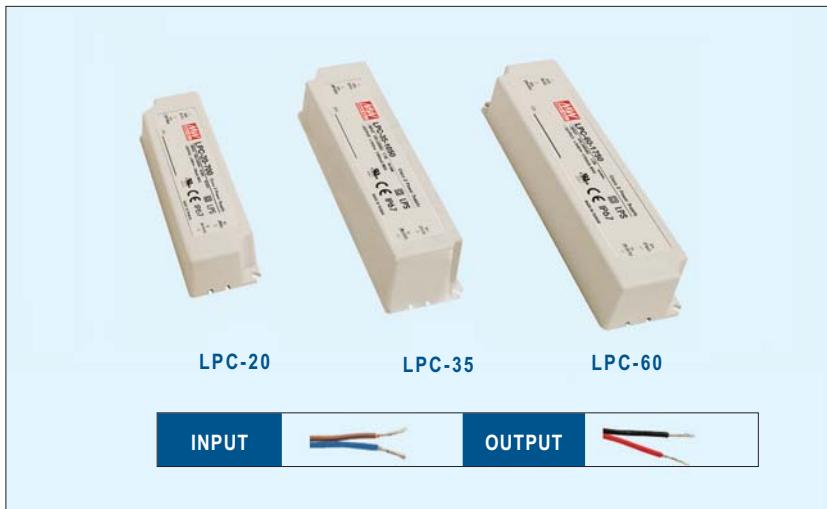
LPV-100 Series (C.V. mode)



Model No.	Output	Tol.	R&N	Effi.
LPV-100-5	5V, 0~12.0A	±8%	80mV	78%
LPV-100-12	12V, 0~8.5A	±5%	120mV	84%
LPV-100-15	15V, 0~6.7A	±5%	120mV	85%
LPV-100-24	24V, 0~4.2A	±5%	150mV	86%
LPV-100-36	36V, 0~2.8A	±5%	150mV	87%
LPV-100-48	48V, 0~2.1A	±5%	150mV	88%



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Features

- Universal AC input / Full range
- Fully encapsulated with IP67 level
- Protections: Short circuit / Overload / Over voltage
- **Constant current design**
- Withstand 300VAC surge input for 5 seconds
- Isolation class II, no F.G.
- Cooling by free air convection
- UL1310 Class 2 Power Unit
- Pass LPS
- 100% full load burn-in test
- Low cost, high reliability
- Suitable for LED-based decorative / architectural lighting, LED stage and theater lighting, and LED electronic displays
- 2 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)

Model No.	LPC-20	LPC-35	LPC-60
AC input voltage range	90~264VAC		
AC inrush current (max.)	Cold start, 70A at 230VAC		Cold start, 60A at 230VAC
Overload	±5% rated output current		
Protection	Constant current limiting, auto-recovery		
Over voltage protection	115%~135% rated output voltage		
Withstand voltage	I/P-O/P: 3kVAC		
Working temperature	-30~+70°C	-30~+75°C	-30~+70°C
Vibration	10~500Hz, 2G 10 minutes /1 cycle, period for 60 minutes each along X, Y, Z axes		
Safety standards	UL1310 class 2, CAN/CSA-C22.2 NO. 223-M91(except for LPC-20-350, LPC-35-700, LPC-60-1050/1400), UL879 (LPC-20 only) approved; design refer to TUV EN60950-1, EN61347-2-13		
EMC standards	EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, ENV50204		
Connection	Input	UL rated, 18AWGx2C (60cm)	
	Output	UL rated, 16AWGx2C (60cm)	
Dimension (LxWxH)(mm)	118x 35x 26	148x 40x 30	162.5x 42.5x 32
Packing	0.22kg ; 60pcs / 14.2kg	0.34kg ; 40pcs / 14.6kg	0.4kg ; 32pcs / 13.8kg

LPC-20 Series (C.C. mode)



Model No.	Output	Tol.	R&N	Effi.
LPC-20-350	9~48V, 350mA	±5%	200mV	83%
LPC-20-700	9~30V, 700mA	±5%	200mV	83%

LPC-35 Series (C.C. mode)



Model No.	Output	Tol.	R&N	Effi.
LPC-35-700	9~48V, 700mA	±5%	200mV	85%
LPC-35-1050	9~30V, 1050mA	±5%	200mV	85%
LPC-35-1400	9~24V, 1400mA	±5%	200mV	85%

LPC-60 Series (C.C. mode)



Model No.	Output	Tol.	R&N	Effi.
LPC-60-1050	9~48V, 1050mA	±5%	200mV	87%
LPC-60-1400	9~42V, 1400mA	±5%	200mV	85%
LPC-60-1750	9~34V, 1750mA	±5%	200mV	87%



Products —

- One Stop Shopping
- Total Solution

40W/60W Single Output with PFC Function

Under Development

- Universal AC input / Full Range (up to 305VAC)
- Built-in active PFC function
- High efficiency up to 90%
- Fully encapsulated with IP67 level
- Constant current design
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Cooling by free air convection
- Output models: 12V / 15V / 20V / 24V / 30V / 36V / 42V / 48V / 54V
- Suitable for LED lighting applications
- Dimension(LxWxH): 162.5x 42.5x 32mm
- 3 years warranty



Features

- Universal AC input / Full range
- Fully isolated plastic case with IP64 level
- Built-in constant current limiting circuit with adjustable OCP level
- Protections: Short circuit / Overload / Over voltage
- **Optional dimming function: 1.1~10VDC(D type) or PWM(P type) controlled**
- UL1310 Class 2 power unit
- Pass LPS
- Cooling by free air convection
- **Suitable for LED related and moving sign applications**
- 2 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.	ELN-30	ELN-60
AC input voltage range	90~264VAC, 127~370VDC	
AC inrush current (max.)	Cold start, 60A at 230VAC	
DC adjustment range	±10% rated output voltage	
Current adjustment range	75%~103% rated output current adjustable by internal potential meter	
Overload protection	95%~110% constant current limiting, auto-recovery	95%~130% constant current limiting, auto-recovery
Over voltage protection	Range	110%~150% rated output voltage
	Type	Shut down o/p voltage, re-power on to restart
Withstand voltage	I/P-O/P: 3kVAC	
Working temperature	-20~+60°C (refer to output derating curve)	
Vibration	10~500Hz, 2G 10min/1 cycle, period for 60 min each along X, Y, Z axes	
Safety standards	UL1310 Class 2, CAN/CSA-C22.2 No. 223-M91 (except for 48V) approved; design refer to TUV EN60950-1, EN61347-2-13	
EMC standards	EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, ENV50204	
Connection	Input/Output: UL rated, 18AWGx2C (30cm); Output(with optional dimming function): 18AWGx4C (30cm)	
Dimension (LxWxH)(mm)	145x 47x 30	181x 61.5x 35
Case No.	964A	960A
Packing	0.26kg ; 60pcs / 16.6kg / 1.25CUFT	0.4kg ; 24pcs / 11.0kg / 0.75CUFT

30W

ELN-30

Model No.	Output	Tol.	R&N	Effi.
ELN-30-5	5V, 0~5.0A	±5%	80mV	75%
ELN-30-9	9V, 0~3.4A	±5%	100mV	80%
ELN-30-12	12V, 0~2.5A	±5%	120mV	82%
ELN-30-15	15V, 0~2.0A	±5%	120mV	82%
ELN-30-24	24V, 0~1.25A	±5%	150mV	85%
ELN-30-27	27V, 0~1.12A	±5%	150mV	85%
ELN-30-48	48V, 0~0.63A	±5%	250mV	87%

60W

ELN-60

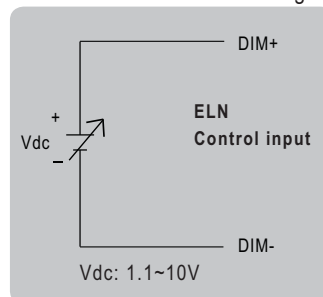
Model No.	Output	Tol.	R&N	Effi.
ELN-60-9	9V, 0~5.0A	±5%	120mV	82%
ELN-60-12	12V, 0~5.0A	±5%	120mV	85%
ELN-60-15	15V, 0~4.0A	±5%	150mV	86%
ELN-60-24	24V, 0~2.5A	±5%	150mV	87%
ELN-60-27	27V, 0~2.3A	±5%	200mV	87%
ELN-60-48	48V, 0~1.3A	±5%	250mV	88%

Dimming Control (optional)

Through the dimming function, output current of ELN series can be adjusted to reduce the energy consumption or adjust the brightness of LEDs connecting to it. Two kinds of control signal are accepted: 1.1~10VDC (D-type option) or PWM signal (P-type option).

D Type:

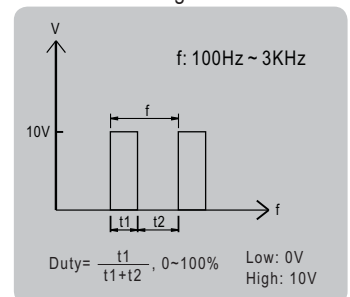
1.1~10Vdc external control signal



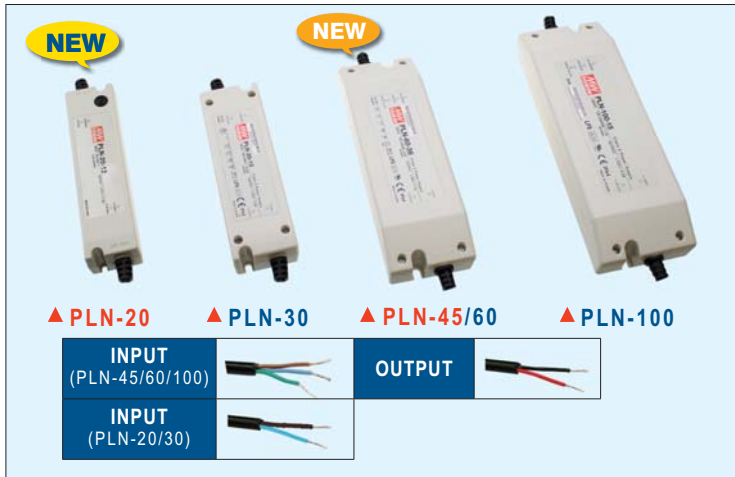
Order No.: ELN-**30**-**5**D

P Type:

PWM control signal



Order No.: ELN-**30**-**5**P



Features

- Universal AC input (up to 295VAC) / Full range
- Fully isolated plastic case with IP64 level
- Built-in active PFC function, PF>0.9 for 75% of load or higher
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Built-in constant current limiting circuit
- User adjustable output voltage (except for PLN-20) and constant current level
- UL1310 Class 2 power unit
- Pass LPS
- Cooling by free air convection
- 100% full load burn-in test
- Suitable for LED lighting and moving sign applications
- 2 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)

Model No.	PLN-20 	PLN-30	PLN-45 	PLN-60	PLN-100
AC input voltage range	90~277VAC	90~295VAC; 127~417VDC			
AC inrush current (max.)	Cold start, 40A at 230VAC				
DC adjustment range	None	95%~108% rated output voltage adjustable by internal potential meter			85%~100% rated output voltage
Current adjustment range	75% ~ 100%	75%~ 103% rated output current adjustable by internal potential meter			
Overload protection	95%~110% constant current limiting, auto-recovery	100%~110% constant current limiting, auto-recovery	95%~110% constant current limiting, auto-recovery		95%~102% constant current limiting, auto-recovery
Over voltage protection	105%~142% rated output voltage	110%~155% rated output voltage	115%~140% rated output voltage		107%~135% rated output voltage
Setup, rise, hold up time	2300ms(set up time) at full load and 230VAC, no hold up time	1500ms (setup time) at full load and 230VAC, no hold up time			1200ms, 80ms, 60ms at full load and 230VAC
Withstand voltage	I/P-O/P: 3.75kVAC				
Working temperature	-30~+60°C	-30~+50°C (refer to output derating curve)			
Safety standards	UL1310 Class 2, CAN/CSA-C22.2 No.223-M91 (except for 48V & PLN-20), EN61347-1, EN61347-2-13, UL879 (except for PLN-20) approved ; UL8750 approved for PLN-20 / 60 / 100; UL60950-1, TUV EN60950-1 approved for PLN-100 only				
EMC standards	EN55015, EN55022 class B(PLN-60/100 only), EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, ENV50204, EN61547				
Connection	Input	UL rated, 18AWGx2C (32cm)	UL rated, 18AWGx3C (30cm)		UL rated, 18AWGx3C (31cm)
	Output		UL rated, 18AWGx2C (30cm)		UL rated, 18AWGx2C (31cm)
Dimension (LxWxH)(mm)	147x 37x 28	145x 47x 30	181x 61.5x 35		200x 70.5x 35
Packing	60pcs / 12.8kg	60pcs / 14.2kg	24pcs / 13.0kg		20pcs / 12.5kg

PLN-20 Series

Model No.	Output	Tol.	R&N	Effi.
PLN-20-12	12V, 0~1.6A	±10%	2.5V	80.0%
PLN-20-18	18V, 0~1.1A	±10%	3.0V	81.0%
PLN-20-24	24V, 0~0.8A	±10%	3.0V	82.0%
PLN-20-36	36V, 0~0.55A	±10%	3.0V	83.0%
PLN-20-48	48V, 0~0.42A	±10%	3.8V	83.5%

PLN-30 Series

Model No.	Output	Tol.	R&N	Effi.
PLN-30-9	9V, 0~3.3A	±10%	2.6V	80.0%
PLN-30-12	12V, 0~2.5A	±10%	2.0V	82.5%
PLN-30-15	15V, 0~2.0A	±10%	2.6V	83.5%
PLN-30-20	20V, 0~1.5A	±10%	2.6V	84.0%
PLN-30-24	24V, 0~1.25A	±10%	2.6V	84.0%
PLN-30-27	27V, 0~1.12A	±10%	2.3V	84.5%
PLN-30-36	36V, 0~0.84A	±10%	4.5V	85.0%
PLN-30-48	48V, 0~0.63A	±10%	3.7V	85.5%

PLN-45 Series

Model No.	Output	Tol.	R&N	Effi.
PLN-45-12	12V, 0~3.8A	±10%	2.0V	83.5%
PLN-45-15	15V, 0~3.0A	±10%	2.4V	85.0%
PLN-45-20	20V, 0~2.3A	±10%	1.8V	86.5%

Model No.	Output	Tol.	R&N	Effi.
PLN-45-24	24V, 0~1.9A	±10%	2.7V	86.5%
PLN-45-27	27V, 0~1.7A	±10%	2.7V	86.5%
PLN-45-36	36V, 0~1.25A	±10%	3.6V	87.5%
PLN-45-48	48V, 0~0.95A	±10%	4.6V	87.5%

PLN-60 Series

Model No.	Output	Tol.	R&N	Effi.
PLN-60-12	12V, 0~5.0A	±10%	2.0V	85.0%
PLN-60-15	15V, 0~4.0A	±10%	2.4V	86.0%
PLN-60-20	20V, 0~3.0A	±10%	1.8V	87.5%
PLN-60-24	24V, 0~2.5A	±10%	2.7V	87.0%
PLN-60-27	27V, 0~2.3A	±10%	2.7V	88.0%
PLN-60-36	36V, 0~1.7A	±10%	3.6V	89.0%
PLN-60-48	48V, 0~1.3A	±10%	4.6V	89.0%

PLN-100 Series

Model No.	Output	Tol.	R&N	Effi.
PLN-100-12	12V, 0~5.00A	±3%	150mV	84.5%
PLN-100-15	15V, 0~5.00A	±3%	150mV	86.5%
PLN-100-20	20V, 0~4.80A	±3%	150mV	90.0%
PLN-100-24	24V, 0~4.00A	±3%	150mV	90.0%
PLN-100-27	27V, 0~3.55A	±3%	150mV	90.0%
PLN-100-36	36V, 0~2.65A	±2%	150mV	90.0%
PLN-100-48	48V, 0~2.00A	±2%	200mV	89.0%



■ Features

- Universal AC input / Full range
- Fully isolated plastic case with screw terminal style of I/O
- Built-in constant current limiting circuit
- Adjustable output voltage and current level
- **Built-in active PFC function, PF>0.9 for 75% of load or higher**
- Cooling by free air convection
- UL1310 Class 2 power unit
- Pass LPS
- Protections: Short circuit / Overload / Over voltage / Over temperature
- 100% full load burn-in test
- Suitable for LED lighting and moving sign applications
- 2 years warranty

■ General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.	PLC-30	PLC-45 	PLC-60	PLC-100
AC input voltage range	90~264VAC; 127~370VDC			
AC inrush current (max.)	Cold start, 40A at 230VAC			
DC adjustment range	95%~108% rated output voltage adjustable by internal potential meter			85%~100% rated output voltage
Current adjustment range	75%~103% rated output current adjustable by internal potential meter			75~100% rated output voltage
Overload protection	100%~110% constant current limiting, auto-recovery	95%~110% constant current limiting, auto-recovery		95%~102% constant current limiting, auto-recovery
Over voltage protection	110%~155% rated output voltage	115%~140% rated output voltage		107%~135% rated output voltage
Setup time	1500ms at full load and 230VAC			1200ms at full load and 230VAC
Withstand voltage	I/P-O/P: 3.75kVAC			
Working temperature	-30~+50℃ (refer to output derating curve)			
Safety standards	UL1310 Class 2, CAN/CSA-C22.2 No.223-M91 (except for 48V), EN61347-1, EN61347-2-13 approved; UL60950-1, TUV EN60950-1 approved for PLC-100 only			
EMC standards	EN55015, EN55022 class B (PLC-45/60/100), EN61000-3-2 class C, EN61000-4-2,3,4,5,6,8,11, ENV50204, EN61547			
Connection (Input / Output)	2+2P screw terminal block	3+2P screw terminal block		
Dimension (LxWxH)(mm)	160x 46x 30	181.5x 62x 35		200.5x 70.5x 35
Packing	0.2kg ; 70pcs / 15kg / 0.96CUFT	0.41kg ; 30pcs / 13.3kg / 0.67CUFT		0.52kg ; 25pcs / 14.0kg / 0.65CUFT

■ 30W PLC-30

Model No.	Output	Tol.	R&N	Effi.
PLC-30-9	9V, 0~3.3A	±10%	2.6V	80.0%
PLC-30-12	12V, 0~2.5A	±10%	2.0V	82.5%
PLC-30-15	15V, 0~2.0A	±10%	2.6V	83.5%
PLC-30-20	20V, 0~1.5A	±10%	2.6V	84.0%
PLC-30-24	24V, 0~1.25A	±10%	2.4V	84.0%
PLC-30-27	27V, 0~1.12A	±10%	2.3V	84.5%
PLC-30-36	36V, 0~0.84A	±10%	3.6V	85.0%
PLC-30-48	48V, 0~0.63A	±10%	3.7V	85.5%

■ 60W PLC-60

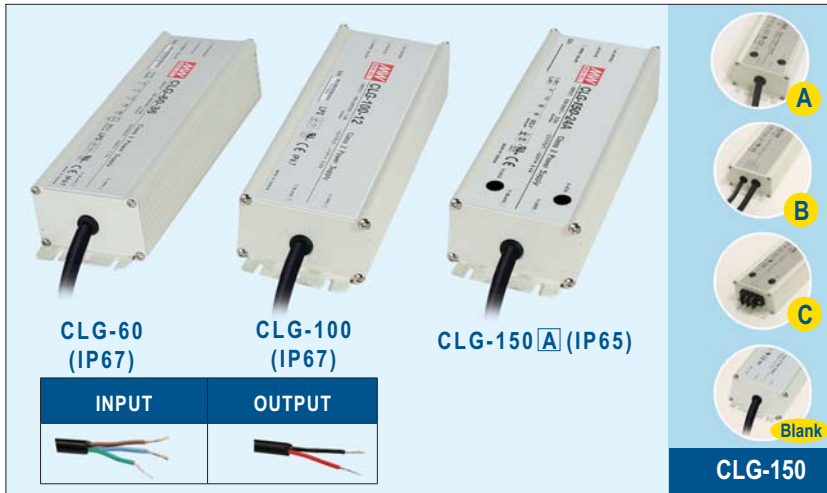
Model No.	Output	Tol.	R&N	Effi.
PLC-60-12	12V, 0~5.0A	±10%	2.0V	85.0%
PLC-60-15	15V, 0~4.0A	±10%	2.4V	86.0%
PLC-60-20	20V, 0~3.0A	±10%	1.8V	87.5%
PLC-60-24	24V, 0~2.5A	±10%	2.4V	87.0%
PLC-60-27	27V, 0~2.3A	±10%	2.7V	88.0%
PLC-60-36	36V, 0~1.7A	±10%	3.6V	89.0%
PLC-60-48	48V, 0~1.3A	±10%	4.6V	89.0%

■ 45W NEW PLC-45

Model No.	Output	Tol.	R&N	Effi.
PLC-45-12	12V, 0~3.8A	±10%	2.0V	83.5%
PLC-45-15	15V, 0~3.0A	±10%	2.4V	85.0%
PLC-45-20	20V, 0~2.3A	±10%	1.8V	86.5%
PLC-45-24	24V, 0~1.9A	±10%	2.7V	86.5%
PLC-45-27	27V, 0~1.7A	±10%	2.7V	86.5%
PLC-45-36	36V, 0~1.25A	±10%	3.6V	87.5%
PLC-45-48	48V, 0~0.95A	±10%	4.6V	87.5%

■ 96W PLC-100

Model No.	Output	Tol.	R&N	Effi.
PLC-100-12	12V, 0~5.00A	±3%	150mV	84.5%
PLC-100-15	15V, 0~5.00A	±3%	150mV	86.5%
PLC-100-20	20V, 0~4.80A	±3%	150mV	90.0%
PLC-100-24	24V, 0~4.00A	±3%	150mV	90.0%
PLC-100-27	27V, 0~3.55A	±3%	150mV	90.0%
PLC-100-36	36V, 0~2.65A	±2%	150mV	90.0%
PLC-100-48	48V, 0~2.00A	±2%	200mV	89.0%



Features

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage / Over temp.
- **Built-in active PFC function, PF>0.9 for 75% of load or higher**
- IP67 / IP65 design for indoor or outdoor installations (except for C type)
- Output current adjustable through output cable or internal potential meter (CLG-150)
- UL1310 class 2 power unit (CLG-60&100)
- Cooling by free air convection
- Suitable for LED lighting and moving sign applications
- Multiple models for CLG-150
 - A-Type: IP65 rated. Output and constant current level can be adjusted through internal potential meter
 - B-Type: IP67 rated and constant current level adjustable through output cable
 - C-Type: Non IP. Terminal block for I/O connection
 - Blank-Type: IP67 rated, cable for I/O connection
- 3 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.	CLG-60	CLG-100	CLG-150
AC input voltage range	90~295VAC; 127~417VDC		
AC inrush current (max.)	Cold start, 40A at 230VAC		Cold start, 65A at 230VAC
DC adjustment range	Fixed. Can be modified between 90%~110% (CLG-60) or 85%~100% (CLG-100) rated output voltage		A and C type can be adjusted by internal potential meter
Current adjustment range	Fixed. Can be modified between 75%~103% rated output current		Can be adjusted by internal potential meter (A and C type) or through output cable (B type)
Overload protection	95%~110% constant current, auto-recovery	95%~102% constant current, auto-recovery	95%~108% constant current limiting, auto-recovery
Over voltage protection	110%~140%	107%~135%	110%~142% rated output voltage
Setup, rise, hold up time	3000ms(setup time), no hold up time	1200ms, 80ms, 60ms at full load and 230VAC	3000ms, 80ms, 50ms at full load and 230VAC
Withstand voltage	I/P-O/P: 3.75kVAC, I/P-FG: 1.88kVAC, O/P-FG: 0.5kVAC		
Working temperature	-30~+70°C (refer to output derating curve)		
Safety standards	UL1310 Class 2, EN61347-1, EN61347-2-13, CAN/CSA-C22.2 No.223-M91 (except for 48V), UL879 (SAM list), UL8750 approved; UL60950-1, TUV EN60950-1 (CLG-100 only)		UL60950-1, UL1012, TUV EN60950-1, EN61347-1, EN61347-2-13 approved
EMC standards	EN55015, EN55022 class B, EN61000-3-2 class C, EN61000-4-2,3,4,5,6,8,11, ENV50204, EN61547		
Connection	Input	UL rated, 18AWGx3C (30cm)	UL rated, 18AWGx3C (30cm); Terminal block for C type option
	Output	UL rated, 18AWGx2C (30cm)	□= A & Blank type: 14AWGx2C (30cm) □= B type: 14AWGx2C (30cm)+18AWGx2C (30cm) □= C type: Terminal block
Dimension (LxWxH)(mm)	195.6x 61.5x 38.8	222.2x 68x 38.8	A/B/Blank-Type: 222.2x 68x 38.8; C-Type: 229x 68x 38.8

60W (Class 2) CLG-60

Model No.	Output	Tol.	R&N	Effi.
CLG-60-12	12V, 0~5.0A	±10%	2.0V	85.0%
CLG-60-15	15V, 0~4.0A	±10%	2.4V	86.0%
CLG-60-20	20V, 0~3.0A	±10%	1.8V	87.5%
CLG-60-24	24V, 0~2.5A	±10%	2.7V	87.0%
CLG-60-27	27V, 0~2.3A	±10%	2.7V	88.0%
CLG-60-36	36V, 0~1.7A	±10%	3.6V	89.0%
CLG-60-48	48V, 0~1.3A	±10%	4.6V	89.0%

96W (Class 2) CLG-100

Model No.	Output	Tol.	R&N	Effi.
CLG-100-12	12V, 0~5.00A	±3%	150mV	84.5%
CLG-100-15	15V, 0~5.00A	±3%	150mV	86.5%
CLG-100-20	20V, 0~4.80A	±3%	150mV	90.0%

Model No.	Output	Tol.	R&N	Effi.
CLG-100-24	24V, 0~4.00A	±3%	150mV	90.0%
CLG-100-27	27V, 0~3.55A	±3%	150mV	90.0%
CLG-100-36	36V, 0~2.65A	±2%	150mV	90.0%
CLG-100-48	48V, 0~2.00A	±2%	200mV	89.0%

150W CLG-150

Model No.	Output	Tol.	R&N	Effi.
CLG-150-12 A	12V, 0~11.0A	±2%	150mV	88.0%
CLG-150-15 A	15V, 0~9.50A	±2%	150mV	88.0%
CLG-150-20 A	20V, 0~7.50A	±2%	150mV	90.0%
CLG-150-24 A	24V, 0~6.30A	±1%	150mV	90.0%
CLG-150-30 A	30V, 0~5.00A	±1%	150mV	91.0%
CLG-150-36 A	36V, 0~4.20A	±1%	150mV	91.0%
CLG-150-48 A	48V, 0~3.20A	±1%	200mV	92.0%

□= A, B, C or blank

Connector Size	Pin Configuration (Female)			Connector Size	Pin Configuration (Female)
M12				M15	
	2-pin	4-pin	5-pin		2-pin
	5A/PIN	5A/PIN	5A/PIN		12A / PIN
Order No.	M12-02	M12-04	M12-05	Order No.	M15-02
Suitable Current	5A max.	10A max.	10A max.	Suitable Current	12A max.

► Mean Well offer multiple kinds of waterproof connectors as the optional part for users to choose from. Minimum order quantity may vary for different models.

60W, 75W Single Output LED Power Supply

- Universal AC input (up to 295VAC)
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Built-in active PFC function, PF>0.9 for 75% of load or higher
- IP66 design
- Cooling by free air convection
- Suitable for LED lighting and moving sign applications
- Suitable for dry, damp, wet location and outdoor applications
- 3 years warranty



AC input voltage range 90~295VAC; 127~417VDC
 AC inrush current Cold start, 45A at 230VAC
 DC adjustment range $\pm 10\%$ rated output voltage
 Current adjustment range 75%~100% rated output current
 Overload protection 95%~110% constant current, auto-recovery
 Over voltage protection 110%~140% shut off, re-power on to recovery
 Setup time 1400ms at full load and 230VAC
 Withstand voltage I/P - O/P: 3.75kVAC, I/P-FG: 1.88kVAC, O/P-FG: 0.5kVAC
 Working temperature -30°C~+70°C (refer to output derating curve)
 Safety standards UL8750, TUV EN61347-1, EN61347-2-13 approved
 EMC standards EN55015, EN61000-3-2 Class C, EN61000-4-2,3,4,5,6,8,11, ENV50204, EN61547
 Packing 0.56Kg ; 24pcs / 14.4Kg / 1.11CUFT

❖ CEN-60 series

Model No.	Output	Tol.	R&N	Effi.
CEN-60-12	12V, 0~5.0A	$\pm 10\%$	2.0V	86%
CEN-60-15	15V, 0~4.0A	$\pm 10\%$	2.4V	87%
CEN-60-20	20V, 0~3.0A	$\pm 10\%$	1.8V	88%
CEN-60-24	24V, 0~2.5A	$\pm 10\%$	2.4V	89%
CEN-60-30	30V, 0~2.0A	$\pm 10\%$	3.0V	90%
CEN-60-36	36V, 0~1.7A	$\pm 10\%$	3.6V	90%
CEN-60-42	42V, 0~1.45A	$\pm 10\%$	4.0V	90%
CEN-60-48	48V, 0~1.3A	$\pm 10\%$	4.6V	91%
CEN-60-54	54V, 0~1.15A	$\pm 10\%$	5.0V	91%

❖ CEN-75 series

Model No.	Output	Tol.	R&N	Effi.
CEN-75-15	15V, 0~5.0A	$\pm 10\%$	2.7V	87%
CEN-75-20	20V, 0~3.75A	$\pm 10\%$	2.0V	88%
CEN-75-24	24V, 0~3.15A	$\pm 10\%$	2.7V	89%
CEN-75-30	30V, 0~2.5A	$\pm 10\%$	3.0V	90%
CEN-75-36	36V, 0~2.1A	$\pm 10\%$	3.6V	90%
CEN-75-42	42V, 0~1.8A	$\pm 10\%$	4.0V	90%
CEN-75-48	48V, 0~1.57A	$\pm 10\%$	4.6V	91%
CEN-75-54	54V, 0~1.4A	$\pm 10\%$	5.0V	91%

96W Single Output LED Power Supply

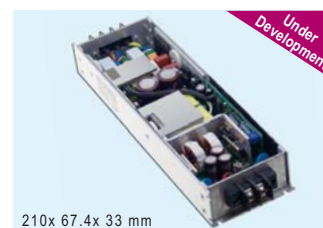


- Universal AC input (up to 295VAC)
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Built-in active PFC function
- IP66 design
- Cooling by free air convection
- Suitable for LED lighting and moving sign applications
- Suitable for dry, damp, wet location and outdoor applications
- 3 years warranty

AC input voltage range 90~295VAC; 127~417VDC
 AC inrush current Cold start, 60A at 230VAC
 DC adjustment range $\pm 10\%$ rated output voltage
 Current adjustment range 75%~100% rated output current
 Overload protection 95%~110% constant current, auto-recovery
 Over voltage protection 110%~135% shut off, re-power on to recover
 Setup time 3000ms at full load and 230VAC
 Withstand voltage I/P - O/P: 3.75kVAC, I/P-FG: 1.88kVAC, O/P-FG: 0.5kVAC
 Working temperature -30°C~+70°C (refer to output derating curve)
 Safety standards UL8750, TUV EN61347-1, EN61347-2-13 approved
 EMC standards EN55015, EN61000-3-2 Class C, EN61000-4-2,3,4,5,6,8,11, ENV50204, EN61547

Model No.	Output	Tol.	R&N	Effi.
CEN-100-20	20V, 0~4.8A	$\pm 10\%$	2.0V	88%
CEN-100-24	24V, 0~4.0A	$\pm 10\%$	2.7V	89%
CEN-100-30	30V, 0~3.2A	$\pm 10\%$	3.0V	90%
CEN-100-36	36V, 0~2.65A	$\pm 10\%$	3.6V	90%
CEN-100-42	42V, 0~2.28A	$\pm 10\%$	4.0V	90%
CEN-100-48	48V, 0~2.0A	$\pm 10\%$	4.6V	91%
CEN-100-54	54V, 0~1.77A	$\pm 10\%$	5.0V	91%

150W U-Bracket Single Output LED Power Supply



- Universal AC input / Full range (up to 305VAC)
- Built-in active PFC compliance to EN61000-3-2 class C
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- U-bracket low profile: 33mm
- 3 years warranty

AC input voltage range 90~305VAC; 127~431VDC
 AC inrush current Cold start, 65A at 230VAC
 Overload protection 130%~170% hiccup mode, auto-recovery
 Over voltage protection 110%~135% hiccup mode, auto-recovery
 Setup, rise, hold up time 2000ms, 100ms, 16ms at full load and 230VAC
 Withstand voltage I/P - O/P: 3.75kVAC, I/P-FG: 1.5kVAC, O/P-FG: 0.5kVAC
 Working temperature -40°C~+70°C (refer to output derating curve)
 Safety standards Design refer to UL8750, UL60950-1, TUV EN60950-1, EN61347-1, EN61347-2-13
 EMC standards EN55015, EN55022 class B, EN61000-3-2 Class C, EN61547, ENV50204, EN61000-4-2,3,4,5,6,8,11

Model No.	Output	Tol.	R&N	Effi.
ULP-150-12	12V, 0~12.5A	$\pm 2\%$	100mV	91.5%
ULP-150-15	15V, 0~10.0A	$\pm 2\%$	100mV	91.5%
ULP-150-24	24V, 0~6.30A	$\pm 2\%$	150mV	93.0%
ULP-150-36	36V, 0~4.20A	$\pm 2\%$	200mV	93.0%
ULP-150-48	48V, 0~3.20A	$\pm 2\%$	200mV	93.0%



We provide specification, drawing, test report and more information, please visit our website —

<http://www.meanwell.com>



Features

- Universal AC input / Full range (up to 305VAC)
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Built-in active PFC, PF>0.9 for 50% of load or higher
- IP67 / IP65 design for indoor or outdoor installations
- Output current adjustable through output cable or internal potential meter
- Cooling by free air convection
- Suitable for LED lighting and street lighting applications
- Multiple models for choice:
 - A-Type: IP65 rated. Output and constant current level can be adjusted through internal potential meter
 - B-Type: IP67 rated and equipped with 1~10VDC, PWM, and resistance dimming function
 - Blank-Type: IP67 rated, cable for I/O connection
- 3 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)

UL / CUL / TUV / CE pending

Model No.		HLG-80H Under Development	HLG-100 Available by Request	HLG-120 NEW
AC input voltage range		□ = Blank or H type ; Blank: 90~264VAC, 127~370VDC ; H type: 90~305VAC, 127~431VDC		
AC inrush current (max.)		Cold start, 70A at 230VAC	Cold start, 75A at 230VAC	
DC adjustment range		±10% rated output voltage		
Current adjustment range		50%~100% rated output current adjustable by internal potential meter or through output cable		
Overload protection		95%~108% constant current limiting, auto-recovery		
Over voltage protection		110%~140% rated output voltage		
Setup, rise, hold up time		1000ms, 80ms, 16ms at full load and 230VAC	2500ms, 50ms, 16ms at full load and 230VAC	
Withstand voltage		I/P-O/P: 3.75kVAC, I/P-FG: 1.88kVAC, O/P-FG:0.5kVAC		
Working temperature		-30~+70°C (refer to output derating curve)		
Safety standards		Design refer to UL60950-1, UL8750, TUV EN60950-1, EN61347-1, EN61347-2-13		
EMC standards		EN55015, EN55022 class B, EN61000-3-2 class C, EN61000-4-2,3,4,5,6,8,11, ENV50204, EN61547		
Connection	Input	UL rated, 18AWGx3C (30cm)		
	Output	A & Blank type: 14AWGx2C (30cm) ; B type: 14AWGx2C (30cm)+18AWGx2C (30cm)		
Dimension (LxWxH)(mm)		195.6x 61.5x 38.8	212.2x 68x 38.8	

80W Under Development HLG-80

Model No.	Output	Tol.	R&N	Effi.
HLG-80H-12(A)	12V, 0~5.0A	±2.5%	150mV	88.0%
HLG-80H-15(A)	15V, 0~5.0A	±2.0%	150mV	89.0%
HLG-80H-20(A)	20V, 0~4.0A	±1.0%	150mV	90.5%
HLG-80H-24(A)	24V, 0~3.4A	±1.0%	150mV	91.0%
HLG-80H-30(A)	30V, 0~2.7A	±1.0%	200mV	91.0%
HLG-80H-36(A)	36V, 0~2.3A	±1.0%	200mV	91.0%
HLG-80H-42(A)	42V, 0~1.95A	±1.0%	200mV	91.0%
HLG-80H-48(A)	48V, 0~1.7A	±1.0%	200mV	91.0%
HLG-80H-54(A)	54V, 0~1.5A	±1.0%	200mV	91.0%

○ = A, B or Blank

120W NEW HLG-120

Model No.	Output	Tol.	R&N	Effi.
HLG-120□-12(A)	12V, 0~10A	±2.5%	150mV	92.5%
HLG-120□-15(A)	15V, 0~8.0A	±2.0%	150mV	92.5%
HLG-120□-20(A)	20V, 0~6.0A	±1.0%	150mV	94.0%
HLG-120□-24(A)	24V, 0~5.0A	±1.0%	150mV	94.0%
HLG-120□-30(A)	30V, 0~4.0A	±1.0%	200mV	94.0%
HLG-120□-36(A)	36V, 0~3.4A	±1.0%	200mV	94.0%
HLG-120□-42(A)	42V, 0~2.9A	±1.0%	200mV	94.0%
HLG-120□-48(A)	48V, 0~2.5A	±1.0%	200mV	94.5%
HLG-120□-54(A)	54V, 0~2.3A	±1.0%	200mV	94.5%

□ = Blank or H type; ○ = A, B or Blank

96W Available by Request HLG-100

Model No.	Output	Tol.	R&N	Effi.
HLG-100□-12(A)	12V, 0~5.0A	±2.5%	150mV	91.5%
HLG-100□-15(A)	15V, 0~5.0A	±2.0%	150mV	91.5%
HLG-100□-20(A)	20V, 0~4.8A	±1.0%	150mV	93.5%
HLG-100□-24(A)	24V, 0~4.0A	±1.0%	150mV	93.5%
HLG-100□-30(A)	30V, 0~3.2A	±1.0%	200mV	93.5%
HLG-100□-36(A)	36V, 0~2.65A	±1.0%	200mV	93.5%
HLG-100□-42(A)	42V, 0~2.28A	±1.0%	200mV	93.5%
HLG-100□-48(A)	48V, 0~2.0A	±1.0%	200mV	94.0%
HLG-100□-54(A)	54V, 0~1.77A	±1.0%	200mV	94.0%

□ = Blank or H type; ○ = A, B or Blank

80W Single Output with High Efficiency

Under Development

- Full range input up to 305VAC
- Built-in active PFC function
- High efficiency up to 92%
- Constant current design
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Output models: 12 / 15 / 20 / 24 / 30 / 36 / 42 / 48 / 54V
- Dimension(LxWxH): Enclosed type(IP64): 181x 61.5x 35mm
Open Frame type: 152x 53x 26mm



Features

- Universal AC input / Full range (up to 305VAC)
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Built-in active PFC, PF>0.9 for 65% of load or higher
- IP67 / IP65 design for indoor or outdoor installations (except for C type)
- Output current adjustable through output cable or internal potential meter
- Cooling by free air convection
- Suitable for LED lighting and street lighting applications
- Multiple models for choice:
 - A-Type: IP65 rated. Output and constant current level can be adjusted through internal potential meter
 - B-Type: IP67 rated and equipped with 1~10VDC, PWM, and resistance dimming function (except for 240W)
 - C-Type: Terminal block for I/O connection (HLG-240/320)
 - Blank-Type: IP67 rated, cable for I/O connection
- 3 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.	HLG-150 ☐ Available by Request	HLG-185 ☐ NEW	HLG-240 ☐ NEW	HLG-320 ☐ Under Development
AC input voltage range	☐ = Blank or H type ; Blank: 90~264VAC, 127~370VDC ; H type: 90~305VAC, 127~431VDC			
AC inrush current (max.)	Cold start, 75A at 230VAC			
DC adjustment range	±10% rated output voltage		±6% rated output voltage	
Current adjustment range	50%~100% rated output current adjustable by internal potential meter or through output cable			
Overload protection	95%~108% constant current limiting, auto-recovery			
Over voltage protection	110%~140% rated output voltage			
Setup, rise, hold up time	2500ms,50ms,16ms at full load and 230VAC		2500ms,80ms,15ms at full load and 230VAC	
Withstand voltage	I/P-O/P: 3.75kVAC, I/P-FG: 1.88kVAC, O/P-FG: 0.5kVAC			
Working temperature	-30~+70°C (refer to output derating curve)			
Safety standards	UL60950-1, UL1012, TUV EN60950-1, EN61347-1, EN61347-2-13 approved (HLG-185 / 320 pending); Design refer to UL8750			
EMC standards	EN55015, EN55022 class B, EN61000-3-2 class C, EN61000-4-2,3,4,5,6,8,11, ENV50204, EN61547			
Connection	Input	UL rated, 18AWGx3C (30cm); Terminal block for C type (HLG-240 ☐ only)		
	Output	A & Blank type: 14AWGx2C (30cm) ; B type: 14AWGx2C (30cm)+18AWGx2C (30cm); C type: Terminal block (HLG-240/320 ☐)		
Dimension (LxWxH)(mm)	A / B / Blank-Type: 222.2x 68x 38.8		A / B / Blank-Type: 244.2x 68x 38.8 C-Type: 251x 68x 38.8	A / B / Blank-Type: 195x 90x 42 C-Type: 202x 90x 42

150W Available by Request HLG-150

Model No.	Output	Tol.	R&N	Effi.
HLG-150 ☐ -12(A)	12V, 0~12.5A	±2.5%	150mV	92.0%
HLG-150 ☐ -15(A)	15V, 0~10.0A	±2.0%	150mV	92.0%
HLG-150 ☐ -20(A)	20V, 0~7.50A	±1.0%	150mV	93.0%
HLG-150 ☐ -24(A)	24V, 0~6.25A	±1.0%	150mV	93.0%
HLG-150 ☐ -30(A)	30V, 0~5.00A	±1.0%	200mV	93.0%
HLG-150 ☐ -36(A)	36V, 0~4.20A	±1.0%	200mV	93.0%
HLG-150 ☐ -42(A)	42V, 0~3.60A	±1.0%	200mV	93.0%
HLG-150 ☐ -48(A)	48V, 0~3.20A	±1.0%	200mV	93.5%
HLG-150 ☐ -54(A)	54V, 0~2.80A	±1.0%	200mV	93.5%

☐ = Blank or H type ; ☐ = A, B or Blank

240W NEW HLG-240

Model No.	Output	Tol.	R&N	Effi.
HLG-240 ☐ -12(A)	12V, 0~16.0A	±2.5%	150mV	90.0%
HLG-240 ☐ -15(A)	15V, 0~15.0A	±2.0%	150mV	90.0%
HLG-240 ☐ -20(A)	20V, 0~12.0A	±1.0%	150mV	92.0%
HLG-240 ☐ -24(A)	24V, 0~10.0A	±1.0%	150mV	93.0%
HLG-240 ☐ -30(A)	30V, 0~8.00A	±1.0%	200mV	93.0%
HLG-240 ☐ -36(A)	36V, 0~6.70A	±1.0%	250mV	93.5%
HLG-240 ☐ -42(A)	42V, 0~5.72A	±1.0%	250mV	94.0%
HLG-240 ☐ -48(A)	48V, 0~5.00A	±1.0%	250mV	94.0%
HLG-240 ☐ -54(A)	54V, 0~4.45A	±1.0%	350mV	94.0%

☐ = Blank or H type ; ☐ = A, B, C or Blank

185W NEW HLG-185

Model No.	Output	Tol.	R&N	Effi.
HLG-185 ☐ -12(A)	12V, 0~13.0A	±2.5%	150mV	92.5%
HLG-185 ☐ -15(A)	15V, 0~11.5A	±2.0%	150mV	92.5%
HLG-185 ☐ -20(A)	20V, 0~9.30A	±1.0%	150mV	94.0%
HLG-185 ☐ -24(A)	24V, 0~7.80A	±1.0%	150mV	94.0%
HLG-185 ☐ -30(A)	30V, 0~6.20A	±1.0%	200mV	94.0%
HLG-185 ☐ -36(A)	36V, 0~5.20A	±1.0%	200mV	94.0%
HLG-185 ☐ -42(A)	42V, 0~4.40A	±1.0%	200mV	94.0%
HLG-185 ☐ -48(A)	48V, 0~3.90A	±1.0%	200mV	94.5%
HLG-185 ☐ -54(A)	54V, 0~3.45A	±1.0%	200mV	94.5%

☐ = Blank or H type ; ☐ = A, B or Blank

320W Under Development HLG-320

Model No.	Output	Tol.	R&N	Effi.
HLG-320 ☐ -12(A)	12V, 0~22.0A	±2.5%	150mV	90.5%
HLG-320 ☐ -15(A)	15V, 0~19.0A	±2.0%	150mV	90.5%
HLG-320 ☐ -20(A)	20V, 0~15.0A	±1.0%	150mV	92.5%
HLG-320 ☐ -24(A)	24V, 0~13.3A	±1.0%	150mV	93.5%
HLG-320 ☐ -30(A)	30V, 0~10.7A	±1.0%	200mV	93.5%
HLG-320 ☐ -36(A)	36V, 0~8.90A	±1.0%	250mV	94.0%
HLG-320 ☐ -42(A)	42V, 0~7.60A	±1.0%	250mV	94.5%
HLG-320 ☐ -48(A)	48V, 0~6.70A	±1.0%	250mV	94.5%
HLG-320 ☐ -54(A)	54V, 0~5.95A	±1.0%	350mV	94.5%

☐ = Blank or H type ; ☐ = A, B, C or Blank



■ Features

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage / Over temperature (PLP-20 only)
- Built-in active PFC function, PF>0.9 for 75% of load or higher
- Cooling by free air convection
- Built-in constant current limiting circuit (C.C.+C.V. mode)
- 100% full load burn-in test
- Suitable for building in LED lighting systems
- 2 years warranty

■ General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.		PLP-20 NEW	PLP-30	PLP-45 NEW	PLP-60
AC input voltage range		90~277VAC; 127~392VDC		90~264VAC; 127~370VDC	
AC inrush current (max.)		Cold start, 40A at 230VAC			Cold start, 42A at 230VAC
Current adjustment range		75%~100% rated output current			
Overload Protection	Range	95%~110%	100% ~ 110%		
	Type	Constant current limiting, auto-recovery			
Over voltage protection		115%~135% shut off, re-power on to recover			
Setup, rise, hold up time		2300ms, 200ms at full load and 230VAC, no hold up time	1000ms(setup time) at full load and 230VAC, no hold up time		
Withstand voltage		I/P-O/P: 3.75kVAC	I/P-O/P: 3.75kVAC, I/P-FG: 1.88kVAC, O/P-FG: 0.5kVAC		
Working temperature		-30~+60°C (refer to output derating curve)	-30~+70°C (refer to output derating curve)		
Safety standards		TUV EN61347-1, EN61347-2-13 UL8750 (PLP-20 only) approved			
EMC standards		EN55015, EN61000-3-2 Class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547			
Connection		UL rated, 18AWGx2C (30cm)	3+2P / 3.96mm pitch, JST P/N: B3P / B2P-VH		
Dimension (LxWxH)(mm)		140x 32x 22	101.6x 50.8x 25	101.6x 50.8x 28	

■ PLP-20 Series **NEW**

Model No.	Output	Tol.	R&N	Effi.
PLP-20-12	12V, 0~1.6A	±10%	2.5V	80.0%
PLP-20-18	18V, 0~1.1A	±10%	3.0V	81.0%
PLP-20-24	24V, 0~0.8A	±10%	3.0V	82.0%
PLP-20-36	36V, 0~0.55A	±10%	3.0V	83.0%
PLP-20-48	48V, 0~0.42A	±10%	3.8V	83.5%

■ PLP-30 Series

Model No.	Output	Tol.	R&N	Effi.
PLP-30-12	12V, 0~2.5A	±10%	2.0V	83.0%
PLP-30-24	24V, 0~1.3A	±10%	2.4V	85.5%
PLP-30-48	48V, 0~0.63A	±10%	4.8V	86.5%

■ PLP-45 Series **NEW**

Model No.	Output	Tol.	R&N	Effi.
PLP-45-12	12V, 0~3.8A	±10%	4.2V	86%
PLP-45-24	24V, 0~1.9A	±10%	3.8V	89%
PLP-45-48	48V, 0~0.95A	±10%	4.8V	89%

■ PLP-60 Series

Model No.	Output	Tol.	R&N	Effi.
PLP-60-12	12V, 0~5.0A	±10%	4.5V	84%
PLP-60-24	24V, 0~2.5A	±10%	4.5V	88%
PLP-60-48	48V, 0~1.3A	±10%	4.8V	89%

16W/25W Single Output AC Dimmable LED Power Supply

Under Development

- 115VAC(90~135VAC) or 230VAC(180~295VAC) input
- Built-in active PFC function
- Constant current design
- Fully isolated plastic case
- Class II design, without FG
- Work with leading edge and trailing edge dimmers
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Output models: 350mA / 700mA / 1050mA / 1400mA
- Dimension(LxWxH): 80x 58x 30mm
- 3 years warranty

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— "MEAN WELL" tries to be —

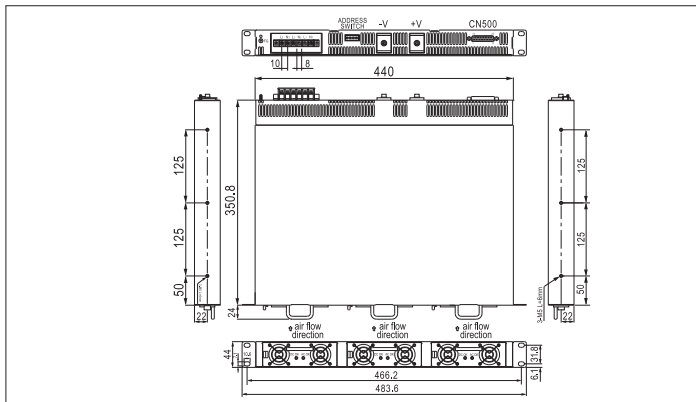
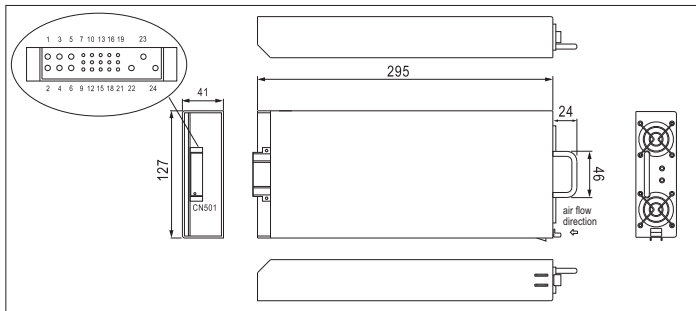
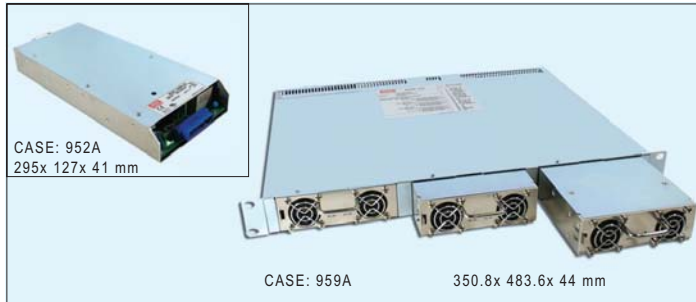
To satisfy our customers is our goal —

- High Quality
- Low Cost
- Prompt Delivery
- Best Service

1000W 1U Rack Power System

- Universal AC input / Full range
- Built-in 5V/0.3A standby power
- Built-in active PFC function, PF>0.96
- Protections: Short circuit / Overload Over voltage / Over temp.
- Forced air cooling by built-in DC fan
- High power density 10.7W/in³
- 1U low profile
- Output voltage can be trimmed between 90 ~ 110% of the rated output voltage
- Active current sharing up to 3000W (3 units) in one 19" rack, 3 racks max. can be operated in parallel (up to 8 units)
- Remote control for single unit
- Built-in remote sense function
- Hot-swap operation
- Internal oring diode
- AC OK and DC OK signal output
- Optional I²C serial data bus
- 3 years warranty

Parallel



- AC input voltage range 90~264VAC
 DC adjustment range $\pm 3\%$ rated output voltage
 Overload protection 105%~125% constant current limiting, auto-recovery
 Over voltage protection 110%~135% rated output voltage
 Setup, rise, hold up time 1000ms, 60ms, 16ms at full load and 230VAC
 Withstand voltage I/P-O/P:3kVAC, I/P-FG:1.5kVAC, 1 minute
 Working temperature -20~50°C@100%, 60°C@60%
 Safety standards UL60950-1, TUV EN60950-1 approved
 EMC standards EN55022 Class B, EN61204-3, EN61000-3-2,-3, EN61000-4-2,3,4,5,6,8,11, ENV50204, EN61000-6-2 heavy industry level
 Packing 1.91kg (single unit) ; 11kg (rack with 3 units)

Model No.	Output	Tol.	R&N	Effi.
RCP-1000-12	12V, 0~60A	$\pm 1\%$	150mV	81%
RCP-1000-24	24V, 0~40A	$\pm 1\%$	200mV	87%
RCP-1000-48	48V, 0~21A	$\pm 1\%$	300mV	89%
19" 1U rack for RCP-1000 series				
□= I: AC inlet ; T: terminal block				

Power Control and Monitor Unit

- 1U low profile
- 19-inch rack mounting
- I²C decoder, control and monitor up to 3 RCP-1000-□-C units
- Suitable for all kinds of RCP output (12V,24V,48V)
- Digital meters for output voltage, output current, and internal temperature on front panel
- Potential meter for adjusting output voltage of RCP-1000 unit on front panel
- Relay contacts and LED indicators for AC fail, DC fail, and over temperature warning
- Removable fixing accessory
- 3 years warranty

CE



- AC input voltage range 90~264VAC
 AC inrush current Cold start, 30A at 115VAC, 50A at 230VAC
 Relay contact rating 30VDC, 1A
 Working temperature -20~60°C
 Safety standards Design refer to UL60950-1, TUV EN60950-1
 Withstand voltage I/P-O/P:3kVAC, I/P-FG:1.5kVAC, O/P-FG:0.5kVAC
 Isolation resistance I/P-O/P, I/P-FG, O/P-FG: 100M Ohms/500VDC
 EMC standards Compliance to EN55022, EN61000-3-2,-3, EN61000-4-2,3,4,5,6,8,11
 Contention Screw DIN terminal for AC input and relay contact output; D-Type right angle 25 positions for communication port

Model No.	Application
RCP-MU	Control and monitor RCP series

2000W 1U Rack Power System

Under Development

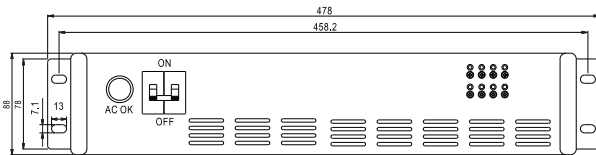
- 1U low profile
- Universal AC input / Full range
- Built-in 5V / 0.3A, 12V / 0.8A auxiliary power
- Built-in active PFC function
- Protections: Short circuit / Overload Over voltage / Over temperature
- High power density 21.4W/inch³
- Forced air cooling by built-in DC fan
- Active current sharing to 6000W (3 units) in one 19" rack. 3 racks max. can be operated in parallel up to 18000W
- Hot-swap operation
- Built-in remote control, remote sense function
- AC OK, DC OK, OTP alarm and fan fail alarm signal
- PMBus serial communications
- 3 years warranty

19" Rack Power

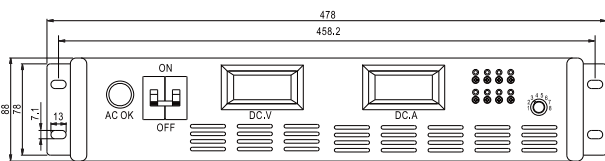
Custom-Made 19" 2U Rack Power System

- Standard 19" 2U rack – 480 x 420 x 80mm
- Custom rack configurations available, 4500W max., up to 8 outputs
- LED indicators on front panel
- Meters for output voltage and current on front panel
- Front panel voltage adjustment
- Wide range of backplane connection option
- Choose from MEAN WELL's wide range of standard power supply
- Complete assembly and testing on your custom rack system
- Engineering support available to assist you in specifying your requirement
- 2 years warranty

Panel Type A: with power switch, LED indicators, and output adjustment potentiometers.



Panel Type B: with additional digital meters and selector switch.



Example

❖12V, 4500W 2U Rack System

- RSP-1500-12 x 3pcs
- LED indicators and front panel voltage adjustment
- Output voltage and current digital meters
- I/O interface:
 - AC Input — Terminal block
 - DC Output — Copper pillars
 - Single Output — Terminal block



We provide specification, drawing, test report and more information, please visit our website —
<http://www.meanwell.com>



Customer Satisfaction —

Today's effort, tomorrow's reward. Continuously improve CQTS to satisfy customer is our goal.

ARCP Series 19" Rack Charger System



- Operate as a power supply & smart charger
- Universal AC input / Full range
- Built-in active PFC function, PF>0.96
- Protection: Short circuit / Overload / Over voltage / Over temperature
- Designed as N+1 redundancy power system
- Built-in active current sharing
- High efficiency up to 89%
- Output voltage trimming function
- Digital display indications of output voltage, current, and battery temperature
- Remote ON/OFF Control
- Four alarm functions:
 - AC fail, power module fault, over temperature, battery low
- Maximum protection for long battery life:
 - Battery low disconnect circuit
 - Battery current limiting function
 - Battery reverse polarity protection
- Case: Power Supply - up to three 19"/1 U racks
DC Distributor - 19"/2U rack

► Power Supply

Output Power (KW)	Output Voltage (VDC)	Output Current (A)	No. of RCP-1U Rack	Power Supply Module Type	Module Output Power (W)	No. of Modules
1.5	12	120	1	RCP-1000-12	720	2
2.2		180	1			3
1.9	24	80	1	RCP-1000-24	960	2
2.9		120	1			3
4.8		200	2			5
2	48	42	1	RCP-1000-48	1000	2
3		63	1			3
6		125	2			6
9		190	3			9

► Power Supply - Charger

Output Power (KW)	Output Voltage (VDC)	Output Current (A)	No. of RCP-1U Rack	Power Supply Module Type	Module Output Power (W)	No. of Modules
1.5	13.6	100	1	RCP-1000-13.5	720	2
2.2		160	1			3
2.9		200	2			4
1.9	27.2	70	1	RCP-1000-27	960	2
2.8		100	1			3
5.5		200	2			6
2	54.4	37	1	RCP-1000-54	1000	2
3		55	1			3
6		110	2			6
9		165	3			9



MP450 (450W, 5 SLOT)

MP650 (650W, 5 SLOT)

MP1K0 (1000W, 7 SLOT)



MS-75

MS-150

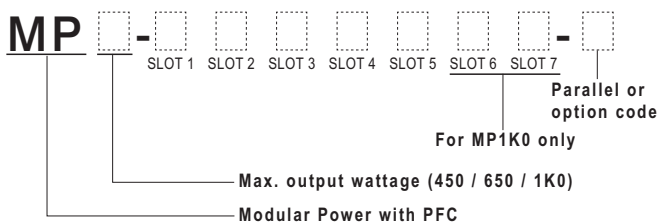
MS-300

MD-100

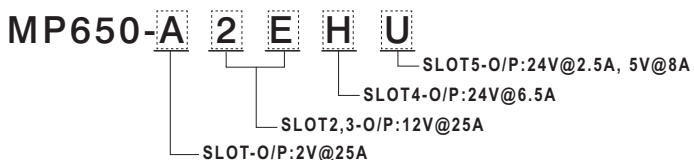
Description

Modular series are switching power supplies with modular design that consist of two stages: front-end PFC and output modules. Using ZVS (Zero Voltage Switching) technology to realize the power factor correction, the line input is rectified into high DC voltage (around 390Vdc) by the front-end PFC stage, and then the DC output modules will transfer the operating voltage into all kinds of DC output voltages from 1.6V~53V. Right now we offer 75W, 150W, 300W single output modules and 100W dual output modules to fulfill all kinds of applications up to 14 isolated outputs. There are millions of combinations available for the Modular series. Users can configure the DC outputs they need and get the fastest solution for their own power requirement with safety and EMC certificates. No more NRE / safety application charges and long period of waiting for certificates! Providing standard products as usual, MEAN WELL offer you a revolutionary standard power solution that fulfills your custom-made request!

Output Configuration Guide



Example:



Features

- Millions of output configuration is available
- Using ZVS technology to reduce power dissipation and improve efficiency
- Universal AC input / Full range
- Built-in active PFC compliance to EN61000-3-2
- Built-in constant current limiting circuit for single output modules
- Remote control on each output module
- Remote sense on each output module (MS-75/150/300)
- Short circuit / Overload / Over voltage protections for all modules
- Built-in parallel function for MS-300(up to 3 units)
- Cooling by built-in DC fan with fan alarm function
- Additional 12V/0.1A auxiliary output for remote control
- 3 years warranty

Modular Series



General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.	MP450	MP650	MP1K0
AC input voltage range	85~264VAC or 120~370VDC		
Power Factor	PF > 0.95 / 230VAC, PF > 0.98 / 115VAC at full load		
AC inrush current (max.)	Cold start, 40A at 230VAC	Cold start, 50A at 230VAC	Cold start, 40A at 230VAC
Max output voltage	450W	650W	1000W
Efficiency (typical)	83%	85%	84%
Over temperature protection	Output shutdown, auto-recovery		
Fan alarm	Output shutdown when fan malfunction		
Withstand voltage	I/P - O/P: 3kVAC, I/P - FG: 1.5kVAC, O/P - FG: 0.5kVAC, 1 minute		
Working temperature	-20~+50°C@100%, +70°C @ 50% load		
Safety standards	UL60950-1, TUV EN60950-1		
EMC standards	Compliance to EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, ENV50204, EN55024 light industry level, criteria A		
Connection	Input side: 3P/10mm pitch terminal block & JST B3B-XH		
Dimension (LxWxH)(mm)	254x 127x 63.5	278x 127x 63.5	278x 177.8x 63.5

MS-75: 1-SLOT single output (75W max.)

Item Code	Output	★Peak I	Vdc adj.	Tol.	R&N.
L	3.3V, 0~15A	17.3A	2.6~4.0V	±2%	80mV
M	5V, 0~15A	17.3A	4.0~6.0V	±2%	80mV
N	12V, 0~6.3A	7.30A	9.0~13.2V	±1%	150mV
O	15V, 0~5.0A	5.80A	13.2~16.8V	±1%	150mV
P	24V, 0~3.2A	3.70A	20.0~26.4V	±1%	150mV
Q	48V, 0~1.6A	1.80A	40.0~53.0V	±1%	250mV

MS-150: 1-SLOT single output (150W max.)

Item Code	Output	★Peak I	Vdc adj.	Tol.	R&N.
A	2V, 0~25A	30.0A	1.6~2.6V	±3%	50mV
B	3.3V, 0~25A	30.0A	2.6~4.0V	±2%	80mV
C	5V, 0~25A	30.0A	4.0~6.0V	±2%	80mV
D	7.5V, 0~18A	20.7A	6.0~9.0V	±2%	100mV
E	12V, 0~13A	15.0A	9.0~13.2V	±1%	150mV
F	15V, 0~10A	11.5A	13.2~16.8V	±1%	150mV
G	18V, 0~8.5A	9.80A	16.8~20.0V	±1%	150mV
H	24V, 0~6.5A	7.50A	20.0~26.4V	±1%	150mV
I	27V, 0~5.8A	6.70A	25.0~31.0V	±1%	150mV
J	33V, 0~4.7A	5.40A	30.0~40.0V	±1%	250mV
K	48V, 0~3.2A	3.68A	40.0~53.0V	±1%	250mV

MS-300: 2-SLOT parallelable single output (300W max.)

Item Code	Output	★Peak I	Vdc adj.	Tol.	R&N.
2A	2V, 0~50A	57.5A	1.6~2.6V	±3%	80mV
2B	3.3V, 0~50A	57.5A	2.6~4.0V	±2%	80mV
2C	5V, 0~50A	57.5A	4.0~6.0V	±2%	80mV
2D	7.5V, 0~40A	46.0A	6.0~9.0V	±2%	100mV
2E	12V, 0~25A	29.0A	9.0~13.2V	±1%	150mV
2F	15V, 0~20A	23.0A	13.2~16.8V	±1%	150mV
2G	18V, 0~16.7A	19.2A	16.8~20.0V	±1%	150mV
2H	24V, 0~12.5A	14.4A	20.0~26.4V	±1%	150mV
2I	27V, 0~11.2A	12.9A	25.0~31.0V	±1%	200mV
2J	33V, 0~9.1A	10.5A	30.0~40.0V	±1%	250mV
2K	48V, 0~6.3A	7.2A	40.0~53.0V	±1%	300mV

MD-100: 1-SLOT isolated dual output (100W max.)

Item Code	Output	Vdc adj.	Tol.	R&N.	Max.
R	5V, 2.0~10A	4.75~5.5V	±3%	100mV	90.0W
	5V, 0.0~8.0A	4.75~5.5V	±3%	100mV	
S	5V, 2.0~10A	4.75~5.5V	±3%	100mV	100.4W
	12V, 0.0~5.8A	11.4~13.2V	±3%	150mV	
T	5V, 2.0~10A	4.75~5.5V	±3%	100mV	101.0W
	15V, 0.0~4.7A	14.2~16.5V	±3%	150mV	
U	24V, 0.5~3.0A	22.8~26.4V	±3%	200mV	100.0W
	5V, 0.0~10A	4.75~5.5V	±3%	100mV	
V	24V, 0.6~3.0A	22.8~26.4V	±2%	240mV	100.8W
	12V, 0.0~4.7A	11.4~13.2V	±3%	120mV	
W	12V, 1.0~5.0A	11.4~13.2V	±2%	120mV	100.8W
	12V, 0.0~5.8A	11.4~13.2V	±3%	120mV	
X	15V, 1.0~4.7A	14.2~16.5V	±2%	150mV	100.5W
	15V, 0.0~4.7A	14.2~16.5V	±3%	150mV	

Parallel Connection Accessory

FAP-001 (For MS-300)	
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Series Connection Accessory

FAS-001 (For 1-slot modules)	
FAS-002 (For 2-slot modules)	

★Peak I: 35% duty cycle maximum within every 10 seconds. Average output power should not exceed the rated power.

★Please use MP450-CNPOQ, MP650-A2EHU, MP1K0-2C2CEKL-1.....etc. as the order code. For more detail information about technical issues, please refer to the user manual.

★Please refer to the user manual for more detail information about parallel connection and the parallel codes. About series connection, please contact us or your local MEAN WELL distributor for more details.



Features

- Universal AC input / Full range
- Ultra-miniature size
- Protections: Short circuit / Overload / Over voltage
- No load power consumption <0.5W (<0.75W for 20W models)
- Fully isolated plastic case
- Isolation class II (5~15W)
- Low leakage current < 200uA (20W)
- Cooling by free air convection
- Medical safety approved
- Meet industrial, IT safety requirements
- 100% full load burn-in test
- 3 years warranty



PM-05 / 10 / 15 Series				PM-20 Series	
	5W	10W	15W		
A	2.475" (62.85mm)	2.76" (70mm)	2.95" (75mm)		
B	1.85" (47mm)	2.13" (54mm)	2.441" (62mm)		
C	0.306" (7.8mm)	0.315" (8mm)	0.256" (6.5mm)		
D	1.97" (50mm)	1.97" (50mm)	2.09" (53mm)		
E	0.689" (17.5mm)	0.689" (17.5mm)	0.788" (20mm)		
F	0.295" (7.5mm)	0.295" (7.5mm)	0.256" (6.5mm)		
G	0.789" (20.04mm)	0.789" (20.04mm)	0.906" (23.01mm)		
H	0.59" (15mm)	0.59" (15mm)	0.59" (15mm)		
I	0.776" (19.7mm)	0.89" (22.7mm)	0.89" (22.7mm)		

General Specification

AC input voltage range 85~264VAC; 120~370VDC

Frequency range 47~440Hz

AC inrush current (max.) ... Cold start, 25A at 115VAC, 45A at 230VAC
(PM-15 : 30A at 115VAC, 50A at 230VAC)
(PM-20: 30A at 115VAC, 65A at 230VAC)

Overload protection >105% hiccup mode, auto recovery

Over voltage protection 115%~135% rated output voltage, shut off,
AC recycle to re-start

Setup, rise, hold up time ... 1000ms, 20ms, 100ms @ 230VAC
(PM-20: 500ms, 20ms, 50ms @ 230VAC)

Withstand voltage I/P-O/P: 4.0kVAC, 1 minute

Working temperature -20°C~70°C (refer to output derating curve)

Safety standards UL60601-1, TUV EN60601-1, UL60950-1 (PM-15)
approved

EMC standards EN55011, EN55022 Class B, EN61000-3-2,3
EN61000-4-2,3,4,5,6,8,11, ENV50204, EN55024,
EN60601-1-2, EN61204-3 Medical level, criteria A

Connection 4 industrial pins (20W: 6 industrial pins)

Packing 0.085kg ; 120pcs / 11.2kg / 0.97CUFT(PM-05)
0.105kg ; 120pcs / 13.6kg / 0.97CUFT(PM-10)
0.14kg ; 120pcs / 17.8kg / 0.97CUFT(PM-15)
0.18kg ; 90pcs / 17.2kg / 0.97CUFT(PM-20)

PM-05 Series

Model No.	Output	Tol.	R&N	Effi.
PM-05-3.3	3.3V, 0~1.25A	±3%	80mV	67%
PM-05-5	5V, 0~1.00A	±2%	80mV	71%
PM-05-12	12V, 0~0.42A	±2%	150mV	73%
PM-05-15	15V, 0~0.33A	±2%	150mV	74%
PM-05-24	24V, 0~0.23A	±2%	240mV	76%

PM-10 Series

Model No.	Output	Tol.	R&N	Effi.
PM-10-3.3	3.3V, 0~2.50A	±3%	80mV	66%
PM-10-5	5V, 0~2.00A	±2%	80mV	74%
PM-10-12	12V, 0~0.85A	±2%	150mV	78%
PM-10-15	15V, 0~0.67A	±2%	150mV	79%
PM-10-24	24V, 0~0.42A	±2%	240mV	79%

PM-15 Series

Model No.	Output	Tol.	R&N	Effi.
PM-15-3.3	3.3V, 0~3.50A	±3%	80mV	73%
PM-15-5	5V, 0~3.00A	±2%	80mV	76%
PM-15-12	12V, 0~1.25A	±2%	150mV	78%
PM-15-15	15V, 0~1.00A	±2%	150mV	79%
PM-15-24	24V, 0~0.63A	±2%	240mV	81%

PM-20 Series

Model No.	Output	Tol.	R&N	Effi.
PM-20-3.3	3.3V, 0~4.50A	±3%	80mV	71%
PM-20-5	5V, 0~4.40A	±2%	80mV	75%
PM-20-12	12V, 0~1.80A	±2%	150mV	81%
PM-20-15	15V, 0~1.40A	±2%	150mV	83%
PM-20-24	24V, 0~0.92A	±2%	240mV	84%



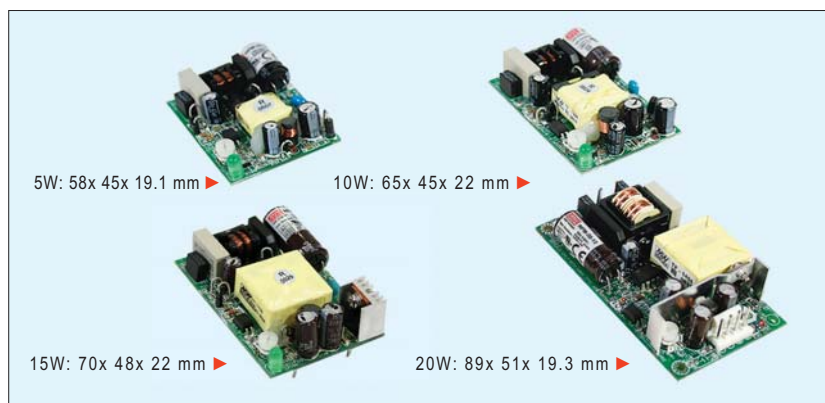
Energy Saving —

We care about energy saving. This logo represents that this model has "low no load power consumption"!



To Satisfy our customers is our goal —

- High Quality
- Low Cost
- Prompt Delivery
- Best Service

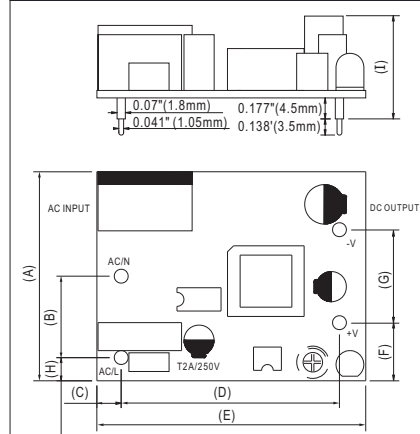


Features

- Universal AC input / Full range
- Ultra-miniature size, light weight
- Protections:
 - Short circuit / Overload / Over voltage / Over temp.
- No load power consumption <0.5W (<0.75W for 20W models)
- Isolation class II (5~15W)
- On-board type version available for 20W (optional)
- Low leakage current < 200uA (20W)
- Cooling by free air convection
- Medical safety approved
- Meet industrial, IT safety requirements
- 100% full load burn-in test
- 3 years warranty

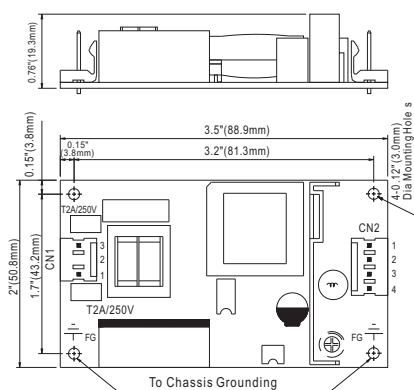


NFM-05 / 10 / 15 Series



	5W	10W	15W
A	1.77" (45mm)	1.77" (45mm)	1.89" (48mm)
B	0.689" (17.5mm)	0.689" (17.5mm)	0.788" (20mm)
C	0.21" (5.33mm)	0.22" (5.5mm)	0.157" (4mm)
D	1.85" (47mm)	2.13" (54mm)	2.441" (62mm)
E	2.28" (57.9mm)	2.56" (65mm)	2.75" (69.85mm)
F	0.491" (12.47mm)	0.491" (12.47mm)	0.492" (12.5mm)
G	0.789" (20.04mm)	0.789" (20.04mm)	0.906" (23.01mm)
H	0.196" (5mm)	0.196" (5mm)	0.157" (4mm)
I	0.75" (19.1mm)	0.87" (22mm)	0.87" (22mm)

NFM-20 Series



General Specification

AC input voltage range	85~264VAC; 120~370VDC
Frequency range	47-440Hz
AC inrush current (max.)	Cold start, 25A at 115VAC, 45A at 230VAC (NFM-15: 30A at 115VAC, 50A at 230VAC) (NFM-20: 30A at 115VAC, 65A at 230VAC)
DC adjustment range	±10% rated output voltage
Overload protection	>105% hiccup mode, auto recovery
Over voltage protection	115%~135% rated output voltage, shut off, AC recycle to re-start
Over temp. protection	U1,Tj: 140~160°C, power shutdown, recovers automatically after temperature goes down
Setup, rise, hold up time	1000ms, 20ms, 100ms @ 230VAC (NFM-20: 500ms, 20ms, 50ms @ 230VAC)
Withstand voltage	I/P-O/P: 4.0KVAC, 1 minute
Working temperature	-20°C~70°C (refer to output derating curve)
Safety standards	UL60601-1, TUV EN60601-1, UL60950-1 (NFM-15) approved
EMC standards	EN55011, EN55022 Class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, ENV50204, EN55024, EN60601-1-2, EN61204-3 Medical level, criteria A
Connection	4 industrial pins for 5~15W 3P / 4P / 3.96mm pitch, Molex 41791-03/04 for 20W
Packing	0.03kg; 120pcs / 4.6kg / 0.97CUFT(NFM-05) 0.045kg; 120pcs / 6.4kg / 0.97CUFT(NFM-10) 0.065kg; 120pcs / 8.8kg / 0.97CUFT(NFM-15) 0.09kg; 105pcs / 10.5kg / 0.97CUFT(NFM-20)

NFM-05 Series

Model No.	Output	Tol.	R&N	Effi.
NFM-05-3.3	3.3V, 0~1.25A	±2%	80mV	67%
NFM-05-5	5V, 0~1.00A	±2%	80mV	71%
NFM-05-12	12V, 0~0.42A	±1%	150mV	73%
NFM-05-15	15V, 0~0.33A	±1%	150mV	74%
NFM-05-24	24V, 0~0.23A	±1%	240mV	76%

NFM-10 Series

Model No.	Output	Tol.	R&N	Effi.
NFM-10-3.3	3.3V, 0~2.50A	±2%	80mV	66%
NFM-10-5	5V, 0~2.00A	±2%	80mV	74%
NFM-10-12	12V, 0~0.85A	±1%	150mV	78%
NFM-10-15	15V, 0~0.67A	±1%	150mV	79%
NFM-10-24	24V, 0~0.42A	±1%	240mV	79%

NFM-15 Series

Model No.	Output	Tol.	R&N	Effi.
NFM-15-3.3	3.3V, 0~3.50A	±2%	80mV	73%
NFM-15-5	5V, 0~3.00A	±2%	80mV	76%
NFM-15-12	12V, 0~1.25A	±1%	150mV	78%
NFM-15-15	15V, 0~1.00A	±1%	150mV	79%
NFM-15-24	24V, 0~0.63A	±1%	240mV	81%

NFM-20 Series

Model No.	Output	Tol.	R&N	Effi.
NFM-20-3.3	3.3V, 0~4.50A	±2%	80mV	71%
NFM-20-5	5V, 0~4.40A	±2%	80mV	75%
NFM-20-12	12V, 0~1.80A	±1%	150mV	81%
NFM-20-15	15V, 0~1.40A	±1%	150mV	83%
NFM-20-24	24V, 0~0.92A	±1%	240mV	84%



Energy Saving —

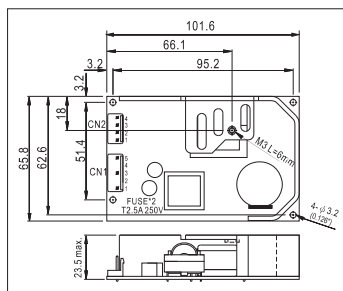
We care about energy saving. This logo represents that this model has "low no load power consumption"!

30W Single Output Medical Type

- Universal AC input / Full range
- Medical safety approved
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Low leakage current $\leq 0.3\text{mA}$
- Compact size, low profile
- 100% full load burn-in test
- 3 years warranty



101.6x 65.8x 23.5 mm



AC input voltage range 88~264VAC; 120~370VDC

Overload protection >105% hiccup mode, auto-recovery

Over voltage protection ... 110%~135% rated output voltage

Leakage current Less than 0.3mA at 264VAC

Withstand voltage I/P-O/P: 4kVAC, I/P-FG: 1.5kVAC, 1minute

Working temperature 0~40°C@100%, -10°C@80%, 60°C@60% load

Safety standards UL2601-1, TUV EN60601-1, IEC60601-1 approved

EMC standards EN55011 class B, EN60601-1-2, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, ENV50204

Connection 5+4P/ 3.96mm pitch, Molex P/N: 41791-05,04

Packing 0.16kg ; 90pcs / 15.8kg / 1.02CUFT

Model No.	Output	Tol.	R&N	Effi.
MPS-30-5	5V, 0~5.0A	±3%	80mV	72%
MPS-30-12	12V, 0~2.5A	±3%	120mV	75%
MPS-30-15	15V, 0~2.0A	±3%	150mV	76%
MPS-30-24	24V, 0~1.2A	±3%	240mV	77%
MPS-30-27	27V, 0~1.1A	±3%	240mV	78%
MPS-30-48	48V, 0~0.6A	±2%	240mV	78%

Under Development

45W/65W Single Output Open Frame Type

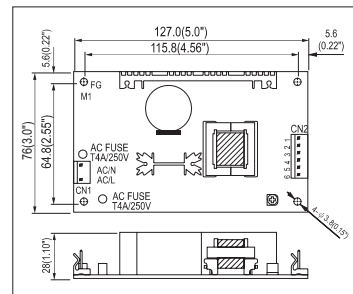
- 4"x 2" miniature size
- Universal AC input / Full range
- No load power consumption < 0.5W
- High efficiency up to 90%
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- LED indicator for power on
- Output models: 3.3V / 5V / 7.5V / 12V / 15V / 24V / 36V / 48V
- Dimension(LxWxH): 101.6x 50.8x 28mm
- 3 years warranty

45W 1~3 Output Medical Type

- Universal AC input / Full range
- Medical safety approved
- Protections: Short circuit / Overload / Over voltage
- Low leakage current $\leq 0.3\text{mA}$
- Approvals: UL / CUL / TUV / CB / CE
- Fixed switching frequency at 45kHz
- 100% full load burn-in test
- 3 years warranty



127x 76x 28 mm



AC input voltage range 90~264VAC; 120~370VDC

AC inrush current Cold start, 20A at 115VAC, 40A at 230VAC

DC adjustment range CH1: ±10% rated output voltage

Overload protection 53~75W hiccup mode, auto-recovery

Over voltage protection CH1: 115%~135% rated output voltage

Leakage current Less than 0.3mA at 264VAC

Setup, rise, hold up time .. 800ms, 30ms, 50ms at full load and 230VAC

Withstand voltage I/P - O/P: 4kVAC, I/P - FG: 1.5kVAC, 1 minute

Working temperature -10°C~60°C (refer to output derating curve)

Safety standards UL2601-1, TUV EN60601-1, IEC60601-1 approved

EMC standards EN55011 class B, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3, EN60601-1-2, ENV50204

Connection 2P,6P/ 3.96mm pitch, Molex P/N: 5277-02, 5273-06

Packing 0.18kg ; 72pcs/ 15.1kg / 1.35CUFT (MPS-45)

0.20kg ; 72pcs/ 17.4kg / 1.35CUFT (MPD-45)

0.21kg ; 72pcs/ 18.0kg / 1.35CUFT (MPT-45)

Single Output

Model No.	Output	Tol.	R&N	Effi.
MPS-45-3.3	3.3V, 0~8.0A	±3%	80mV	65%
MPS-45-5	5V, 0~8.0A	±3%	100mV	72%
MPS-45-7.5	7.5V, 0~5.4A	±3%	100mV	75%
MPS-45-12	12V, 0~3.7A	±2%	100mV	76%
MPS-45-13.5	13.5V, 0~3.3A	±2%	100mV	76%
MPS-45-15	15V, 0~3.0A	±2%	100mV	77%
MPS-45-24	24V, 0~1.9A	±2%	100mV	78%
MPS-45-27	27V, 0~1.7A	±2%	100mV	78%
MPS-45-48	48V, 0~1.0A	±2%	100mV	78%

Dual Output

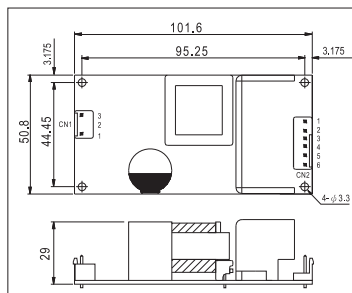
Model No.	Output	Tol.	R&N	Effi.	Max.
MPD-45A	5V, 0.4~5.0A	±4%	60mV	76%	40W
	12V, 0.2~2.5A	±7%	120mV		
MPD-45B	5V, 0.4~5.0A	±4%	60mV	78%	45W
	24V, 0.2~1.8A	±7%	150mV		

Triple Output

Model No.	Output	Tol.	R&N	Effi.	Max.
MPT-45A	5V, 0.4~5.0A	±4%	60mV	73%	41W
	12V, 0.2~2.5A	±7%	120mV		
	-5V, 0.0~0.5A	±5%	60mV		
MPT-45B	5V, 0.4~5.0A	±4%	60mV	75%	43W
	12V, 0.2~2.5A	±7%	120mV		
	-12V, 0.0~0.5A	±5%	100mV		
MPT-45C	5V, 0.4~5.0A	±4%	60mV	75%	44W
	15V, 0.2~2.3A	±7%	120mV		
	-15V, 0.0~0.5A	±5%	100mV		

60W 1~3 Output Medical Type

- 4"x2" miniature size
- Universal AC input / Full range
- Medical safety approved
- Protections: Short circuit / Overload / Over voltage
- No load power consumption <0.75W (single output models only)
- Low leakage current <200uA
- 110% peak load capability
- High power density 6.57W/in³
- Cooling by free air convection
- 3 years warranty
- Suitable for medical & IT applications



AC input voltage range90~264VAC; 127~370VDC
 AC inrush currentCold start, 30A at 115VAC, 60A at 230VAC
 DC adjustment range-5%~+10% rated output voltage (single output only)
 Overload protection115%~150% hiccup mode, auto-recovery
 Over voltage protection CH1: 110%~135% rated output voltage
 Leakage currentLess than 200uA at 264VAC
 Setup, rise, hold up time .. 500ms, 30ms, 50ms at full load and 230VAC (RPS-60)
 200ms, 15ms, 70ms at full load and 230VAC (RPD/T-60)
 Withstand voltage I/P - O/P: 4kVAC, I/P - FG: 1.5kVAC, 1 minute
 Working temperature-20°C~+70°C (RPS-60, refer to output derating curve)
 -20°C~+65°C (RPD/T-60, refer to output derating curve)
 Safety standardsUL60601-1, UL60950-1, TUV EN60601-1, EN60950-1 approved
 EMC standardsEN55011 / EN55022 class B, EN61000-3-2,-3, EN61000-4-2,3,4,5,6,8,11, ENV50204, EN61000-6-2, EN60601-1-2, EN61204-3 medical level
 Connection3,4P / 3.96mm pitch, JST P/N: B3P / B4P-VH (RPS-60)
 3,6P / 3.96mm pitch, JST P/N: B3P / B6P-VH (RPD/T-60)
 Packing0.15kg ; 96pcs / 15.4kg / 0.89CUFT

Single Output

Model No.	Output	Tol.	R&N	Effi.
RPS-60-3.3	3.3V, 0~11A	±2%	80mV	74%
RPS-60-5	5V, 0~11A	±2%	80mV	79%
RPS-60-12	12V, 0~5.5A	±2%	120mV	83%
RPS-60-15	15V, 0~4.4A	±2%	150mV	84%
RPS-60-24	24V, 0~2.75A	±1%	240mV	85%
RPS-60-48	48V, 0~1.375A	±1%	300mV	86%

Dual Output

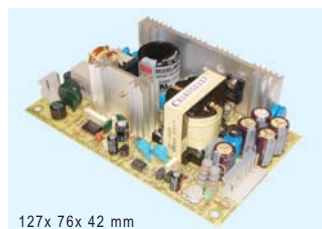
Model No.	Output	Tol.	R&N	Effi.	Max.
RPD-60A	5V, 0.5~5.5A	+3%,-2%	80mV	78%	54W
	12V, 0.1~2.2A	±6%	80mV		
RPD-60B	5V, 0.5~3.85A	+3%,-2%	80mV	82%	59W
	24V, 0.1~1.65A	+8%,-4%	100mV		

Triple Output

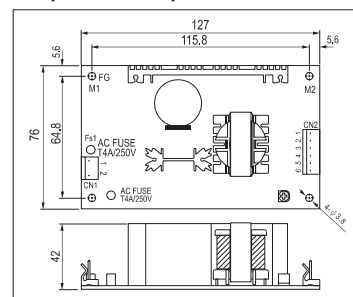
Model No.	Output	Tol.	R&N	Effi.	Max.
RPT-60A	5V, 0.5~4.4A	+3%,-2%	80mV	77%	51W
	12V, 0.1~2.2A	±6%	80mV		
	-5V, 0.1~0.55A	+9%,-8%	80mV		
RPT-60B	5V, 0.5~4.4A	+3%,-2%	80mV	78%	55W
	12V, 0.1~2.2A	±6%	80mV		
	-12V, 0.1~0.55A	+10%,-6%	100mV		
RPT-60C	5V, 0.5~4.4A	+3%,-2%	80mV	79%	55W
	15V, 0.1~0.65A	±6%	100mV		
	-15V, 0.1~0.55A	±8%	150mV		
RPT-60D	5V, 0.5~3.85A	+3%,-2%	80mV	79%	52W
	24V, 0.1~1.1A	±6%	150mV		
	12V, 0.1~0.55A	±8%	80mV		
RPT-6003	3.3V, 0.5~5.5A	+3%,-2%	80mV	75%	44W
	5V, 0.3~3.3A	±8%	80mV		
	12V, 0.1~0.77A	+10%,-6%	80mV		

65W 1~3 Output Medical Type

- Universal AC input / Full range
- Medical safety approved
- Protections: Short circuit / Overload / Over voltage
- Low leakage current≤0.3mA
- Fixed switching frequency at 45kHz
- 100% full load burn-in test
- 3 years warranty



127x 76x 42 mm



AC input voltage range 90~264VAC; 127~370VDC
 AC inrush current Cold start, 20A at 115VAC, 40A at 230VAC
 DC adjustment range CH1: ±10% rated output voltage
 Overload protection 73%~105% hiccup mode, auto-recovery
 Over voltage protection CH1: 115%~135% rated output voltage
 Leakage current Less than 0.3mA at 264VAC
 Setup, rise, hold up time .. 800ms, 30ms, 50ms at full load and 230VAC
 Withstand voltage I/P-O/P: 4kVAC, I/P-FG: 1.5kVAC, 1 minute
 Working temperature -10°C~ +60°C (refer to output derating curve)
 Safety standardsUL2601-1, TUV EN60601-1, IEC60601-1 approved
 EMC standardsEN55011 class B, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3, EN60601-1-2, ENV50204
 Connection2P, 6P/ 3.96mm pitch, Molex: 5277-02, 5273-06
 Packing0.23kg ; 54pcs/ 14.6kg / 1.35CUFT (MPS-65)
 0.25kg ; 54pcs/ 16.0kg / 1.35CUFT (MPD-65)
 0.27kg ; 54pcs/ 16.8kg / 1.35CUFT (MPT-65)

Single Output

Model No.	Output	Tol.	R&N	Effi.
MPS-65-3.3	3.3V, 0~12A	±3%	80mV	66%
MPS-65-5	5V, 0~12A	±3%	100mV	74%
MPS-65-7.5	7.5V, 0~8.0A	±3%	100mV	76%
MPS-65-12	12V, 0~5.2A	±2%	100mV	77%
MPS-65-13.5	13.5V, 0~4.7A	±2%	100mV	78%
MPS-65-15	15V, 0~4.2A	±2%	100mV	79%
MPS-65-24	24V, 0~2.7A	±2%	100mV	80%
MPS-65-27	27V, 0~2.4A	±2%	100mV	80%
MPS-65-48	48V, 0~1.35A	±2%	100mV	80%

Dual Output

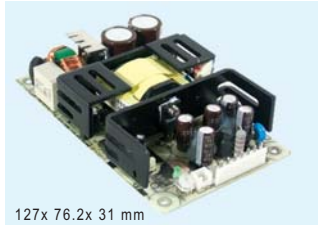
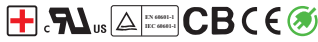
Model No.	Output	Tol.	R&N	Effi.	Max.
MPD-65A	5V, 0.4~7.0A	±4%	60mV	75%	61W
	12V, 0.2~3.2A	±7%	150mV		
MPD-65B	5V, 0.4~6.0A	±4%	60mV	78%	66W
	24V, 0.2~2.6A	±7%	150mV		

Triple Output

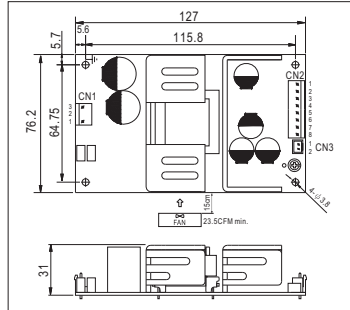
Model No.	Output	Tol.	R&N	Effi.	Max.
MPT-65A	5V, 0.4~7.0A	±4%	60mV	74%	60W
	12V, 0.2~3.2A	+10%,-7%	120mV		
	-5V, 0.0~0.7A	±5%	60mV		
MPT-65B	5V, 0.4~7.0A	±4%	60mV	74%	64W
	12V, 0.2~3.2A	+10%,-7%	160mV		
	-12V, 0.0~0.7A	±5%	100mV		
MPT-65C	5V, 0.4~7.0A	±4%	60mV	74%	65W
	15V, 0.2~2.6A	+10%,-7%	180mV		
	-15V, 0.0~0.7A	±5%	100mV		

75W 1~3 Output Medical Type

- Universal AC input / Full range
- Medical safety approved
- Protections: Short circuit / Overload / Over voltage
- No load power consumption <0.75W (single output models only)
- Low leakage current <200uA
- Fixed switching frequency at 65kHz
- Free air convection for 75W and 100W with 23.5CFM forced air
- 3 years warranty
- Suitable for medical & IT applications



127x 76.2x 31 mm



AC input voltage range 90~264VAC; 127~370VDC
 AC inrush current Cold start, 25A at 115VAC, 50A at 230VAC
 DC adjustment range CH1: -5%~+10% rated output voltage
 Overload protection 140%~180% hiccup mode, auto-recovery
 Over voltage protection CH1: 115%~135% rated output voltage
 Leakage current Less than 200uA at 264VAC
 Setup, rise, hold up time 500ms, 30ms, 80ms at full load and 230VAC
 Withstand voltage I/P-O/P: 4kVAC, I/P-FG: 1.5kVAC, 1 minute
 Working temperature -20°C ~ +70°C (refer to output derating curve)
 Safety standards UL60601-1, TUV EN60601-1 approved
 EMC standards EN55011 / EN55022 class B, EN61000-3-2,-3, EN61000-4-2,3,4,5,6,8,11, ENV50204, EN61000-6-2, EN60601-1-2, EN61204-3 medical level
 Connection 3+8P / 3.96mm pitch, JST P/N: B3P / B8P-VH
 Packing 0.23kg ; 63pcs / 15.5kg / 1.35CUFT

Single Output

Model No.	Output	Tol.	R&N	Effi.
RPS-75-3.3	3.3V, 0~20A	±2%	80mV	73%
RPS-75-5	5V, 0~18.7A	±2%	80mV	78%
RPS-75-12	12V, 0~8.3A	±1%	120mV	82%
RPS-75-15	15V, 0~6.7A	±1%	150mV	83%
RPS-75-24	24V, 0~4.2A	±1%	240mV	85%
RPS-75-36	36V, 0~2.8A	±1%	300mV	86%
RPS-75-48	48V, 0~2.1A	±1%	300mV	86%

Dual Output

Model No.	Output	Tol.	R&N	Effi.	Max.
RPD-75A	5V, 1.0~9.5A	±2%	80mV	77%	96W
	12V, 0.3~4.0A	±6%	120mV		
RPD-75B	5V, 1.0~6.8A	±2%	80mV	79%	99W
	24V, 0.2~2.7A	±6%	200mV		

Triple Output

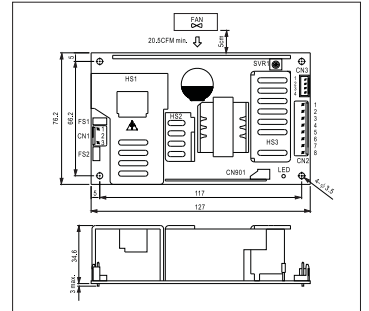
Model No.	Output	Tol.	R&N	Effi.	Max.
RPT-75A	5V, 0.6~8.0A	±2%	80mV	76%	93W
	12V, 0.2~4.0A	±6%	120mV		
	-5V, 0.1~1.0A	±5%	120mV		
RPT-75B	5V, 0.6~8.0A	±2%	80mV	77%	100W
	12V, 0.2~4.0A	±6%	120mV		
	-12V, 0.1~1.0A	±5%	120mV		
RPT-75C	5V, 0.6~8.0A	±2%	80mV	77%	100W
	15V, 0.1~3.0A	±8%	150mV		
	-15V, 0.1~1.0A	±5%	150mV		
RPT-75D	5V, 0.6~7.0A	±2%	80mV	79%	95W
	24V, 0.1~2.0A	±8%	200mV		
	12V, 0.1~1.0A	±8%	120mV		
RPT-7503	3.3V, 0.7~7.0A	±4%	80mV	74%	81W
	5V, 0.0~8.0A	±6%	120mV		
	12V, 0.0~1.5A	+10%,-6%	120mV		

160W Medical Type with PFC Function

- Universal AC input / Full range
- Built-in active PFC function
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Free air convection for 110W and 160W with 20.5 CFM forced air (RPS-160); Free air convection for 100W and 150W with 20.5 CFM forced air (RPD / T-160)
- 5"x3" compact size
- With power good and fail signal output
- Built-in remote sense function for 5~15V (RPS-160)
- Standby 5V@0.8A (G model)
- No load power consumption under 0.75W by PS-ON control (G model)
- 3 years warranty



127x 76.2x 34.6mm



AC input voltage range 90~264VAC; 127~370VDC
 AC inrush current Cold start, 35A at 115VAC, 70A at 230VAC
 DC adjustment range RPS-160: ±10% rated output voltage
 RPD/T-160: 0~+10% for CH1
 Overload protection 105%~135% hiccup mode, auto-recovery
 Over voltage protection CH1: 115%~135% shut off, re-power on to recovery
 Leakage current Less than 300uA at 240VAC
 Setup, rise, hold up time 1200ms, 30ms, 16ms at full load and 230VAC
 Withstand voltage I/P - O/P: 4kVAC, I/P - FG: 1.5kVAC, 1 minute
 Working temperature -20°C~70°C (refer to output derating curve)
 Safety standards UL60601-1, TUV EN60601-1 approved
 EMC standards EN55011/EN55022 class B, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3, EN60601-1-2, ENV50204, EN61000-6-2 (RPS(G)-160)
 Connection 3+8+2(4)P/3.96mm pitch JST B3P / B8P-VH, B2B (B4B)-XH

Single Output

Model No.	Output	Tol.	R&N	Effi.
RPS□-160-5	5V, 0~30.0A	±4%	100mV	85%
RPS□-160-12	12V, 0~12.9A	±3%	100mV	87%
RPS□-160-15	15V, 0~10.3A	±3%	120mV	87%
RPS□-160-24	24V, 0~6.5A	±2%	150mV	87%
RPS□-160-48	48V, 0~3.25A	±2%	250mV	88%

Dual Output

Model No.	Output	Tol.	R&N	Effi.	Max.
RPD□-160B	5V, 1.0~12A	±2.5%	80mV	84%	150W
	24V, 0.2~3.6A	±6%	200mV		

Triple Output

Model No.	Output	Tol.	R&N	Effi.	Max.
RPT□-160A	5V, 0.6~14A	±2%	100mV	84%	141W
	12V, 0.2~5.5A	±5%	120mV		
	-5V, 0.1~1.0A	-5%, +7%	120mV		
RPT□-160B	5V, 0.6~14A	±2%	100mV	84%	142W
	12V, 0.2~5.0A	±5%	120mV		
	-12V, 0.1~1.0A	-4%, +5%	120mV		
RPT□-160C	5V, 0.6~14A	±2%	100mV	83%	139W
	15V, 0.1~3.6A	±4%	150mV		
	-15V, 0.1~1.0A	-5%, +7%	150mV		
RPT□-160D	5V, 0.3~11A	±2%	100mV	83%	144W
	12V, 0.2~5.0A	±5%	120mV		
	24V, 0.15~1.2A	±4%	200mV		

□ = blank, G; blank: basic function, G: with 5Vsb/0.8A & no load power consumption < 0.75W

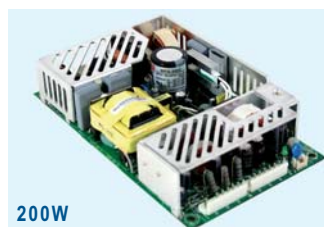
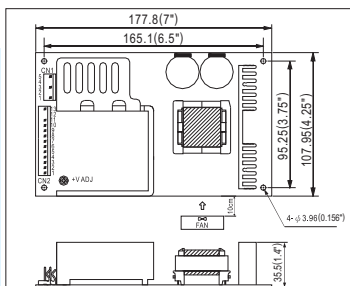
120 & 200W 1~4 Output Medical Type

- Universal AC input / Full range
- PF> 0.95@230VAC (200W)
- Protections: Short circuit / Overload / Over voltage / OTP (200W)
- Leakage current≤180uA
- Built-in remote sense and remote ON/OFF control (200W)
- PG / PF signal output (optional for 120W)
- 80W / 140W free air convection, 120W / 200W with 25CFM forced air
- 100% full load burn-in test
- 3 years warranty
- Suitable for medical & IT applications



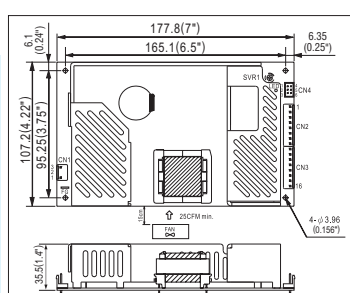
120W

177.8x 108x 35.5mm



200W

177.8x 107.2x 35.5mm



AC input voltage range 90~264VAC; 127~370VDC
 AC inrush current Cold start, 35A at 115VAC, 60A at 230VAC
 DC adjustment range CH1: -5~+10% rated output voltage
 Overload protection 110~160% hiccup mode, auto-recovery
 Over voltage protection CH1: 115%~140% rated output voltage
 Leakage current Less than 180uA at 264VAC
 Setup, rise, hold up time 1000ms, 20ms, 16ms at full load and 230VAC
 Withstand voltage I/P - O/P: 4kVAC, I/P - FG: 1.5kVAC, 1 minute
 Working temperature -20°C~70°C (refer to output derating curve)
 Safety standards UL60601-1, TUV EN60601-1, IEC60601-1 approved;
 Design refer to UL60950-1, TUV EN60950-1
 EMC standards EN55011/EN55022 class B,
 EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3,
 EN60601-1-2, ENV50204, EN61000-6-2
 Connection 5P,13P/ 3.96mm pitch, Molex 5273-05, 5273-13 (120W)
 3P, 20P / 3.96mm pitch, JST B3P/VH, Molex 5566-20 (MPS-200)
 3P, 8Px2 / 3.96mm pitch, JSTB3P / B8Px2-VH (MPD/T/Q-200)
 Packing 0.55kg ; 24pcs / 14.5kg / 1.04CUFT (120W)
 0.66kg ; 24pcs / 16.8kg / 1.04CUFT (200W)

Single Output

Model No.	Output	Tol.	R&N	Effi.
MPS-120-3.3	3.3V, 0~24A	±3%	80mV	68%
MPS-120-5	5V, 0~22A	±3%	80mV	73%
MPS-120-12	12V, 0~10A	±2%	100mV	77%
MPS-120-15	15V, 0~8.0A	±2%	100mV	79%
MPS-120-24	24V, 0~5.0A	±2%	120mV	81%
MPS-120-48	48V, 0~2.5A	±2%	120mV	82%

Model No.	Output	Tol.	R&N	Effi.
MPS-200-3.3	3.3V, 0~40A	±2%	80mV	77%
MPS-200-5	5V, 0~40A	±2%	80mV	81%
MPS-200-12	12V, 0~16.7A	±2%	100mV	84%
MPS-200-15	15V, 0~13.4A	±2%	100mV	85%
MPS-200-24	24V, 0~8.4A	±1%	150mV	86%
MPS-200-48	48V, 0~4.2A	±1%	200mV	87%

Dual Output

Model No.	Output	Tol.	R&N	Effi.	Max.
MPD-120A	5V, 2.0~12A	±2%	80mV	75%	110W
	12V, 0.5~6.0A	±7%	120mV		
MPD-120B	5V, 2.0~12A	±2%	80mV	76%	120W
	24V, 0.3~3.2A	±8%	250mV		

Dual Output

Model No.	Output	Tol.	R&N	Effi.	Max.
MPD-200A	5V, 4.0~24A	±2%	80mV	82%	196W
	12V, 0.8~9.6A	+8%, -5%	120mV		
MPD-200B	5V, 4.0~24A	±2%	80mV	83%	196W
	24V, 0.4~4.8A	±6.5%	180mV		

Triple Output

Model No.	Output	Tol.	R&N	Effi.	Max.
MPT-120A	5V, 2.0~12A	±2%	80mV	72%	111W
	12V, 0.4~5.8A	+8%, -6%	120mV		
	-5V, 0.0~1.0A	±5%	80mV		
MPT-120B	5V, 2.0~12A	±2%	80mV	73%	110W
	12V, 0.4~5.3A	±6%	120mV		
	-12V, 0.0~1.0A	±5%	80mV		
MPT-120C	5V, 2.0~11A	±2%	80mV	72%	119W
	15V, 0.4~4.4A	+6%, -7%	150mV		
	-15V, 0.0~1.0A	±5%	80mV		
MPT-120D	5V, 2.0~12A	±2%	80mV	74%	110W
	24V, 0.4~2.6A	+8%, -6%	300mV		
	12V, 0.0~1.0A	±5%	120mV		

MPT-200A	5V, 4.0~24A	±2%	80mV	80%	200W
	12V, 0.8~9.0A	±8%	120mV		
	-5V, 0.0~2.4A	±5%	80mV		
MPT-200B	5V, 4.0~24A	±2%	80mV	80%	196W
	12V, 0.6~7.2A	±8%	120mV		
MPT-200C	-12V, 0.0~2.4A	±5%	80mV		
	5V, 4.0~24A	±2%	80mV	80%	201W
	15V, 0.5~5.6A	±8%	150mV		
MPT-200D	-15V, 0.0~2.4A	±5%	80mV		
	5V, 4.0~24A	±2%	80mV	81%	196W
	24V, 0.3~3.6A	±8%	180mV		
	12V, 0.0~2.4A	±5%	80mV		

Quad Output

Model No.	Output	Tol.	R&N	Effi.	Max.
MPQ-120B	5V, 2.0~11A	±2%	80mV	71%	111W
	12V, 0.5~5.0A	±6%	120mV		
	-5V, 0.0~1.0A	±5%	80mV		
	-12V, 0.0~1.0A	±5%	80mV		
MPQ-120C	5V, 2.0~11A	±2%	80mV	71%	110W
	15V, 0.5~3.8A	+6%, -7%	150mV		
	-5V, 0.0~1.0A	±5%	80mV		
	-15V, 0.0~1.0A	±5%	80mV		
MPQ-120D	5V, 2.0~11A	±2%	80mV	74%	120W
	12V, 0.2~1.1A	+8%, -6%	150mV		
	24V, 0.3~2.3A	±8%	300mV		
	-12V, 0.0~1.0A	±5%	80mV		
MPQ-120E	5V, 2.0~11A	±2%	80mV	73%	109W
	12V, 0.5~3.3A	±6%	120mV		
	15V, 0.0~1.0A	±8%	80mV		
	24V, 0.0~1.0A	±5%	80mV		

MPQ-200B	5V, 3.0~18A	±2%	80mV	78%	193W
	12V, 0.7~8.4A	±8%	120mV		
	-5V, 0.0~2.4A	±5%	80mV		
	-12V, 0.0~2.4A	±5%	80mV		
MPQ-200C	5V, 3.0~18A	±2%	80mV	78%	190W
	15V, 0.5~6.0A	±6%	150mV		
	-5V, 0.0~2.4A	±5%	80mV		
	-15V, 0.0~2.4A	±5%	80mV		
MPQ-200D	5V, 3.0~18A	±2%	80mV	79%	195W
	24V, 0.3~3.6A	±8%	180mV		
	12V, 0.0~2.4A	±5%	80mV		
	-12V, 0.0~2.4A	±5%	80mV		
MPQ-200F	5V, 3.0~18A	±2%	80mV	81%	200W
	24V, 0.3~3.3A	±8%	180mV		
	15V, 0.0~2.4A	±5%	80mV		
	-15V, 0.0~2.4A	±5%	80mV		

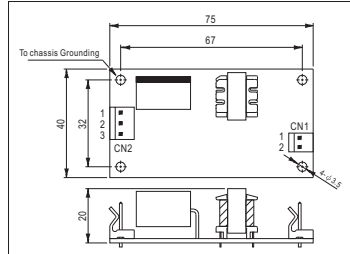
5W Single Output Switching Power Supply

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Cooling by free air convection
- Fixed switching frequency at 67kHz
- Low leakage current <0.5mA
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

CB CE



75x 40x 20 mm



AC input voltage range 85~264VAC; 120~370VDC
 AC inrush current Cold start, 30A at 230VAC
 Overload protection >105% hiccup mode, auto-recovery
 Over voltage protection 115%~135% rated output voltage
 Over temp. protection U1, Tj:140°C, hiccup mode, auto-recovery
 Leakage current Less than 0.5mA at 240VAC
 Withstand voltage I/P-O/P: 3kVAC, I/P-FG:1.5kVAC, 1minute
 Working temperature -10~60°C (refer to output derating curve)
 Safety standards UL60950-1 CB approval by TUV
 EMC standards EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Connection 3P, 2P/ 3.96mm pitch, Molex 5285-03,5273-02
 Packing 0.05kg ; 120pcs / 6.25kg / 1.0CUFT

Model No.	Output	Tol.	R&N	Effi.
PS-05-5	5V, 0~1.0A	±2%	100mV	70%
PS-05-12	12V, 0~0.45A	±2%	120mV	75%
PS-05-15	15V, 0~0.35A	±2%	120mV	75%
PS-05-24	24V, 0~0.22A	±2%	200mV	76%
PS-05-48	48V, 0~0.11A	±1%	200mV	76%

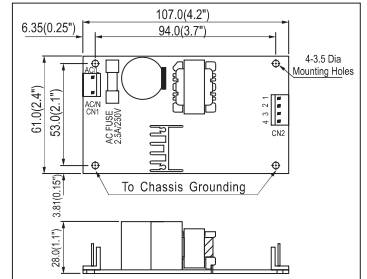
25W 1~2 Output Switching Power Supply

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Cooling by free air convection
- Fixed switching frequency at 100kHz
- Low leakage current <0.5mA
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

UL US CB CE



107x 61x 28 mm



AC input voltage range 85~264VAC; 120~370VDC
 AC inrush current Cold start, 36A at 230VAC
 Overload protection >105% hiccup mode, auto-recovery
 Over voltage protection 115%~135% rated output voltage
 Over temp. protection U1, Tj:135°C, power shutdown
 Leakage current Less than 0.5mA at 240VAC
 Withstand voltage I/P-O/P: 3kVAC, I/P-FG:1.5kVAC, 1minute
 Working temperature -10~60°C (refer to output derating curve)
 Safety standards UL60950-1, TUV EN60950-1 approved
 EMC standards EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5
 Connection 3P, 4P/ 3.96mm pitch, Molex P/N: 41791-03, 04
 Packing 0.14kg ; 96pcs / 15.0kg / 1.30CUFT(PS-25)
 0.15kg ; 96pcs / 15.9kg / 1.30CUFT(PD-25)
 0.13kg ; 96pcs / 15.4kg / 1.30CUFT(PD-2503)

Single Output

Model No.	Output	Tol.	R&N	Effi.
PS-25-3.3	3.3V, 0~5.0A	±3%	80mV	66%
PS-25-5	5V, 0~5.0A	±2%	80mV	74%
PS-25-7.5	7.5V, 0~3.3A	±2%	80mV	76%
PS-25-12	12V, 0~2.1A	±2%	100mV	78%
PS-25-13.5	13.5V, 0~1.9A	±2%	100mV	78%
PS-25-15	15V, 0~1.7A	±2%	100mV	78%
PS-25-24	24V, 0~1.0A	±2%	240mV	79%
PS-25-27	27V, 0~0.9A	±2%	240mV	79%
PS-25-48	48V, 0~0.5A	±2%	350mV	79%

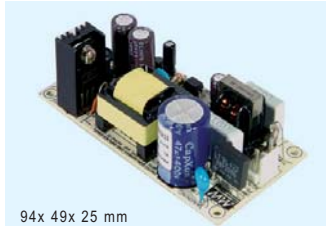
Dual Output

Model No.	Output	Tol.	R&N	Effi.	Max.
PD-25A	5V, 0.2~2.5A	±2%	50mV	71%	25W
	12V, 0.1~1.5A	±6%	150mV		
PD-25B	5V, 0.2~2.0A	±2%	50mV	77%	25W
	24V, 0.1~1.0A	±6%	200mV		
PD-2505	5V, 0.1~3.0A	±6%	50mV	73%	25W
	-5V, 0.1~2.5A	±6%	50mV		
PD-2512	12V, 0.1~1.2A	±4%	50mV	74%	24W
	-12V, 0.1~1.2A	±4%	50mV		
PD-2515	15V, 0.1~1.0A	±4%	50mV	75%	24W
	-15V, 0.1~1.0A	±4%	50mV		
PD-2503	3.3V, 0.2~5.0A	±2%	50mV	72%	25W
	5V, 0.1~4.0A	+5%,-8%	50mV		

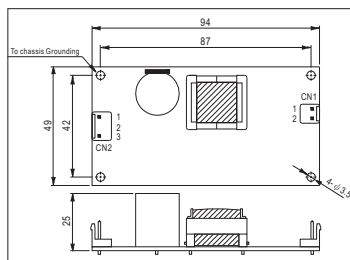
15W Single Output Switching Power Supply

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Cooling by free air convection
- Fixed switching frequency at 67kHz
- Low leakage current <0.5mA
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

CB CE



94x 49x 25 mm



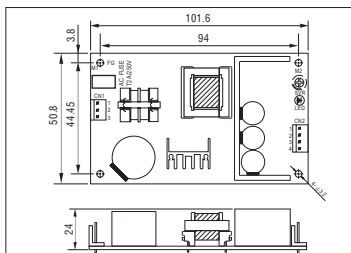
AC input voltage range 85~264VAC; 120~370VDC
 AC inrush current Cold start, 40A at 230VAC
 Overload protection >105% hiccup mode, auto-recovery
 Over voltage protection 115%~135% rated output voltage
 Over temp. protection U1, Tj:140°C, hiccup mode, auto-recovery
 Leakage current Less than 0.5mA at 240VAC
 Withstand voltage I/P-O/P: 3kVAC, I/P-FG:1.5kVAC, 1minute
 Working temperature -10~60°C (refer to output derating curve)
 Safety standards EN60950-1 CB approval by TUV
 EMC standards EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Connection 3P, 2P/ 3.96mm pitch, JST B3P/B2P-VH
 Packing 0.083kg ; 120pcs / 10.96kg

Model No.	Output	Tol.	R&N	Effi.
PS-15-5	5V, 0~2.80A	±2%	100mV	74%
PS-15-12	12V, 0~1.25A	±2%	120mV	77%
PS-15-15	15V, 0~1.00A	±2%	120mV	78%
PS-15-24	24V, 0~0.625A	±2%	150mV	79%
PS-15-48	48V, 0~0.313A	±2%	200mV	77%

35W Single Output Switching Power Supply

- 4"x2"x 0.95" compact size
- Universal AC input / Full range
- Cooling by free air convection

- Protections: Short circuit / Overload / Over voltage
- 2 years warranty



AC input voltage range	90~264VAC; 127~370VDC
DC adjustment range	±10% rated output voltage
Overload protection	105%~160% hiccup mode, auto-recovery
Over voltage protection	115%~150% rated output voltage
Withstand voltage	I/P-O/P: 3.0kVAC, I/P-FG:1.5kVAC, 1minute
Working temperature	-20°C~+65°C (refer to output derating curve)
Safety standards	UL60950-1, TUV EN60950-1 approved
EMC standards	EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11; ENV50204
Connection	3+4P / 3.96mm pitch, JST B3P/B4P-VH
Packing	0.124kg: 96pcs / 12.9kg / 0.8CUFT

Model No.	Output	Tol.	R&N	Effi.
PS-35-3.3	3.3V, 0~6.0A	±2%	80mV	70%
PS-35-5	5V, 0~6.0A	±2%	100mV	78%
PS-35-7.5	7.5V, 0~4.7A	±2%	100mV	80%
PS-35-12	12V, 0~3.0A	±1%	120mV	81%
PS-35-13.5	13.5V, 0~2.6A	±1%	120mV	81%
PS-35-15	15V, 0~2.4A	±1%	150mV	81%
PS-35-24	24V, 0~1.5A	±1%	200mV	85%
PS-35-48	48V, 0~0.75A	±1%	240mV	84%

75W Single Output with PFC Function

- Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- High efficiency up to 90%
- Protections: Short circuit / Overload / Over voltage
- No load power consumption <0.5W
- Cooling by free air convection
- LED indicator for power on
- Optional case available (ELP-75-x-C)
- 1U low profile
- 3 years warranty



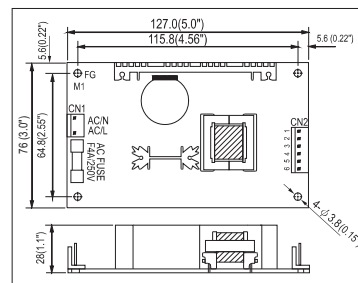
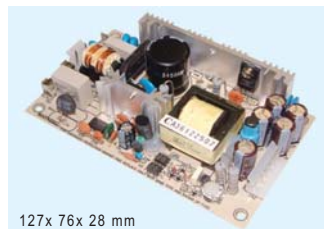
AC input voltage range	90~264VAC; 127~370VDC
AC inrush current	Cold start, 60A at 230VAC
DC adjustment range	±10% rated output voltage
Overload protection	105%~150% hiccup mode, auto-recovery
Over voltage protection	115%~135% rated output voltage
Leakage current	Less than 1mA at 240VAC
Setup, rise, hold up time	2500ms, 50ms, 20ms at full load and 230VAC
Withstand voltage	I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, O/P-FG: 0.5kVAC
Working temperature	-30°C~+70°C (refer to output derating curve)
Safety standards	UL60905-1, TUV EN60950-1 approved
EMC standards	EN55022 class B, EN61000-3-2,-3, EN61000-4-2,3,4,5,6,8,11, ENV50204, 3+6P / 3.96mm pitch, JST B3P/B6P-VH
Connection	

Model No.	Output	Tol.	R&N	Effi.
ELP-75-3.3□	3.3V, 0~15A	±3%	80mV	80%
ELP-75-5□	5V, 0~15A	±2%	80mV	82%
ELP-75-12□	12V, 0~6.25A	±2%	120mV	89%
ELP-75-15□	15V, 0~5A	±2%	150mV	90%
ELP-75-24□	24V, 0~3.15A	±1%	240mV	90%
ELP-75-36□	36V, 0~2.1A	±1%	280mV	90%
ELP-75-48□	48V, 0~1.6A	±1%	300mV	90%

□ = blank, -C ; blank: PCB type, -C: Enclosed type

45W 1~3 Output Switching Power Supply

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- Fixed switching frequency at 65kHz
- Low leakage current <0.5mA
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty



AC input voltage range	...90~264VAC; 127~370VDC
AC inrush current	Cold start, 15A at 115VAC, 30A at 230VAC
DC adjustment range	CH1: -5%~+10% rated output voltage
Overload protection	53~75W hiccup mode, auto-recovery
Over voltage protection	..CH1: 115%~135% rated output voltage
Leakage current	Less than 0.5mA at 240VAC
Withstand voltage	I/P-O/P: 3kVAC, I/P-FG:1.5kVAC, 1minute
Working temperature	-10~60°C (refer to output derating curve)
Safety standards	UL60950-1, TUV EN60950-1, CCC GB4943 approved
EMC standards	EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, ENV50204, GB9254
Connection	2P, 6P/ 3.96mm pitch, Molex 5277-02 / 5273-06
Packing	0.19kg ; 72pcs / 15.6kg / 1.35CUFT(PS-45) 0.20kg ; 72pcs / 16.0kg / 1.35CUFT(PD-45) 0.21kg ; 72pcs / 17.0kg / 1.35CUFT(PT-45)

❖ Single Output

Model No.	Output	Tol.	R&N	Effi.
PS-45-3.3	3.3V, 0~8.0A	±3%	80mV	69%
PS-45-5	5V, 0~8.0A	±3%	100mV	74%
PS-45-7.5	7.5V, 0~5.4A	±3%	100mV	75%
PS-45-12	12V, 0~3.7A	±2%	100mV	76%
PS-45-13.5	13.5V, 0~3.3A	±2%	100mV	77%
PS-45-15	15V, 0~3.0A	±2%	100mV	77%
PS-45-24	24V, 0~1.9A	±2%	100mV	78%
PS-45-27	27V, 0~1.7A	±2%	100mV	78%
PS-45-48	48V, 0~1.0A	±2%	100mV	78%

❖ **Dual Output**

Model No.	Output	Tol.	R&N	Effi.	Max.
PD-45A	5V, 0.4~5.0A	±4%	50mV	77%	40W
	12V, 0.2~2.5A	±7%	120mV		
PD-45B	5V, 0.4~5.0A	±4%	50mV	78%	45W
	24V, 0.2~1.8A	±7%	120mV		

❖ Triple Output

Model No.	Output	Tol.	R&N	Effi.	Max.
PT-45A	5V, 0.4~5.0A	±4%	50mV	75%	41W
	12V, 0.2~2.5A	±7%	120mV		
	-5V, 0.0~0.5A	±5%	50mV		
PT-45B	5V, 0.4~5.0A	±4%	50mV	75%	43W
	12V, 0.2~2.5A	±7%	120mV		
	-12V, 0.0~0.5A	±5%	100mV		
PT-45C	5V, 0.4~5.0A	±4%	50mV	75%	44W
	15V, 0.2~2.3A	±7%	120mV		
	-15V, 0.0~0.5A	±5%	100mV		

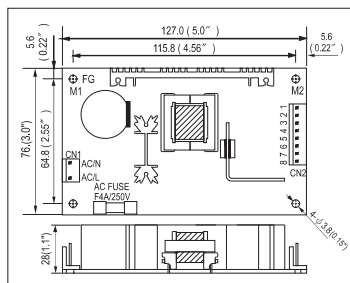
45 & 65W Triple Output with 3.3V Channel

- Universal AC input / Full range
- Total power for CH1+2: 35W (PT-45)
- Total power for CH1+2: 54W (PT-65)
- Protections: Short circuit / Overload / Over voltage
- Fixed switching frequency at 65kHz
- Cooling by free air convection
- 100% full load burn-in test
- 2 years warranty

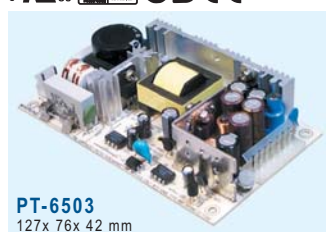
UL US CB CE



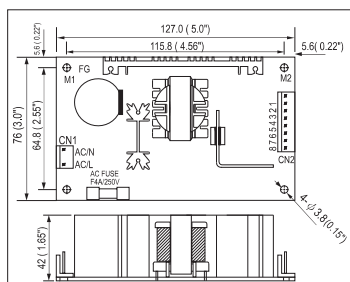
PT-4503
127x 76x 28 mm



UL US CB CE



PT-6503
127x 76x 42 mm



AC input voltage range 90~264VAC; 127~370VDC
 AC inrush current Cold start, 20A at 115VAC, 40A at 230VAC
 DC adjustment range 3.3V: $\pm 10\%$ rated output voltage
 Overload protection 120%~160% hiccup mode, auto-recovery
 Over voltage protection 5V: 115%~135% rated output voltage
 Leakage current Less than 1.0mA at 240VAC
 Setup, rise, hold up time 800ms, 50ms, 60ms at full load and 230VAC
 Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, 1minute
 Working temperature -10~60°C (refer to output derating curve)
 Safety standards UL60950-1, TUV EN60950-1 approved
 EMC standards EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,11
 Connection 2P, 8P/ 3.96mm pitch, Molex: 5277-02, 5273-08
 Packing 0.23kg / 72pcs / 17.6kg / 1.35CUFT(PT-4503)
 0.28kg / 54pcs / 16.2kg / 1.35CUFT(PT-6503)

✦ Triple Output (45W)

Model No.	Output	Tol.	R&N	Effi.	Max.
PT-4503	3.3V, 0.0~5.0A	$\pm 2\%$	50mV	72%	45W
	5V, 0.2~7.0A	+4%, -2%	50mV		
	12V, 0.0~1.2A	$\pm 4\%$	100mV		

✦ Triple Output (65W)

Model No.	Output	Tol.	R&N	Effi.	Max.
PT-6503	3.3V, 0.0~7.0A	$\pm 3\%$	50mV	72%	62W
	5V, 0.2~10A	+4%, -2%	50mV		
	12V, 0.0~1.2A	$\pm 4\%$	100mV		

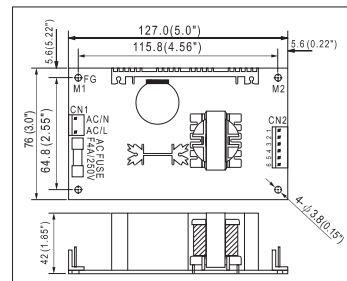
65W 1~3 Output Switching Power Supply

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- Fixed switching frequency at 65kHz
- Low leakage current <0.5mA
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

UL US CB CE



127x 76x 42 mm



AC input voltage range 90~264VAC; 127~370VDC
 AC inrush current Cold start, 20A at 115VAC, 40A at 230VAC
 DC adjustment range CH1: -5%~+10% rated output voltage
 Overload protection 73~105W hiccup mode, auto-recovery
 Over voltage protection CH1: 115%~135% rated output voltage
 Leakage current Less than 0.5mA at 240VAC
 Setup, rise, hold up time 800ms, 20ms, 60ms at full load and 230VAC
 Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, 1minute
 Working temperature 0~45°C@100%, -10°C@80%, 60°C@50% load
 Safety standards UL60950-1, TUV EN60950-1, CCC GB4943 approved

EMC standards EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, ENV50204, GB9254

Connection 2P, 6P/ 3.96mm pitch, Molex P/N: 5277-02, 5273-06

Packing 0.21kg / 54pcs / 14.2kg / 1.35CUFT(PS-65)
 0.24kg / 54pcs / 15.0kg / 1.35CUFT(PD-65)
 0.25kg / 54pcs / 15.9kg / 1.35CUFT(PT-65)

✦ Single Output

Model No.	Output	Tol.	R&N	Effi.
PS-65-3.3	3.3V, 0~12A	$\pm 3\%$	80mV	69%
PS-65-5	5V, 0~12A	$\pm 3\%$	100mV	76%
PS-65-7.5	7.5V, 0~8.0A	$\pm 3\%$	100mV	79%
PS-65-12	12V, 0~5.2A	$\pm 2\%$	100mV	79%
PS-65-13.5	13.5V, 0~4.7A	$\pm 2\%$	100mV	79%
PS-65-15	15V, 0~4.2A	$\pm 2\%$	100mV	79%
PS-65-24	24V, 0~2.7A	$\pm 2\%$	100mV	80%
PS-65-27	27V, 0~2.4A	$\pm 2\%$	100mV	80%
PS-65-48	48V, 0~1.35A	$\pm 2\%$	100mV	80%

✦ Dual Output

Model No.	Output	Tol.	R&N	Effi.	Max.
PD-65A	5V, 0.4~7.0A	$\pm 4\%$	50mV	78%	61W
	12V, 0.2~3.2A	$\pm 7\%$	120mV		
PD-65B	5V, 0.4~6.0A	$\pm 4\%$	50mV	81%	66W
	24V, 0.2~2.6A	$\pm 7\%$	150mV		

✦ Triple Output

Model No.	Output	Tol.	R&N	Effi.	Max.
PT-65A	5V, 0.4~7.0A	$\pm 4\%$	50mV	76%	60W
	12V, 0.2~3.2A	$\pm 7\%$	120mV		
	-5V, 0.0~0.7A	$\pm 5\%$	50mV		
PT-65B	5V, 0.4~7.0A	$\pm 4\%$	50mV	77%	64W
	12V, 0.2~3.2A	$\pm 7\%$	120mV		
	-12V, 0.0~0.7A	$\pm 5\%$	100mV		
PT-65C	5V, 0.4~7.0A	$\pm 4\%$	50mV	77%	65W
	15V, 0.2~2.6A	$\pm 7\%$	120mV		
	-15V, 0.0~0.7A	$\pm 5\%$	100mV		
PT-65D	5V, 0.5~5.0A	$\pm 4\%$	50mV	79%	68W
	12V, 0.2~4.0A	$\pm 6\%$	100mV		
	24V, 0.2~1.3A	$\pm 6\%$	200mV		



We are a TQM (Total Quality Management) company and ISO-9001 certified since 1994.



We provide specification, drawing, test report and more information, please visit our website —

<http://www.meanwell.com>



To satisfy our customers is our goal —

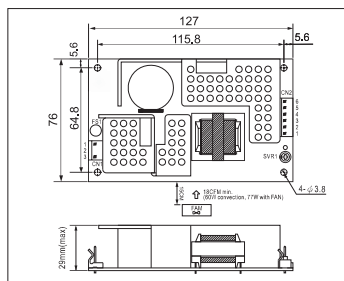
- High Quality
- Low Cost
- Prompt Delivery
- Best Service

65W 2~3 Output Switching Power Supply

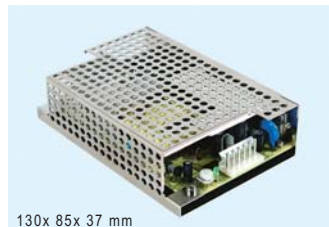
- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- 12V or 24V high peak current capability
- 60~65W free air convection, 77~80W with 18 CFM forced air
- Low leakage current < 1mA
- 100% full load burn-in test
- **Optional case available (RPD/RPT-65x-C)**
- 2 years warranty capability



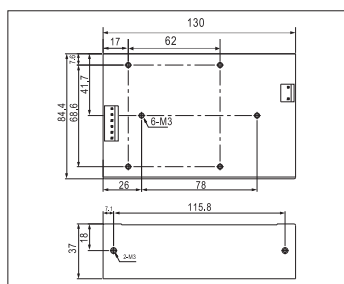
127x 76x 28 mm



▶ With Optional Case



130x 85x 37 mm



AC input voltage range 90~264VAC; 127~370VDC
 AC inrush current Cold start, 25A at 115VAC, 50A at 230VAC
 DC adjustment range CH1: 12V: 11.4~12.8V, 24V: 22.8~26.4V
 Overload protection 90~125W hiccup mode, auto-recovery
 Over voltage protection CH1: 115%~135% rated output voltage
 Leakage current Less than 1mA at 240VAC
 Setup, rise, hold up time 800ms, 20ms, 20ms at full load and 230VAC
 Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, 1minute
 Working temperature -20~60°C (refer to output derating curve)
 Safety standards UL60950-1, TUV EN60950-1 approved
 EMC standards EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, ENV50204
 Connection 3P, 6P/ 3.96mm pitch, Molex P/N: 5273-03, 5273-06
 Packing 0.24kg ; 63pcs / 16.0kg / 1.35CUFT

❖ Dual Output

Model No.	Output	Tol.	R&N	Effi.	Max.
RPD-65C □	12V, 0~5.8A	±2%	120mV	79%	60W
	5V, 0~1.5A	±5%	50mV		
RPD-65D □	24V, 0~2.9A	±2%	150mV	81%	60W
	5V, 0~1.5A	±5%	50mV		

❖ Triple Output

Model No.	Output	Tol.	R&N	Effi.	Max.
RPT-65E □	12V, 0.18~5.8A	±2%	120mV	77%	63W
	5V, 0.0~1.5A	±5%	100mV		
	-5V, 0.0~0.7A	±5%	120mV		
RPT-65F □	12V, 0.18~5.8A	±2%	150mV	77%	66W
	5V, 0.0~1.5A	±5%	100mV		
	-12V, 0.0~0.7A	±5%	150mV		
RPT-65G □	24V, 0.09~2.9A	±2%	150mV	81%	66W
	5V, 0.0~1.5A	±5%	50mV		
	12V, 0.0~0.7A	±5%	100mV		

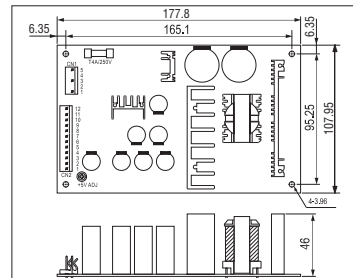
□ = blank, -C ; blank: PCB Type, -C: Enclosed Type

100~110W 2, 4 Output Switching Power Supply

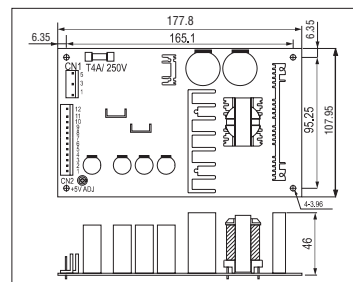
- Universal AC input / Full range
- Power good signal output (option)
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- 2 years warranty
- **To be discontinued. Using MPD-120 & MPQ-120 as replacement for any new applications is highly recommend.**



PD-110
178x 108x 46 mm



PQ-100
178x 108x 46 mm



AC input voltage range .. 90~264VAC; 127~370VDC
 AC inrush current Cold start, 50A at 230VAC
 DC adjustment range CH1: -5%~+10% rated output voltage
 Overload protection 105%~135% hiccup mode, auto-recovery
 Over voltage protection .. CH1: 115%~135% rated output voltage
 Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, 1minute
 Working temperature -10°C~60°C (refer to output derating curve)
 Safety standards UL60950-1, TUV EN60950-1 approved
 EMC standards EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,11, ENV50204
 Connection 5+12P/ 3.96mm pitch, Molex: 5273-05,12(PD-110)
 5+6+7P/ 3.96mm pitch, Molex: 5273-05,06,07(PQ-100)
 Packing 0.51kg ; 24pcs / 13.1kg / 1.19CUFT (PD-110)
 0.56kg ; 24pcs / 14.5kg / 1.19CUFT (PQ-100)

❖ Dual Output

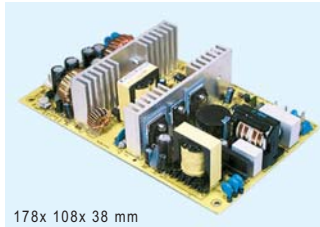
Model No.	Output	Tol.	R&N	Effi.	Max.
PD-110A	5V, 0.5~5.0A	±2%	100mV	75%	103W
	12V, 0.5~6.5A	±6%	150mV		
PD-110B	5V, 0.5~5.0A	±2%	100mV	78%	109W
	24V, 0.5~3.5A	±6%	200mV		

❖ Quad Output

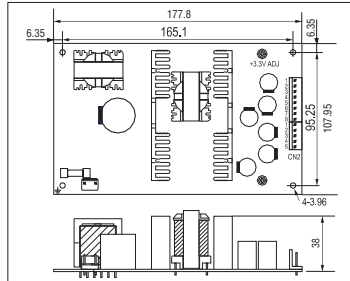
Model No.	Output	Tol.	R&N	Effi.	Max.
PQ-100B	5V, 2.0~10A	±3%	80mV	72%	101W
	12V, 0.5~4.5A	±12%	250mV		
	-5V, 0.0~1.0A	±6%	80mV		
PQ-100C	-12V, 0.0~1.0A	±6%	120mV		
	5V, 2.0~8.0A	±2%	80mV	74%	103W
	15V, 0.5~4.0A	±6%	150mV		
PQ-100D	-5V, 0.0~1.0A	±6%	80mV		
	-15V, 0.0~1.0A	±6%	150mV		
	5V, 2.0~5.0A	±2%	80mV	77%	103W
PQ-100E	12V, 0.5~4.5A	±6%	120mV		
	24V, 0.4~2.0A	±10%	180mV		
	-12V, 0.0~1.0A	±6%	120mV		
PQ-100E	5V, 2.0~8.0A	±2%	80mV	74%	99W
	12V, 0.5~3.0A	±6%	120mV		
	15V, 0.0~1.0A	±6%	150mV		
PQ-100E	24V, 0.0~1.0A	±6%	120mV		

100W Quad Output with PFC Function

- Universal AC input / Full range
- PF>0.98@115VAC; >0.95@230VAC
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- 100% full load burn-in test
- 3 years warranty



178x 108x 38 mm



AC input voltage range .. 90~264VAC; 127~370VDC

AC inrush current Cold start, 40A at 230VAC

DC adjustment range CH1: -5%~+10% (PPQ-1003: CH1&2 -5%~+10%)

Overload protection 105%~135% hiccup mode, auto-recovery (PPQ-100)
105%~135% constant current, auto-recovery (PPQ-1003)

Over voltage protection ... 3.6V~4.3V for 3.3V ; 5.75V~6.75V for 5.0V

Leakage current Less than 3.5mA at 240VAC (PPQ-1003: <1mA)

Setup, rise, hold up time .. 800ms, 50ms, 18ms at full load and 230VAC

Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, 1minute

Working temperature -10°C~60°C (refer to output derating curve)

Safety standards UL60950-1, TUV EN60950-1 approved

EMC standards EN55022 class B, EN61000-3-2,3,
EN61000-4-2,3,4,5,6,8,11, ENV50204

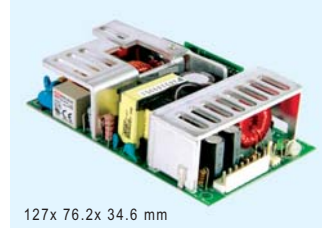
Connection 5P+5P+8P/ 3.96mm pitch, P/N:JST B5/5/8P-VH (PPQ-100)
3P+5P+8P/ 3.96mm pitch, P/N:JST B3/5/8P-VH (PPQ-1003)

Packing 0.62kg ; 24pcs / 15.5kg / 1.34CUFT (PPQ-1003)
0.62kg ; 24pcs / 15.9kg / 1.34CUFT (PPQ-100)

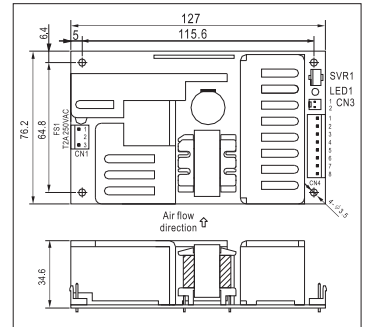
Model No.	Output	Tol.	R&N	Effi.	Max.
PPQ-1003A	3.3V, 0.0~15A	±3%	100mV	72%	109W
	5V, 2.0~15A	±3%	100mV		
	12V, 0.2~3.0A	±6%	150mV		
	-5V, 0.0~1.0A	±6%	100mV		
PPQ-1003B	3.3V, 0.0~15A	±3%	100mV	72%	111W
	5V, 2.0~15A	±3%	100mV		
	12V, 0.2~3.0A	±6%	150mV		
	-12V, 0.0~1.0A	±6%	120mV		
PPQ-1003C	3.3V, 0.0~15A	±3%	100mV	72%	110W
	5V, 2.0~15A	±3%	100mV		
	15V, 0.2~3.0A	+10%, -5%	180mV		
	-15V, 0.0~1.0A	±6%	150mV		
PPQ-1003D	3.3V, 0.0~15A	±3%	100mV	72%	114W
	5V, 2.0~15A	±3%	100mV		
	12V, 0.2~3.0A	±6%	150mV		
	24V, 0.0~1.0A	±6%	150mV		
PPQ-100B	5V, 2.0~15A	±3%	100mV	75%	101W
	12V, 0.3~4.0A	±8%	150mV		
	-12V, 0.0~1.0A	±5%	100mV		
	-5V, 0.0~1.0A	±5%	100mV		
PPQ-100C	5V, 2.0~15A	±3%	100mV	76%	101W
	15V, 0.3~4.0A	-6%, +10%	150mV		
	-15V, 0.0~1.0A	±5%	100mV		
	-5V, 0.0~1.0A	±5%	100mV		
PPQ-100D	5V, 2.0~10A	±3%	100mV	78%	102W
	24V, 0.3~4.0A	±8%	200mV		
	12V, 0.0~1.0A	±5%	100mV		
	-12V, 0.0~1.0A	±5%	100mV		

125W 1,3 Output with PFC Function

- Universal AC input/ Full range
- PF>0.98@115VAC, >0.93@230VAC
- High power density 6.117W/in³
- 3"x5" miniature size
- Protections: Short circuit / Overload / Over voltage
- Built-in remote sense for PPS-125
- LED indicator for power on
- Free air convection for 100W and 125W with 18 CFM forced air
- 100% full load burn-in test
- 3 years warranty



127x 76.2x 34.6 mm



AC input voltage range 90~264VAC; 127~370VDC

AC inrush current Cold start, 24A at 230VAC

DC adjustment range CH1: ±5% rated output voltage

Overload protection 130%~160% fold back current limiting, auto-recovery

Over voltage protection CH1: 110%~135% rated output voltage

Leakage current Less than 2.0 mA at 240VAC

Setup, rise, hold up time 1000ms, 30ms, 24ms at full load and 230VAC

Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, 1minute

Working temperature -20°C~70°C (refer to output derating curve)

Safety standards UL60950-1, TUV EN60950-1 approved

EMC standards EN55022 class B, EN61000-3-2,3,
EN61000-4-2,3,4,5,6,8,11, ENV50204

Connection 3+8P /3.96mm pitch, JST: B3P/B8P-VH (PPS-125)
3+5Px2 /3.96mm pitch, JST: B3P/B5Px2-VH (PPT-125)

Packing 0.37kg; 36pcs / 14.3kg / 0.79CUFT

Single Output

Model No.	Output	Tol.	R&N	Effi.	
PPS-125-3.3	3.3V, 0~25A	±2%	100mV	70%	
PPS-125-5	5V, 0~25A	±2%	100mV	79%	
PPS-125-12	12V, 0~10.5A	±2%	100mV	80%	
PPS-125-13.5	13.5V, 0~9.3A	±2%	100mV	80%	
PPS-125-15	15V, 0~8.4A	±2%	100mV	80%	
PPS-125-24	24V, 0~5.2A	±1%	150mV	83%	
PPS-125-27	27V, 0~4.6A	±1%	150mV	83%	
PPS-125-48	48V, 0~2.6A	±1%	250mV	84%	

Triple Output

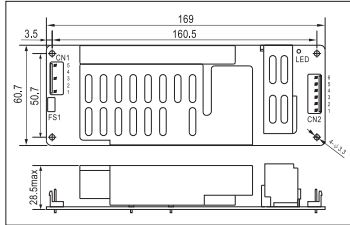
Model No.	Output	Tol.	R&N	Effi.	Max
PPT-125A	3.3V, 1.0~12.5A	±3%	100mV	75%	99W
	5V, 0.8~10.0A	±5%	100mV		
	12V, 0.05~0.63A	±6%	120mV		
PPT-125B	5V, 1.0~14.38A	±3%	100mV	78%	124W
	12V, 0.3~3.75A	±5%	120mV		
	-12V, 0.05~0.63A	±6%	120mV		
PPT-125C	5V, 1.0~13.75A	±3%	100mV	78%	125W
	15V, 0.25~3.13A	±5%	150mV		
	-15V, 0.05~0.63A	±6%	150mV		
PPT-125D	5V, 1.0~8.75A	±3%	100mV	78%	126W
	24V, 0.25~3.13A	±5%	240mV		
	12V, 0.05~0.63A	±6%	120mV		

150W Single Output with PFC Function

- Universal AC input / Full range
- PF>0.98@115VAC; >0.95@230VAC
- Protections: Short circuit / Over load / Over voltage / Over temp.
- Cooling by free air convection
- High power density 8.4W/in³
- No load power consumption<1W
- 100% full load burn-in test
- 3 years warranty



169x 60.7x 28.5 mm



AC input voltage range 90~264VAC; 127~370VDC
 DC adjustment range Can be modified between $\pm 10\%$ rated output voltage by factory
 Overload protection 105%~135% hiccup mode, auto-recovery
 Over voltage protection 110%~135% rated output voltage
 Withstand voltage I/P-O/P: 4.25kVDC, I/P-FG:1.5kVAC, 1minute
 Working temperature 0~40°C@100%, -20°C@80%, 60°C@60% load
 Safety standards UL60950-1 approved
 EMC standards EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, ENV50204
 Connection 5+6P / 3.96mm pitch, JST P/N : B5P / B6P-VH
 Packing 0.32kg; 48pcs / 15.8kg / 0.79CUFT

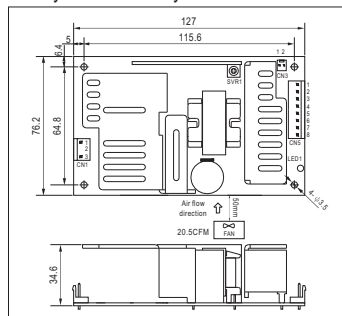
Model No.	Output	Tol.	R&N	Effi.
ASP-150-12	12V, 0~11A	$\pm 2\%$	150mV	88%
ASP-150-15	15V, 0~9.5A	$\pm 2\%$	180mV	88%
ASP-150-20	20V, 0~7.5A	$\pm 1\%$	200mV	90%
ASP-150-24	24V, 0~6.3A	$\pm 1\%$	240mV	90%
ASP-150-48	48V, 0~3.2A	$\pm 1\%$	240mV	89%

200W Single Output with PFC Function

- Universal AC input / Full range
- High efficiency up to 90%
- PF>0.98@115VAC; >0.94@230VAC
- Protections: Short circuit / Over load / Over voltage / Over temp.
- High power density 9.78W/inch³
- 5"x3" compact size
- ZVS technology to reduce power dissipation
- Built-in remote sense function
- Free air convection for 150W and 200W with 20.5 CFM forced air
- 3 years warranty



127x 76.2x 34.6 mm

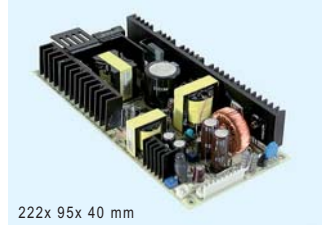


AC input voltage range 90~264VAC; 127~370VDC
 DC adjustment range $\pm 10\%$ rated output voltage
 Overload protection 105%~135% hiccup mode, auto-recovery
 Over voltage protection 115%~135% rated output voltage
 Withstand voltage I/P-O/P: 3kVAC, I/P-FG:1.5kVAC, 1minute
 Working temperature -20°C~70°C (refer to output derating curve)
 Safety standards UL60950-1, TUV EN60950-1 approved
 EMC standards EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, ENV50204
 Connection 3+8P / 3.96mm pitch, JST B3P / B8P-VH
 Packing 0.37kg; 36pcs / 14.3kg / 0.79CUFT

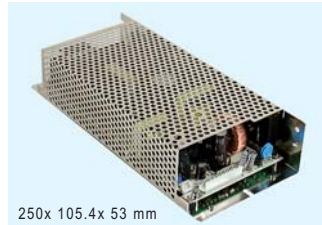
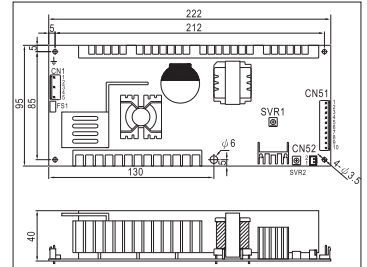
Model No.	Output	Tol.	R&N	Effi.
PPS-200-5	5V, 0~36.0A	$\pm 4\%$	100mV	86%
PPS-200-12	12V, 0~16.6A	$\pm 3\%$	100mV	89%
PPS-200-15	15V, 0~13.3A	$\pm 3\%$	100mV	89%
PPS-200-24	24V, 0~8.30A	$\pm 2\%$	150mV	89%
PPS-200-27	27V, 0~7.40A	$\pm 2\%$	150mV	89%
PPS-200-48	48V, 0~4.167A	$\pm 2\%$	250mV	90%

250W Isolated Dual Output with PFC Function

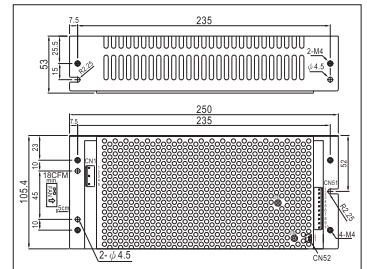
- Universal AC input / Full range
- Isolated output & GND for CH1,CH2
- PF>0.97@115VAC; >0.92@230VAC
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Optional case available
- Cooling by free air convection
- Remote control function for CH1
- Peak load 170% for 10 sec. (CH1)
- 100% full load burn-in test
- 3 years warranty



222x 95x 40 mm



250x 105.4x 53 mm

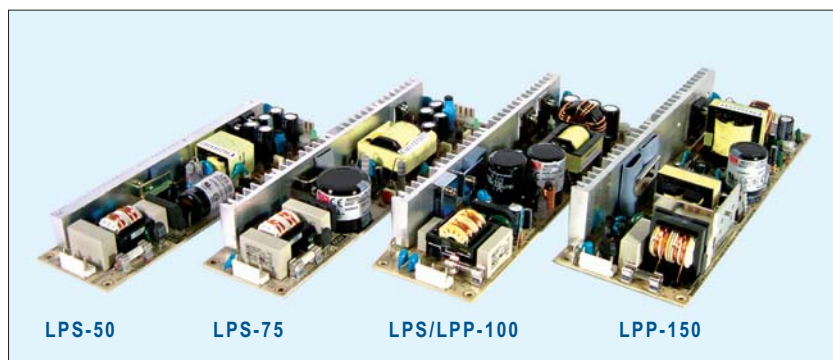


AC input voltage range 90~264VAC; 127~370VDC
 AC inrush current Cold start, 58A at 230VAC
 Leakage current Less than 3.5mA at 240VAC
 DC adjustment range $\pm 10\%$ for CH1; $\pm 5\%$ for CH2
 Overload protection(CH1) 105%~170% normally operation, shut off after 10 sec.; >180%, constant current, shut off after 10 sec.
 (CH2) 101%~150% hiccup mode, auto-recovery
 Over voltage protection CH1: 115%~140%, CH2: 110%~135%
 Setup, rise, hold up time 1200ms, 60ms, 30ms at full load and 230VAC
 Withstand voltage I/P-O/P:3.0kVAC, I/P-FG:1.5kVAC, 1minute
 Working temperature -20°C~70°C (refer to output derating curve)
 Safety standards UL60950-1, TUV EN60950-1 approved
 EMC standards EN55022 class B, EN61000-3-2,-3, EN61000-4-2,3,4,5,6,8,11, ENV50204
 Connection 5+10+2P/3.96mm pitch JST B5P/B10P-VH, B2B-XH
 Packing 0.74Kg; 18pcs / 14.3Kg / 0.88CUFT

Model No.	Output	Tol.	R&N	Effi.
PID-250A	12V, 0~15A	$\pm 3\%$	120mV	83%
PID-250B	5V, 0~5.0A	$\pm 2\%$	50mV	
PID-250B	24V, 0~9.4A	$\pm 2\%$	150mV	86%
PID-250C	5V, 0~5.0A	$\pm 2\%$	50mV	
PID-250C	36V, 0~6.3A	$\pm 2\%$	200mV	86%
PID-250D	5V, 0~5.0A	$\pm 2\%$	50mV	
PID-250D	48V, 0~4.7A	$\pm 2\%$	200mV	86%
PID-250D	5V, 0~5.0A	$\pm 2\%$	50mV	

Feature Description

PID-250 series is suitable for motor-based equipment with logic control circuit. CH1 with high peak power capability can provide the required surge loading while starting up the motor. The isolated 5V/5A CH2 is good for logic control usage and can still work properly even CH1 is malfunction or at any protection modes. The isolated design between CH1 and CH2 can significantly prevent noise of the motor action from entering control circuits and hence secure the accurate operation of the end equipment.



■ Features

- Universal AC input / Full range
- Built-in active PFC function (LPP-100/150)
- Protections: Short circuit / Overload / Over voltage
- Optional over temperature protection for LPP-150
- Built-in remote ON/OFF control (LPS-50/75)
- Cooling by free air convection
- 100% full load burn-in test
- 2 years warranty for LPS series
- 3 years warranty for LPP series

LPS-50	LPS-75	LPS/LPP-100	LPP-150

■ General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.		LPS-50	LPS-75	LPS-100	LPP-100	LPP-150
AC input voltage range		90~264VAC		115/230 auto switch	85~264VAC	
AC inrush current (230VAC)		35A	36A	60A	30A	40A
DC adjustment range		±10% rated output voltage			-5%~+10% rated output voltage	
Overload protection	Range	122%~160%	115%~150%	105%~140%	105%~150% rated output power	
	Type	Hiccup mode, auto recovery			Constant current limiting, auto recovery	
Over voltage protection	Range	110%~135% of rated output voltage				Shut off, AC recycle to re-start
	Type	Hiccup mode, auto recovery				
Withstand voltage		I/P-O/P: 3kVAC, I/P-FG:1.5kVAC, O/P-FG: 0.5kVAC, 1 minute				
Working temperature		-20~+70°C (refer to output derating curve)		-10~+60°C (refer to output derating curve)		
Safety standards		UL60950-1, TUV EN60950-1 approved				
EMC standards		EN55022 class B, EN61000-3-2,3, ENV50204, EN61000-4-2,3,4,5,6,8,11 (EN61000-6-2 heavy industry level for LPS-50/75 only)				
Connection		JST B5P / B4P-VH	JST B5P / B6P-VH	5P+8P/3.96mm pitch, JST B5P / B8P-VH		JST B5P / B6Px2-VH
Dimension (L*W*H)(mm)		195x 55x 23	222x 55x 30	222x 62x 32		222x 75x 41
Packing		48pcs / 12.5kg	48pcs / 15.6kg	24pcs / 12.5kg	24pcs / 13.9kg	24pcs / 16.6kg

■ 50W LPS-50

Model No.	Output	Tol.	R&N	Effi.
LPS-50-3.3	3.3V, 0~10A	±3%	50mV	75%
LPS-50-5	5V, 0~10A	±3%	50mV	81%
LPS-50-12	12V, 0~4.2A	±2%	80mV	82%
LPS-50-15	15V, 0~3.4A	±2%	80mV	84%
LPS-50-24	24V, 0~2.1A	±1%	80mV	85%
LPS-50-48	48V, 0~1.1A	±1%	100mV	86%

■ 75W LPS-75

Model No.	Output	Tol.	R&N	Effi.
LPS-75-3.3	3.3V, 0~15A	±3%	80mV	69%
LPS-75-5	5V, 0~15A	±3%	80mV	77%
LPS-75-12	12V, 0~6.2A	±2%	100mV	80%
LPS-75-15	15V, 0~5.0A	±2%	100mV	81%
LPS-75-24	24V, 0~3.2A	±2%	120mV	83%
LPS-75-48	48V, 0~1.56A	±2%	120mV	83%

■ 100W LPS-100

Model No.	Output	Tol.	R&N	Effi.
LPS-100-3.3	3.3V, 0~20A	±3%	150mV	69%
LPS-100-5	5V, 0~20A	±3%	100mV	77%
LPS-100-7.5	7.5V, 0~13.3A	±2%	100mV	77%
LPS-100-12	12V, 0~8.4A	±2%	100mV	79%
LPS-100-13.5	13.5V, 0~7.5A	±2%	100mV	79%
LPS-100-15	15V, 0~6.7A	±2%	100mV	80%

LPS-100-24	24V, 0~4.2A	±1%	150mV	80%
LPS-100-27	27V, 0~3.8A	±1%	150mV	81%
LPS-100-48	48V, 0~2.1A	±1%	200mV	81%

■ 100W (with PFC Function) LPP-100

Model No.	Output	Tol.	R&N	Effi.
LPP-100-3.3	3.3V, 0~20A	±2%	100mV	69%
LPP-100-5	5V, 0~20A	±2%	100mV	75%
LPP-100-7.5	7.5V, 0~13.5A	±2%	100mV	76%
LPP-100-12	12V, 0~8.5A	±2%	100mV	79%
LPP-100-13.5	13.5V, 0~7.5A	±2%	100mV	79%
LPP-100-15	15V, 0~6.7A	±2%	100mV	80%
LPP-100-24	24V, 0~4.2A	±1%	150mV	83%
LPP-100-27	27V, 0~3.8A	±1%	150mV	83%
LPP-100-48	48V, 0~2.1A	±1%	250mV	83%

■ 150W (with PFC Function) LPP-150

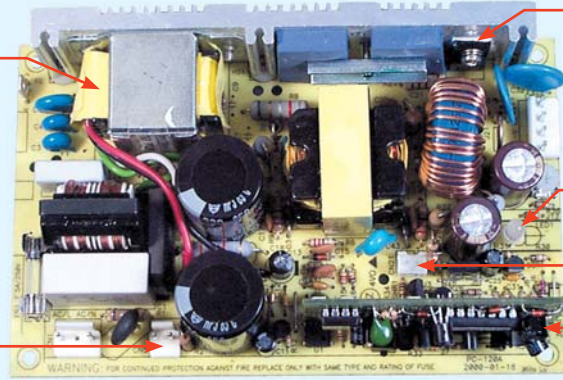
Model No.	Output	Tol.	R&N	Effi.
LPP-150-3.3	3.3V, 0~30A	±2%	150mV	66%
LPP-150-5	5V, 0~30A	±2%	100mV	72%
LPP-150-7.5	7.5V, 0~20A	±2%	100mV	76%
LPP-150-12	12V, 0~12.5A	±2%	100mV	79%
LPP-150-13.5	13.5V, 0~11.2A	±2%	100mV	80%
LPP-150-15	15V, 0~10A	±2%	100mV	80%
LPP-150-24	24V, 0~6.3A	±1%	150mV	83%
LPP-150-27	27V, 0~5.6A	±1%	150mV	83%
LPP-150-48	48V, 0~3.2A	±1%	250mV	83%



PCB Type: 144x 90x 35 mm
External Case Type: 180x 96x 49 mm

Power Factor
Correction Choke

115 / 230
Selectable



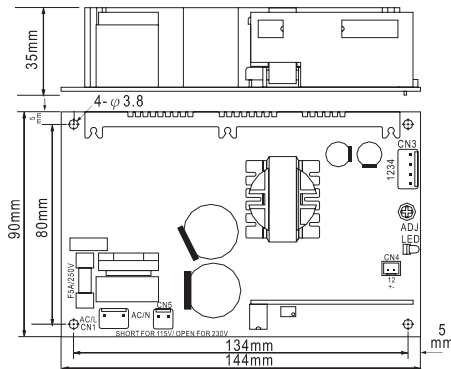
Output Diode of
Charger

2 Color LED
Indication

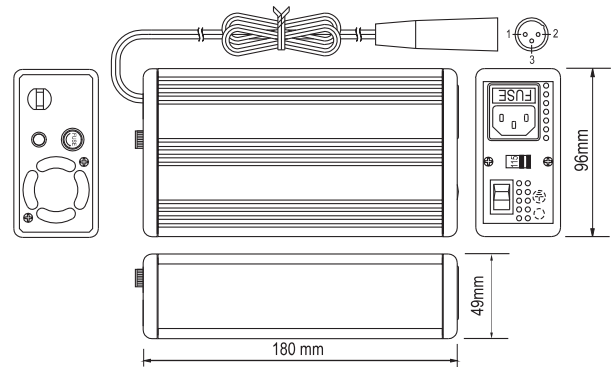
Fan Connector

Fast Charging
Circuit (A/B
Selectable)

P.C.B. Dimension



Case Drawing



Features

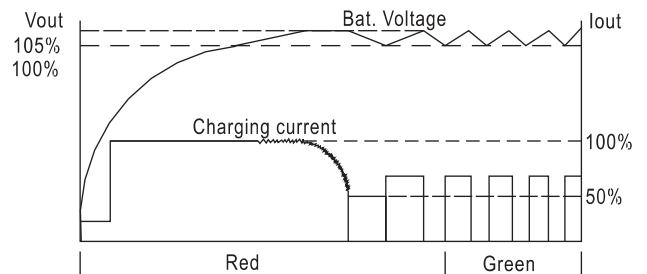
- AC input range selectable by switch
- Passive PFC, PF > 0.65(option)
- Protection for deeply discharged battery
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Charger for lead-acid batteries
- Built-in ON/OFF power switch
- 3 poles AC inlet with fuse holder
- Charging type can be selected (option)
- 2 color LED loading indicator
- EN60335 approved
- Low cost, high reliability
- Open frame models available (without safety approval)
- 2 years warranty

General Specification

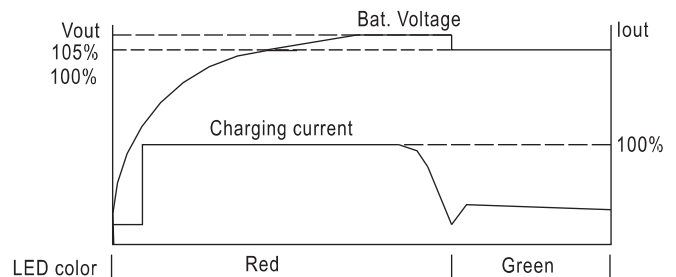
AC input voltage range 88~132VAC/ 176~264VAC selectable by switch
AC inrush current (max.) Cold start, 25A at 115VAC, 50A at 230VAC
Overload protection 90%~110% constant current limiting ,auto-recovery (PS-120: 105~150% hiccup mode, auto recovery)
Over voltage protection 108%~127% rated output voltage
Setup, rise, hold up time 1000ms, 50ms, 16ms at full load and 230VAC
Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, O/P-FG: 0.5kVAC, 1 minute
Working temperature -10°C~45°C, derating curve may vary for different models (PS-120: -10~60°C)
Safety standards UL60950-1, TUV EN60950-1, EN60335, EN60335-1, EN60335-2-29(except for 55.2V) approved
EMC standards EN55022 class B, EN61000-4-2, 3, 4, 5, 6, 8, 11, EN61000-3-2, 3, ENV50204
DC output cable 6 ft. of SPT-2, 18AWGx2C
Standard output connector ... MIC 3P, male type(standard type)
Packing 1.1kg ; 16pcs / 17.9kg / 1.47CUFT (without PFC)
1.24kg ; 16pcs / 20.1kg / 1.47CUFT (with PFC)

Model No.	Output	Tol.	R&N	Effi.
P□-120□-13□	13.8V, 0~7.2A	±3~±8.5%	150mV	73%
P□-120□-27□	27.6V, 0~4.3A	±1~±8.0%	200mV	79%
P□-120□-54□	55.2V, 0~2.2A	±1~±7.5%	250mV	79%

Charging Curve



Type A: pulse charger (detect on bat. voltage)



Type B: 2 section voltage charger (detect on charging current)

Order Information

P A - 120 P - 13 C

S: Power supply
A: Pulse charge
B: 2 section voltage charge

P : Open P.C.B.
C : With case

13: 13.8V
27: 27.6V
54: 55.2V

108W Desktop Power Supply or Charger



CASE: 909 150x 140x 75 mm

- AC input range selectable by switch
- Protections: Short circuit / Overload / Over voltage / Over temp.
- 3 color LED loading indicator
- Battery under / over voltage and polarity protection (ESC only)
- Cooling by free air convection
- Fixed switching frequency at 25kHz
- 2 years warranty

AC input voltage range 88~132VAC / 176~264VAC selectable by switch
 AC inrush current Cold start, 40A at 230VAC
 DC adjustment range 13.5V: 12~15V, 27V: 24~30V, 54V: 48~56V
 Overload protection 105%~135% fold back current limiting, auto-recovery
 Over voltage protection 115%~135% rated output voltage
 Setup, rise, hold up time ... 200ms, 100ms, 36ms at full load and 230VAC
 Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, 1minute
 Working temperature 0~35°C@100%, -10°C@80%, 60°C@60% load
 Safety standards CSA 61010-1 approved
 EMC standards EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4, ENV50204
 Packing 1.38kg ; 8pcs / 12.0kg / 1.1CUFT

Model No.	Output	Tol.	R&N	Effi.
ESC-120-13.5	13.5V, 0~8A	±2%	120mV	81%
ESC-120-27	27V, 0~4A	±1%	150mV	83%
ESC-120-54	54V, 0~2A	±1%	400mV	84%
ESP-120-13.5	13.5V, 0~8A	±2%	120mV	81%
ESP-120-27	27V, 0~4A	±1%	150mV	83%
ESP-120-54	54V, 0~2A	±1%	400mV	84%

216W Desktop Power Supply or Charger



CASE: 909 150x 140x 75 mm

- AC input range selectable by switch
- Protections: Short circuit / Overload / Over voltage / Over temp.
- 3 color LED loading indicator
- Battery under / over voltage and polarity protection (ESC only)
- Built-in DC fan with fan ON/OFF auto control at 50°C
- Fixed switching frequency at 25kHz
- 2 years warranty

AC input voltage range 88~132VAC / 176~264VAC selectable by switch
 AC inrush current Cold start, 40A at 230VAC
 DC adjustment range 13.5V: 12~15V, 27V: 24~30V, 54V: 48~56V
 Overload protection 105%~135% fold back current limiting, auto-recovery
 Over voltage protection 115%~135% rated output voltage
 Setup, rise, hold up time ... 200ms, 100ms, 30ms at full load and 230VAC
 Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, 1minute
 Working temperature 0~40°C@100%, -10°C@80%, 60°C@60% load
 Safety standards CSA 61010-1 approved
 EMC standards EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4, ENV50204
 Packing 1.5kg ; 8pcs / 13.0kg / 1.1CUFT

Model No.	Output	Tol.	R&N	Effi.
ESC-240-13.5	13.5V, 0~16A	±2%	120mV	81%
ESC-240-27	27V, 0~8A	±1%	150mV	84%
ESC-240-54	54V, 0~4A	±1%	400mV	85%
ESP-240-13.5	13.5V, 0~16A	±2%	120mV	81%
ESP-240-27	27V, 0~8A	±1%	150mV	84%
ESP-240-54	54V, 0~4A	±1%	400mV	85%

230W Single Output Battery Charger



(PB-230-xxAD1)



190x 96x 49 mm

- 3 stage charging
- Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- Protections: Short circuit / Over voltage / Over temperature / Reverse polarity
- 2 color LED loading indicator
- Built-in remote ON-OFF control
- Fan ON/OFF control
- Low cost, high reliability
- 2 years warranty

AC input voltage range 90~264VAC; 127~370VDC
 AC inrush current (max.) .. Cold start, 50A at 230VAC
 Over voltage protection 102%~125% shut off, re-power on to recover
 Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, O/P-FG: 0.5kVAC
 Working temperature -20°C~+50°C (refer to output derating curve)
 Safety standards UL1012(PB-230xx-AD1 only), EN60950-1 approved
 EMC standards EN55022 class B, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3, ENV50204
 Packing 1.16Kg ; 12pcs / 14.9Kg / 1.17CUFT

Model No.	Output	Effi.
PB-230-12□	14.4V, 0~16A	82.0%
PB-230-24□	28.8V, 0~8A	85.5%
PB-230-48□	57.6V, 0~4A	86.0%

□ = Blank, AD1; Blank= 4 pin power din, AD1= Anderson connector

300W Single Output Battery Charger



(except for 48V) (P type only)



CASE: 801B 253x 135x 48.5 mm

- Optimal 3 stage charging characteristic
- AC input range selectable by switch
- Passive PFC compliance to EN61000-3-2 class A (option)
- Protections: Reverse polarity / Short circuit / Over voltage / Over temperature
- Charger for lead-acid batteries
- Built-in ON/OFF power switch
- 3 poles AC inlet (IEC 320-C14)
- 2 color LED loading indicator
- Built-in remote ON/OFF control
- Cooling by free air convection
- 3 years warranty

AC input voltage range 90~132VAC / 180~264VAC selectable by switch
 AC inrush current (max.) .. Cold start, 60A at 230VAC
 Over voltage protection 108%~125% rated output voltage
 Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, 1 minute
 Working temperature -10°C~+50°C (refer to output derating curve)
 Safety standards IEC60335-2-29 CB approval by TUV (except for 48V), UL60950-1 approved
 EMC standards EN55022 class B, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3 (P type), ENV50204
 Packing 1.45kg ; 6pcs / 9.7kg / 0.95CUFT

Model No.	Output (20 min.) / (Continuous at 25°C)	Effi.
PB-300□-12	14.4V, 20.85A / 12.5A	85%
PB-300□-24	28.8V, 10.50A / 6.25A	86%
PB-300□-48	57.6V, 5.3A / 3.20A	88%

□ = P: with PFC; N: non PFC

360W Single Output Battery Charger

UL CB CE
(except for 48V) (P type only)



CASE: 801A 253x 135x 48.5 mm

- Optimal 3 stage charging characteristic
- AC input range selectable by switch
- Passive PFC compliance to EN61000-3-2 class A (option)
- Protections: Reverse polarity / Short circuit / Over voltage / Over temperature
- Charger for lead-acid batteries
- Built-in ON/OFF power switch
- 3 poles AC inlet (IEC 320-C14)
- 2 color LED loading indicator
- Built-in remote ON/OFF control
- Cooling by built-in DC fan
- 3 years warranty

AC input voltage range 90~132VAC / 180~264VAC selectable by switch

AC inrush current (max.) .. Cold start, 60A at 230VAC

Over voltage protection 108%~125% rated output voltage

Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, 1 minute

Working temperature -20°C~+60°C (refer to output derating curve)

Safety standards IEC60335-2-29 CB approval by TUV
(except for 48V), UL60950-1 approved

EMC standards EN55022 class B, EN61000-4-2,3,4,5,6,8,11,
EN61000-3-2,3 (P type), ENV50204

Packing 1.5kg ; 6pcs / 10kg / 0.95CUFT

Model No.	Output	Effi.
PB-360□-12	14.4V, 24.3A	85%
PB-360□-24	28.8V, 12.5A	86%
PB-360□-48	57.6V, 6.25A	87%

□ = P: with PFC; N: non PFC

600W Single Output Battery Charger

UL CB CE



CASE: 805C 230x 158x 67 mm

- 2/8 stage smart charger for lead-acid batteries
- Microprocessor controlled power management
- Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- Protections: Reverse polarity / Short circuit / Over voltage / Over temperature
- Built-in temp. compensation function
- Status signal sent by relay contacts
- 3 color LED loading indicator
- Built-in remote ON-OFF control
- Fan speed control (depend on charging current)
- Charging curve can be modified for different battery applications (optional)
- 3 years warranty

AC input voltage range 90~264VAC; 127~370VDC

AC inrush current (max.) .. Cold start, 50A at 230VAC

Over voltage protection 112%~125% shut off, re-power on to recover

Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, O/P-FG: 0.5kVAC

Working temperature -20°C~+60°C (refer to output derating curve)

Safety standards TUV EN60335-1, EN60335-2-29(except for 48V),
EN60950-1(48V only), UL1012 approved

EMC standards EN55022 class B conducted, EN61000-3-2,3,
EN61000-4-2,3,4,5,6,8,11, ENV50204

Connection IEC inlet for input; copper pillars for output

Model No.	Output	Effi.
PB-600-12	14.4V, 0~40.0A	86%
PB-600-24	28.8V, 0~21.0A	87%
PB-600-48	57.6V, 0~10.5A	89%

1000W Single Output Battery Charger

UL CB CE



CASE: 804B 300x 184x 70 mm

- 2/8 stage smart charger for lead-acid batteries
- Microprocessor controlled power management
- Universal AC input / Full range
- Built-in active PFC function PF>0.95
- Protections: Reverse polarity / Short circuit / Over voltage / Over temperature
- Built-in temp. compensation function
- Can be connected to 2 battery banks
- Status signal sent by relay contacts
- 3 color LED loading indicator
- Built-in remote ON-OFF control
- Fan speed control
- Charging curve can be modified for different battery applications (optional)
- 3 years warranty

AC input voltage range 90~264VAC / 127~370VDC

AC inrush current (max.) Cold start, 50A at 230VAC

Over voltage protection 110%~125% shut off, re-power on to recover

Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, 1 minute

Working temperature -20°C~+60°C (refer to output derating curve)

Safety standards UL60950-1, TUV EN60950-1 approved

EMC standards EN55022 class B conducted, ENV50204,
EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3

Connection IEC inlet for input; copper pillars for output

Packing 3.5kg ; 4pcs / 15kg / 1.83CUFT

Model No.	Output	Effi.
PB-1000-12	14.4V, 60.0A	85%
PB-1000-24	28.8V, 34.7A	88%
PB-1000-48	57.6V, 17.4A	89%

Under Development

300W Single Output with Battery Charger (UPS Function)



- Universal AC input / Full range
- Built-in PFC function
- Protections: Short circuit / Overload / Over voltage / Over temperature
Battery low / Battery reverse polarity
- Relay contact for AC OK and battery low
- Cooling by built-in DC fan
- DC output: 13.8V / 13.8V, 27.6V / 27.6V, 55.2V / 55.2V
- High reliability
- Suitable for security industry
- Dimension(LxWxH): 215x 115x 50mm
- 2 years warranty

30W Power Adaptor with Charging Function

- Universal AC input/ Full range
- Class II power (without earth pin)
- No load power consumption < 1W
- Constant current and voltage (CC, CV mode)
- High reliability
- Suitable for high surge current equipment
- Protections: Short circuit / Overload / Over voltage / Over temp.
- 2 color LED indicator for charging status
- Fully enclosed plastic case
- 2 years warranty



AC input voltage range 90~264VAC; 127~370VDC
 Overload protection 90%~110% constant current mode and over 300% pulsing mode
 Over voltage protection 110%~135% rated output voltage, clamp by Zener diode
 Withstand voltage I/P-O/P: 4242VDC, 1minute
 Working temperature 0~40°C @ 100% load, 50°C @ 70% load
 Safety standards UL60950-1, CSA 22.2, TUV EN60950-1
 EMC standards EN55014-1, EN61000-3-2,3, EN61000-4-2,3,4,5,6,11
 Length of output cable 180cm of UL1185, 18AWG
 Standard DC plug P1J: 2.1øx5.5øx11mm / C+, tuning fork type

Model No.	Output	R&N	Effi.
GC30□-0P1J	4.2V, 0~4.00A	50mV	55%
GC30□-1P1J	5.6V, 0~3.99A	50mV	70%
GC30□-11P1J	7.2V, 0~3.00A	80mV	74%
GC30□-2P1J	8.4V, 0~3.00A	80mV	76%
GC30□-4P1J	14.3V, 0~2.09A	100mV	78%
GC30□-5P1J	16.8V, 0~1.60A	100mV	78%
GC30□-6P1J	28.6V, 0~1.04A	150mV	80%

□ = B, U, E; B: IEC320-C8, U: US type plug, E: European type plug

160W Power Adaptor with Charging Function



- Universal AC input/ Full range
- No load power consumption < 1W
- Built-in active PFC function, PF>0.95
- 3 pole AC inlet IEC320-C14
- Class I power (with earth pin)
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Fully enclosed plastic case
- 2 color LED indicator for charging status
- 2 years warranty

AC input voltage range 85~264VAC; 120~370VDC
 Overload protection 90%~110% constant current, auto-recovery
 Over voltage protection 105%~135% rated output voltage, re-power on to recover
 Withstand voltage I/P-O/P: 3kVAC
 Working temperature -30~+70°C (refer to derating curve)
 Safety standards UL1012(GC160Axx-AD1 only), EN60950-1 approved
 EMC standards EN55022 class B, FCC part 15 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Length of output cable 120cm of UL2464, 18AWGx 4C
 Standard DC plug Power DIN 4P with lock type (R7B)

Model No.	Output	Effi.
GC160A12-□	13.6V, 10.0A	89.0%
GC160A24-□	27.2V, 5.89A	92.5%
GC160A48-□	54.4V, 2.95A	94.0%

□ = R7B, AD1; R7B= 4 pin power din, AD1= Anderson connector

218W Power Adaptor with Charging Function



- Universal AC input/ Full range
- No load power consumption < 1W
- Built-in active PFC function, PF>0.91
- Cooling by free air convection
- 3 pole AC inlet IEC320-C14
- Class I power (with earth pin)
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Fully enclosed plastic case
- 2 color LED indicator for charging status
- 2 years warranty

AC input voltage range 90~264VAC; 127~370VDC
 Overload protection 90%~110% constant current, auto-recovery after fault condition is removed
 Over voltage protection 105%~135% rated output voltage, re-power on to recover
 Withstand voltage I/P-O/P: 3kVAC
 Working temperature -10~60°C (refer to derating curve)
 Safety standards TUV EN60950-1, UL1012 (GC220Axx-AD1 only) approved
 EMC standards EN55022 class B, FCC part 15 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Length of output cable 100cm of UL2464, 16AWGx 4C
 Standard DC plug Power DIN 4P with lock type (R7B)

Model No.	Output	Effi.
GC220A12-□	13.6V, 13.5A	89.0%
GC220A24-□	27.2V, 8A	92.5%
GC220A48-□	54.4V, 4A	93.0%

□ = R7B, AD1; R7B= 4 pin power din, AD1= Anderson connector

120W Power Adaptor with Charging Function



UL/TUV/CB/FCC/CE pending



- Universal AC input/ Full range
- No load power consumption < 1W
- Built-in active PFC function, PF>0.95
- 3 pole AC inlet IEC320-C14
- Class I power (with earth pin)
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Fully enclosed plastic case
- 2 color LED indicator for charging status
- 2 years warranty

AC input voltage range 85~264VAC; 120~370VDC
 Overload protection 105%~135% constant current, auto-recovery
 Over voltage protection 105%~135% rated output voltage, re-power on to recover
 Withstand voltage I/P-O/P: 3kVAC
 Working temperature -30~+70°C (refer to derating curve)
 Safety standards Design refer to UL1012(GC120Axx-AD1 only), EN60950-1
 EMC standards EN55022 class B, FCC part 15 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Length of output cable 120cm of UL2464, 16AWGx 4C
 Standard DC plug Power DIN 4P with lock type (R7B)

Model No.	Output	Effi.
GC120A12-□	13.6V, 7.5A	89%
GC120A24-□	27.2V, 4.42A	90%
GC120A48-□	54.4V, 2.21A	91%

□ = R7B, AD1; R7B= 4 pin power din, AD1= Anderson connector

6W Green Power Adaptor

- Universal AC input/ Full range
- No load power consumption < 0.3W
- **ErP step 2 compliant**
- **Meet EISA 2007 (Energy Independence and Security Act)**
- 2 pole US / European type plug
- Class II power (without earth pin)
- Full output 5~48V safety approved
- Protections: Short circuit / Overload / Over voltage
- Pass LPS
- Fully enclosed plastic case
- 2 years warranty



AC input voltage range 90~264VAC, 127~370VDC
 AC inrush current(max.) ... Cold start, <30A peak at 115VAC or <50A peak at 230VAC
 Overload protection Hiccup mode, auto-recovery
 Over voltage protection ... Clamp by zener diode > 120%
 Withstand voltage I/P-O/P: 4242VDC, 1minute
 Working temperature 0~40°C @ 100% load, 50°C @ 70% load
 Safety standards UL60950-1, CSA 22.2, TUV EN60950-1
 EMC standards EN55022-B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,11
 Length of output cable 180cm of UL1185, 20AWG

Model No.	Output	Tol.	R&N	Effi.
GS06□-1P1J	5V, 0~1.00A	±5%	50mV	68%
GS06□-11P1J	7.5V, 0~0.80A	±5%	80mV	74%
GS06□-2P1J	9V, 0~0.66A	±5%	80mV	75%
GS06□-3P1J	12V, 0~0.50A	±3%	100mV	77%
GS06□-4P1J	15V, 0~0.40A	±3%	120mV	78%
GS06□-5P1J	18V, 0~0.33A	±3%	150mV	78%
GS06□-6P1J	24V, 0~0.25A	±2%	180mV	82%
GS06□-8P1J	48V, 0~0.125A	±2%	200mV	84%

□ = U: American 2P ; E: European 2P

12W Green Power Adaptor

- Universal AC input/ Full range
- No load power consumption < 0.3W
- **ErP step 2 compliant**
- **Meet EISA 2007 (Energy Independence and Safety Act)**
- 2 pole US / European type plug
- Class II power (without earth pin)
- Full output 5~24V safety approved
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Pass LPS
- Fully enclosed plastic case
- 2 years warranty



AC input voltage range 90~264VAC, 127~370VDC
 AC inrush current(max.) ... Cold start, <25A peak at 115VAC or 45A peak at 230VAC
 Overload protection Hiccup mode, auto-recovery
 Over voltage protection ... 115%~135% clamp by zener diode
 Withstand voltage I/P-O/P: 3KVAC, 1minute
 Working temperature 0~40°C @ 100% load, 50°C @ 70% load
 Safety standards UL60950-1, CSA 22.2, TUV EN60950-1, CNS14336
 EMC standards EN55022-B, EN61204-3, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, FCC part15 class B, CNS13438

Model No.	Output	Tol.	R&N	Effi.
GS12□05-P1I	5V, 0~2.00A	±5%	75mV	74%
GS12□07-P1I	7.5V, 0~1.60A	±4%	90mV	78%
GS12□09-P1I	9V, 0~1.33A	±4%	90mV	78%
GS12□12-P1I	12V, 0~1.00A	±3%	120mV	78%
GS12□15-P1I	15V, 0~0.80A	±3%	150mV	79%
GS12□18-P1I	18V, 0~0.67A	±3%	180mV	80%
GS12□24-P1I	24V, 0~0.50A	±3%	200mV	80%

□ = U: American 2P ; E: European 2P

15W Green Power Adaptor

- Universal AC input/ Full range
- No load power consumption < 0.3W
- **ErP step 2 compliant**
- **Meet EISA 2007 (Energy Independence and Security Act)**
- Full output 3~48V safety approved
- Protections: Short circuit / Overload / Over voltage
- Pass LPS
- Fully enclosed plastic case
- 2 years warranty



AC input voltage range 90~264VAC
 AC inrush current(max.) ... Cold start, <30A peak at 115VAC or <50A peak at 230VAC
 Overload protection Hiccup mode, auto-recovery
 Over voltage protection ... Clamp by zener diode > 120%
 Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, 1 minute
 Working temperature 0~40°C @ 100% load, 50°C @ 70% load
 Safety standards UL60950-1, CSA 22.2, TUV EN60950-1 approved
 EMC standards EN55022-B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,11
 Length of output cable 180cm of UL1185, 18AWG (150cm length for 3.3V output)
 Standard DC plug P1J: 2.1øx5.5øx11mm / C+, tuning fork type (refer to page 66 for DC plug list)

Order No.	Output	Tol.	R&N	Effi.
GS15□-1P1J	5.0V, 0~2.40A	±5%	50mV	75%
GS15□-11P1J	7.5V, 0~1.60A	±5%	80mV	78%
GS15□-2P1J	9.0V, 0~1.66A	±5%	80mV	80%
GS15□-3P1J	12V, 0~1.25A	±3%	80mV	80%
GS15□-4P1J	15V, 0~1.00A	±3%	100mV	80%
GS15□-5P1J	18V, 0~0.83A	±3%	120mV	81%
GS15□-6P1J	24V, 0~0.62A	±2%	150mV	83%
GS15□-8P1J	48V, 0~0.31A	±2%	240mV	85%

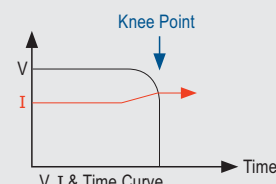
□ = A: IEC320-C14 ; B: IEC320-C8

E: European 2P ; U: American 2P

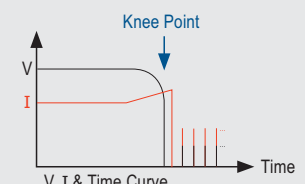
► Special Models Suitable for High Surge Current

GS06 and GS15 also have models with "constant current limiting" instead of "hiccup type" as the overload protection which are suitable for peak load usage. Please refer to the overload curves that specify the output voltage / output current characteristics of these two overload protection types. If you are interested in the models with "constant current limiting" function, please contact with your sales representative for details!

Constant Current Limiting



Hiccup mode current limiting



Green Adaptor 12~24W Single Output and Interchangeable Type



■ Features

- Interchangeable AC plugs (plug kit sold separately)
- Universal AC input / Full range
- No load power consumption <0.3W
- ErP step 2 compliant
- Meet EISA 2007 (Energy Independence and Security Act)
- Class II power (without earth pin)
- Protections: Short circuit / Over voltage / Overload
- Fully enclosed plastic case
- LED indicator for power on
- Pass LPS
- Approvals:
UL / CUL / TUV / CCC / CB / FCC / CE / C-Tick for GE12
UL / CUL / TUV / CB / FCC / CE / C-Tick for GE18/24
- 2 years warranty

■ General Specification (Please refer to www.meanwell.com for detail spec.)



AC input voltage range	90~264VAC / 0.4A for GE12; 90~264VAC / 0.7A for GE18/24
AC inrush current (max.)	Cold start, <40A peak at 100VAC; Cold start, <80A peak at 230VAC
Overload protection	Hiccup mode, auto-recovery
Over voltage protection	115%~135% rated output voltage
Setup, rise, hold up time	4000ms, 100ms, 30ms at 230VAC input
Withstand voltage	I/P-O/P:4242VDC, 1 minute
Working temperature	0~30°C @ 100% load, 40°C @ 75% load, 50°C @ 50% load
Safety standards	UL60950-1, CSA22.2, EN60950-1 approved
EMC standards	EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, FCC part15 class B
Length of output cable	150cm of UL2468, 20AWG for GE12; 150cm of UL2468, 18AWG for GE18/24
Standard DC plug	P1J: 2.1øx5.5øx11mm / C+, tuning fork type (refer to page 66 for DC plug list)

■ Wall-mounted (Interchangeable Type)—12W

Order No. (Main body)	Output	Tol.	R&N	Effi.
GE12I05-P1J	5V, 0~2.00A	±5%	50mV	74%
GE12I07-P1J	7.5V, 0~1.33A	±5%	75mV	77%
GE12I09-P1J	9V, 0~1.33A	±5%	100mV	79%
GE12I12-P1J	12V, 0~1.00A	±3%	120mV	81%
GE12I15-P1J	15V, 0~0.80A	±3%	150mV	82%
GE12I18-P1J	18V, 0~0.83A	±3%	180mV	83%
GE12I24-P1J	24V, 0~0.625A	±3%	240mV	83%

■ Wall-mounted (Interchangeable Type)—24W

Order No. (Main body)	Output	Tol.	R&N	Effi.
GE24I05-P1J	5V, 0~3.00A	±5%	50mV	76.5%
GE24I07-P1J	7.5V, 0~2.00A	±5%	75mV	79.5%
GE24I09-P1J	9V, 0~2.22A	±5%	100mV	81.5%
GE24I12-P1J	12V, 0~2.00A	±3%	120mV	82.5%
GE24I15-P1J	15V, 0~1.60A	±3%	150mV	84.0%
GE24I18-P1J	18V, 0~1.33A	±3%	180mV	84.0%
GE24I24-P1J	24V, 0~1.00A	±3%	240mV	85.0%
GE24I48-P1J	48V, 0~0.50A	±3%	300mV	85.0%

■ Wall-mounted (Interchangeable Type)—18W

Order No. (Main body)	Output	Tol.	R&N	Effi.
GE18I05-P1J	5V, 0~2.40A	±5%	50mV	75%
GE18I07-P1J	7.5V, 0~1.73A	±5%	75mV	79%
GE18I09-P1J	9V, 0~2.00A	±5%	100mV	81%
GE18I12-P1J	12V, 0~1.50A	±3%	120mV	82%
GE18I15-P1J	15V, 0~1.20A	±3%	150mV	84%
GE18I18-P1J	18V, 0~1.00A	±3%	180mV	84%
GE18I24-P1J	24V, 0~0.75A	±3%	240mV	85%
GE18I48-P1J	48V, 0~0.375A	±3%	300mV	85%

► Interchangeable AC Inlet Plug

AC Plug Type		
AC Plug Order No.	AC Plug-AU	AC Plug-UK
AC Plug Type		
AC Plug Order No.	AC Plug-EU	AC Plug-US

Note: Main body unit and AC plug should be ordered separately; The main body needs to be used along with any of the AC plug.



▲ **GS18/25A** 93x 54x 36 mm



▲ **GS18/25B** 79x 54x 33 mm



▲ **GS18/25U** 79x 54x 33 mm



▲ **GS18/25E** 79x 54x 33 mm

Features

- Universal AC input / Full range
- No load power consumption < 0.3W
- ErP step 2 compliant
- Meet EISA 2007 (Energy Independence and Security Act)
- 2 pole USA / EURO plug or IEC320-C14/C8
- Class I power (with earth pin) only for IEC320-C14
- Full output 5~48V safety approved
- Protections: Short circuit / Overload / Over voltage
- Fully enclosed plastic case
- LED indicator for power on
- Pass LPS
- Approvals:
 - UL / CUL / TUV / BSMI / CB / FCC / CE for desktop type
 - TUV / CB / CE for European type plug
 - UL / CUL / BSMI / CB / FCC for US type plug
- 2 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



AC input voltage range	90~264VAC / 0.5A for 18W; 90~264VAC / 0.7A for 25W
AC inrush current (max.)	Cold start, <25A peak at 115VAC; Cold start, <50A peak at 230VAC
Overload protection	Hiccup mode, auto-recovery
Over voltage protection	105%~135% rated output voltage
Setup, rise, hold up time	500ms, 20ms, 50ms@ 230VAC input
Withstand voltage	I/P - O/P: 4242VDC, 1 minute
Working temperature	0~40°C @ 100% load, 50°C @ 70% load
Safety standards	UL60950-1, CSA 22.2, EN60950-1, BSMI CNS14336 approved
EMC standards	EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, FCC part 15 class B
Length of output cable	180cm of UL1185, 18AWG or 120cm, 16AWG for 5V output
Standard DC plug	P1J: 2.1øx5.5øx11mm / C+, tuning fork type (refer to page 66 for DC plug list)

Desktop—18W

□=A/B

Order No.	Output	Tol.	R&N	Effi.
GS18□05-P1J	5V, 0~3.00A	±5%	50mV	76.5%
GS18□07-P1J	7.5V, 0~2.00A	±5%	80mV	80.0%
GS18□09-P1J	9V, 0~2.00A	±5%	80mV	80.5%
GS18□12-P1J	12V, 0~1.50A	±3%	80mV	81.0%
GS18□15-P1J	15V, 0~1.20A	±3%	100mV	82.0%
GS18□18-P1J	18V, 0~1.00A	±3%	150mV	83.0%
GS18□24-P1J	24V, 0~0.75A	±2%	180mV	85.0%
GS18□28-P1J	28V, 0~0.64A	±2%	240mV	85.0%
GS18□48-P1J	48V, 0~0.375A	±2%	240mV	85.0%

A: IEC 320-C14 / Class I, B: IEC 320-C8 / Class II

Desktop—25W

□=A/B

Order No.	Output	Tol.	R&N	Effi.
GS25□05-P1J	5V, 0~4.00A	±5%	50mV	78.0%
GS25□07-P1J	7.5V, 0~2.93A	±5%	80mV	81.0%
GS25□09-P1J	9V, 0~2.77A	±5%	80mV	82.0%
GS25□12-P1J	12V, 0~2.08A	±3%	80mV	82.5%
GS25□15-P1J	15V, 0~1.66A	±3%	100mV	82.5%
GS25□18-P1J	18V, 0~1.38A	±3%	150mV	82.5%
GS25□24-P1J	24V, 0~1.04A	±2%	180mV	84.0%
GS25□28-P1J	28V, 0~0.89A	±2%	240mV	85.0%
GS25□48-P1J	48V, 0~0.52A	±2%	240mV	86.0%

A: IEC 320-C14 / Class I, B: IEC 320-C8 / Class II

Wall-mounted—18W

□=U/E

Order No.	Output	Tol.	R&N	Effi.
GS18□05-P1J	5V, 0~3.00A	±5%	50mV	76.5%
GS18□07-P1J	7.5V, 0~2.00A	±5%	80mV	80.0%
GS18□09-P1J	9V, 0~2.00A	±5%	80mV	80.5%
GS18□12-P1J	12V, 0~1.50A	±3%	80mV	81.0%
GS18□15-P1J	15V, 0~1.20A	±3%	100mV	82.0%
GS18□18-P1J	18V, 0~1.00A	±3%	150mV	83.0%
GS18□24-P1J	24V, 0~0.75A	±2%	180mV	85.0%
GS18□28-P1J	28V, 0~0.64A	±2%	240mV	85.0%
GS18□48P1J	48V, 0~0.375A	±2%	240mV	85.0%

U: US type plug, E: European type plug

Wall-mounted—25W

□=U/E

Order No.	Output	Tol.	R&N	Effi.
GS25□05-P1J	5V, 0~4.00A	±5%	50mV	78.0%
GS25□07-P1J	7.5V, 0~2.93A	±5%	80mV	81.0%
GS25□09-P1J	9V, 0~2.77A	±5%	80mV	82.0%
GS25□12-P1J	12V, 0~2.08A	±3%	80mV	82.5%
GS25□15-P1J	15V, 0~1.66A	±3%	100mV	82.5%
GS25□18-P1J	18V, 0~1.38A	±3%	150mV	82.5%
GS25□24-P1J	24V, 0~1.04A	±2%	180mV	84.0%
GS25□28-P1J	28V, 0~0.89A	±2%	240mV	85.0%
GS25□48-P1J	48V, 0~0.52A	±2%	240mV	86.0%

U: US type plug, E: European type plug



■ Features

- Universal AC input / Full range
- No load power consumption <0.3W for GS40/60; <0.5W for GS90/120
- ErP step 2 compliant
- Meet EISA 2007 (Energy Independence and Security Act) for full series
- Built-in active PFC function, PF >0.91 (GS90) & PF>0.95 (GS120)
- 3 pole AC inlet IEC320-C14
- Class I power (with earth pin)
- Protections: Short circuit / Over voltage / Overload / Over temperature (except for GS40)
- Fully enclosed plastic case
- LED indicator for power on
- Pass LPS (except for GS120)
- 2 years warranty

■ General Specification (Please refer to www.meanwell.com for detail spec.)



Order No.		GS40	GS60	GS90	GS120 
AC input voltage range		90~264VAC / 1.0A	90~264VAC / 1.4A	90~264VAC / 2.0A	
AC inrush current (max.)		Cold start, <65A peak at 230VAC		Cold start, <90A peak at 230VAC	
Overload protection	Range	105%~150% rated output power		110%~150%	105%~135%
	Type	Hiccup mode, auto-recovery			
Over voltage protection		105%~135% rated output voltage			
Setup, rise, hold up time		600ms, 30ms, 50ms at 230VAC input		1000ms, 20ms, 20ms at 230VAC input	2000ms, 20ms, 20ms at 230VAC input
Withstand voltage		I/P-O/P:3kVAC, I/P-FG: 1.5kVAC			I/P-FG: 3kVAC
Working temperature		0~+60℃	-10~+50℃	0~+50℃	-30~+70℃
Safety standards		UL60950-1, EN60950-1, BSMI CNS14336, CCC GB4943 approved			
EMC standards		EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, CNS13438, GB9254, FCC part15 class B			
Length of output cable		100cm of UL2464, 16AWG for 5~9V; 100cm of UL1185, 16AWG for 12~15V; 180cm of UL1185, 18AWG for 18~48V		100cm of UL1185, 14AWG for 12~15V; 120cm of UL1185, 16AWG for 19~48V	120cm of UL2464, 16AWGx4C
Standard DC plug (refer to page 66 for DC plug list)		P1J: 2.1øx5.5øx11mm / C+, tuning fork type		P1M: 2.5øx5.5øx11mm / C+, tuning fork type	R7B: Power DIN 4P with lock type

■ Desktop (IEC 320-C14 / Class I)— 40W

Order No.	Output	Tol.	R&N	Effi.
GS40A05-P1J	5V, 0~5.00A	±5%	100mV	80.5%
GS40A07-P1J	7.5V, 0~5.34A	±5%	100mV	85.5%
GS40A09-P1J	9V, 0~4.45A	±5%	100mV	85.0%
GS40A12-P1J	12V, 0~3.34A	±3%	100mV	89.0%
GS40A15-P1J	15V, 0~2.67A	±3%	100mV	89.5%
GS40A18-P1J	18V, 0~2.22A	±3%	150mV	90.0%
GS40A24-P1J	24V, 0~1.67A	±2.5%	180mV	91.0%
GS40A48-P1J	48V, 0~0.84A	±2.5%	240mV	92.0%

■ Desktop (IEC 320-C14 / Class I)— 60W

Order No.	Output	Tol.	R&N	Effi.
GS60A05-P1J	5V, 0~6.00A	±5%	100mV	81.0%
GS60A07-P1J	7.5V, 0~6.00A	±5%	100mV	85.5%
GS60A09-P1J	9V, 0~6.00A	±5%	100mV	87.5%
GS60A12-P1J	12V, 0~5.00A	±3%	100mV	88.0%
GS60A15-P1J	15V, 0~4.00A	±3%	100mV	88.5%
GS60A18-P1J	18V, 0~3.33A	±3%	150mV	88.5%
GS60A24-P1J	24V, 0~2.50A	±3%	180mV	90.0%
GS60A48-P1J	48V, 0~1.25A	±2.5%	240mV	92.0%

■ Desktop (IEC 320-C14 / Class I)— 90W

Order No.	Output	Tol.	R&N	Effi.
GS90A12-P1M	12V, 0~6.67A	±5%	80mV	88.0%
GS90A15-P1M	15V, 0~6.00A	±5%	100mV	89.0%
GS90A19-P1M	19V, 0~4.74A	±4%	150mV	89.0%
GS90A24-P1M	24V, 0~3.75A	±3%	180mV	89.5%
GS90A48-P1M	48V, 0~1.87A	±2%	240mV	91.0%

■ Desktop (IEC 320-C14 / Class I)— 120W NEW

Order No.	Output	Tol.	R&N	Effi.
GS120A12-R7B	12V, 0~8.5A	±5%	80mV	89%
GS120A15-R7B	15V, 0~7.0A	±5%	100mV	89%
GS120A20-R7B	20V, 0~6.0A	±4%	150mV	90%
GS120A24-R7B	24V, 0~5.0A	±3%	180mV	90%
GS120A48-R7B	48V, 0~2.5A	±2%	240mV	91%

120W Green Power Adaptor



167x 67x 35 mm

- Universal AC input / Full range
- No load power consumption < 0.5W
- ErP step 2 compliant for 24~48V
- Meet EISA 2007(Energy Independence and Security Act) for full series
- Built-in active PFC function, PF>0.95
- 3 pole AC inlet IEC320-C14
- Class I power (with earth pin)
- High power density 5W/in³
- Protections: Short circuit / Overload
Over voltage / Over temp.
- Fully enclosed plastic case
- 2 years warranty

AC input voltage range 90~264VAC or 127~370VDC

Overload protection 105%~135% rated output power, hiccup mode,
auto-recovery

Over voltage protection 110%~140% rated output voltage (typical)

Hold up time 16ms at full load

Withstand voltage I/P-O/P:4.25kVDC, 1 minute

Working temperature 0~+50°C (refer to output load derating curve)

Safety standards UL60950-1, TUV EN60950-1, CCC GB4943,
BSMI CNS14336 approved

EMC standards EN55022 class B, EN61000-3-2,3,
EN61000-4-2,3,4,5,6,8,11, FCC part 15J class B,
GB9254 classB, CNS13438

Length of output cable 12~15V output: 120cm of UL2464, 18AWGx4C
20~48V output: 120cm of UL1185, 16AWGx2C

Standard DC plug.. 12~15V output: Power DIN 4P with lock type (R7B)
20~48V output: 2.5x 5.5x11mm/C+ for tuning fork type (P1M)

Order No.	Output	Tol.	R&N	Effi.
AS-120P-12R7B	12V, 0~8.4A	±4%	100mV	86.0%
AS-120P-15R7B	15V, 0~6.7A	±4%	100mV	87.5%
AS-120P-20P1M	20V, 0~6.0A	±3%	200mV	89.0%
AS-120P-24P1M	24V, 0~5.0A	±2%	200mV	89.0%
AS-120P-48P1M	48V, 0~2.5A	±2%	240mV	89.0%

Compliance List of ErP & EISA

Regulation Series	ErP		EISA 2007
	Step 1	Step 2	
GS06	•	•	•
GS12	•	•	•
GE12	•	•	•
GS15	•	•	•
GS18	•	•	•
GE18	•	•	•
GE24	•	•	•
GS25	•	•	•
GS40	•	•	•
GS60	•	•	•
GS90	•	•	•
GS120	•	•	•
AS-120P-12~20V	•		•
AS-120P-24~48V		•	•
GS160	•	•	•
GS220	•	•	•

160W Green Power Adaptor



175x 72x 35 mm

- Universal AC input / Full range
- No load power consumption < 0.5W
- ErP step 2 compliant
- Meet EISA 2007(Energy Independence and Security Act)
- Built-in active PFC function, PF>0.95
- 3 pole AC inlet IEC320-C14
- Class I power (with earth pin)
- Protections: Short circuit / Overload
Over voltage / Over temp.
- Fully enclosed plastic case
- LED indicator for power on
- 2 years warranty

AC input voltage range 85~264VAC or 120~370VDC

Overload protection 105%~135% rated output power, hiccup mode,
auto-recovery

Over voltage protection 105%~135% rated output voltage (typical)

Hold up time 20ms at full load

Withstand voltage I/P-O/P:3kVAC, 1 minute

Working temperature -30~+70°C (refer to output load derating curve)

Safety standards UL60950-1, TUV EN60950-1, BSMI CNS14336,
CCC GB4943 approved

EMC standards EN55022 class B, EN61000-3-2,3,
EN61000-4-2,3,4,5,6,8,11, FCC part 15 class B,
GB9254 classB, CNS13438 classB

Length of output cable 120cm of UL2464, 18AWGx 4C

Standard DC plug Power DIN 4P with lock type (R7B)

Order No.	Output	Tol.	R&N	Effi.
GS160A12-R7B	12V, 0~11.5A	±5%	80mV	89.0%
GS160A15-R7B	15V, 0~9.6A	±5%	100mV	90.0%
GS160A20-R7B	20V, 0~8.0A	±4%	150mV	92.0%
GS160A24-R7B	24V, 0~6.67A	±3%	180mV	92.5%
GS160A48-R7B	48V, 0~3.34A	±2%	240mV	94.0%

220W Green Power Adaptor



210x 85x 46 mm

- Universal AC input / Full range
- No load power consumption < 0.5W
- ErP step 2 compliant
- Meet EISA 2007(Energy Independence and Security Act)
- Built-in active PFC function, PF>0.91
- 3 pole AC inlet IEC320-C14
- Class I power (with earth pin)
- Protections: Short circuit / Overload
Over voltage / Over temp.
- Fully enclosed plastic case
- LED indicator for power on
- 2 years warranty

AC input voltage range 90~264VAC or 127~370VDC

Overload protection 105%~135% rated output power, hiccup mode,
auto-recovery

Over voltage protection 105%~135% rated output voltage (typical)

Hold up time 20ms at full load

Withstand voltage I/P-O/P:3kVAC, 1 minute

Working temperature -10~+60°C (refer to output load derating curve)

Safety standards UL60950-1, TUV EN60950-1, BSMI CNS14336,
CCC GB4943 approved

EMC standards EN55022 class B, EN61000-3-2,3,
EN61000-4-2,3,4,5,6,8,11,
FCC part 15 class B, GB9254 class B,
CNS13438 class B

Length of output cable 100cm of UL2464, 16AWGx 4C

Standard DC plug Power DIN 4P with lock type (R7B)

Order No.	Output	Tol.	R&N	Effi.
GS220A12-R7B	12V, 0~15.0A	±5%	80mV	90.0%
GS220A15-R7B	15V, 0~13.4A	±5%	100mV	90.0%
GS220A20-R7B	20V, 0~11.0A	±4%	150mV	92.0%
GS220A24-R7B	24V, 0~9.20A	±3%	180mV	93.5%
GS220A48-R7B	48V, 0~4.60A	±2%	240mV	94.5%

25W AC-DC Triple Output

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Fully enclosed plastic case
- Fixed switching frequency and regulation
- Topology: Top switch circuit
- LED indicator for power on
- 1 year warranty



AC input voltage range 90~264VAC / 0.8A
 AC inrush current(max.) Cold start, <60A peak at 230VAC
 Overload protection Hiccup mode, auto-recovery
 Over voltage protection 110~140% of +5V output
 Setup, rise, hold up time ... 200ms, 50ms, 16ms at full load
 Withstand voltage I/P-O/P:3kVAC, I/P-FG:1.5kVAC, 1 minute
 Working temperature 0~+40°C (refer to output load derating curve)
 Safety standards UL1950, CSA 22.2, TUV EN60950-1 approved
 EMC standards EN55022 class B, EN61000-3-2,3, ENV50204, EN61000-4-2,3,4,5,6,11
 Standard output cable 150cm of UL2464
 Length of output cable R1B: DIN 5P

◆ 25W — Triple output (IEC 320-C14 / Class I)

Order No.	Output	Tol.	R&N	Effi.	Max.
P25A13D-R1B	5V, 0.5~2.5A	±5%	50mV	72%	25W
	12V, 0.1~0.8A	±5%	100mV		
	-12V, 0.1~0.3A	±3%	100mV		
P25A14E-R1B	5V, 0.5~2.5A	±5%	50mV	74%	25W
	15V, 0.1~0.5A	±5%	100mV		
	-15V, 0.1~0.3A	±3%	100mV		

◆ 25W — Triple output (IEC 320-C8 / Class II)

Order No.	Output	Tol.	R&N	Effi.	Max.
P25B13D-R1B	5V, 0.5~2.5A	±5%	50mV	72%	25W
	12V, 0.1~0.8A	±5%	100mV		
	-12V, 0.1~0.3A	±3%	100mV		
P25B14E-R1B	5V, 0.5~2.5A	±5%	50mV	74%	25W
	15V, 0.1~0.5A	±5%	100mV		
	-15V, 0.1~0.3A	±3%	100mV		



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50W AC-DC Triple Output



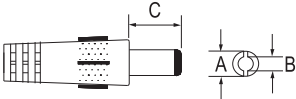
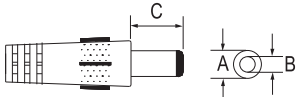
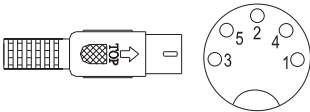
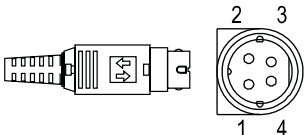
- 3 pole AC inlet IEC320-C14
- Class I power (with earth pin)
- Protections: Short circuit / Overload / Over voltage
- Fully enclosed plastic case
- LED indicator for power on
- 1 year warranty

AC input voltage range 90~264VAC / 1.6A
 AC inrush current(max.) Cold start, <40A at 230VAC
 Overload protection Hiccup mode, auto-recovery
 Over voltage protection 110~140% for +5V output
 Hold up time 12ms at full load
 Withstand voltage I/P-O/P:3kVAC, I/P-FG:1.5kVAC, 1 minute
 Working temperature 0~+40°C (refer to output load derating curve)
 Safety standards UL1950, TUV EN60950-1 approved
 EMC standards EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,11, ENV50204
 Length of output cable 120cm of UL2464
 Standard DC plug..... R1B: DIN 5P

Pin Assignment	
PIN1: COM	
PIN2: COM	
PIN3: +5VDC	
PIN4: -Vout	
PIN5: +Vout	

Order No.	Output	Tol.	R&N	Effi.	Max.
P50A13D-R1B	5V, 0.5~4.0A	±6%	50mV	72%	50W
	12V, 0.5~2.0A	±10%	100mV		
	-12V, 0.1~0.5A	±12%	100mV		
P50A14E-R1B	5V, 0.5~4.0A	±6%	50mV	74%	50W
	15V, 0.5~1.5A	±10%	100mV		
	-15V, 0.1~0.5A	±12%	100mV		

Optional DC Plug List

Tuning Fork Style	Type	A	B	C
		OD	ID	L
	P1I	5.5	2.1	9.5
	P1J	5.5	2.1	11.0
	P1L	5.5	2.5	9.5
	P1M	5.5	2.5	11.0
Barrel Style	Type	A	B	C
		OD	ID	L
	P2I	5.5	2.1	9.5
	P2J	5.5	2.1	11.0
	P2L	5.5	2.5	9.5
	P2M	5.5	2.5	11.0
DIN 5 Pin	Type	Pin Assignment		
	R1B	Single		Triple
		1	COM	COM
		2	COM	COM
		3	Vout	+5V
		4	COM	-Vout
		5	Vout	+Vout
DIN 4 Pin with lock	Type	Pin Assignment		
	R7B	PIN No.		Output
		1		+Vout
		2		GND
		3		GND
		4		+Vout

► Minimum order quantity is varied for different models.



Features

- Universal AC input / Full range
- Full output 3~48V safety approved
- Protections: Short circuit / Over voltage / Overload / Over temp.
- Fully enclosed plastic case
- Fixed switching frequency and regulation
- Topology: Top switch circuit
- Low leakage current $\leq 0.3\text{mA}$
- LED indicator for power on
- Medical safety approved
- 2 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



Order No.	MES30A	MES30C	MES50A	MES30B
AC input voltage range	90~264VAC / 0.8~0.4A			
AC inrush current (max.)	Cold start, <35A peak at 230VAC			
Overload protection	Hiccup mode, auto-recovery			
Over voltage protection	110%~140% rated output voltage		110%~150% rated output voltage	110%~140% rated output voltage
Setup, rise, hold up time	300ms, 50ms, 16ms at full load			
Withstand voltage	I/P-O/P:5656VDC, I/P-FG:2828VDC, 1 minute			I/P-O/P:5656VDC, 1 minute
Working temperature	0~+65°C (refer to output load derating curve)			
Safety standards	UL60601-1, TUV EN60601-1, IEC601-1 approved			
EMC standards	EN55011 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11 (EN60601-1-2)			
Standard output cable	180cm of UL1185,18AWG for 9~48V output ; 120cm of SPT-2,16AWG for 3~7.5V output			
Standard output plug	P1J: 2.1øx5.5øx11mm / C+, tuning fork type (refer to page 66 for DC plug list)			

Desktop (IEC 320-C14 / Class I)— 30W

Order No.	Output	Tol.	R&N	Effi.
MES30A-0P1J	3.3V, 0~5.00A	±8%	30mV	56%
MES30A-1P1J	5V, 0~5.00A	±5%	30mV	70%
MES30A-1-1P1J	7.5V, 0~3.33A	±4%	40mV	72%
MES30A-2P1J	9V, 0~3.33A	±4%	50mV	74%
MES30A-3P1J	12V, 0~2.50A	±3%	50mV	76%
MES30A-4P1J	15V, 0~2.00A	±2%	60mV	78%
MES30A-5P1J	18V, 0~1.66A	±2%	70mV	78%
MES30A-6P1J	24V, 0~1.25A	±2%	80mV	80%
MES30A-7P1J	28V, 0~1.07A	±2%	100mV	80%
MES30A-8P1J	48V, 0~0.62A	±2%	100mV	82%

Desktop (IEC 320-C6 / Class I)— 30W

Order No.	Output	Tol.	R&N	Effi.
MES30C-0P1J	3.3V, 0~5.00A	±8%	30mV	56%
MES30C-1P1J	5V, 0~5.00A	±5%	30mV	70%
MES30C-1-1P1J	7.5V, 0~3.33A	±4%	40mV	72%
MES30C-2P1J	9V, 0~3.33A	±4%	50mV	74%
MES30C-3P1J	12V, 0~2.50A	±3%	50mV	76%
MES30C-4P1J	15V, 0~2.00A	±2%	60mV	78%
MES30C-6P1J	24V, 0~1.25A	±2%	80mV	80%
MES30C-8P1J	48V, 0~0.62A	±2%	100mV	82%

Desktop (IEC 320-C8 / Class II)— 30W

Order No.	Output	Tol.	R&N	Effi.
MES30B-0P1J	3.3V, 0~5.00A	±8%	30mV	56%
MES30B-1P1J	5V, 0~5.00A	±5%	30mV	70%
MES30B-1-1P1J	7.5V, 0~3.33A	±4%	40mV	72%
MES30B-2P1J	9V, 0~3.33A	±4%	50mV	74%
MES30B-3P1J	12V, 0~2.50A	±3%	50mV	76%
MES30B-4P1J	15V, 0~2.00A	±2%	60mV	78%
MES30B-6P1J	24V, 0~1.25A	±2%	80mV	80%
MES30B-8P1J	48V, 0~0.62A	±2%	100mV	82%

Desktop (IEC 320-C14 / Class I)— 50W

Order No.	Output	Tol.	R&N	Effi.
MES50A-0R1B	3.3V, 0~7.50A	±10%	50mV	60%
MES50A-1R1B	5V, 0~7.50A	±6%	50mV	67%
MES50A-1-1R1B	7.5V, 0~5.33A	±5%	75mV	70%
MES50A-2P1J	9V, 0~5.00A	±5%	90mV	72%
MES50A-3P1J	12V, 0~4.16A	±3%	100mV	74%
MES50A-4P1J	15V, 0~3.33A	±3%	100mV	75%
MES50A-5P1J	18V, 0~2.77A	±3%	150mV	78%
MES50A-6P1J	24V, 0~2.08A	±2%	150mV	78%
MES50A-7P1J	28V, 0~1.78A	±2%	150mV	80%
MES50A-8P1J	48V, 0~1.04A	±2%	200mV	80%



■ Features

- To be discontinued. Using GS18 & GS25 as replacement for any new applications is highly recommended
- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
- LED indicator for power on
- Approvals:
UL / CUL / TUV / BSMI / CCC / CB / FCC for ES18 Series
UL / CUL / TUV / BSMI / CB / FCC for ES25 Series
- 1 year warranty

■ General Specification (Please refer to www.meanwell.com for detail spec.)



AC input voltage range	90~264VAC; 127~370VDC
AC inrush current (max.)	Cold start, <20A peak at 115VAC or <40A peak at 230VAC
Overload protection	Hiccup mode, auto-recovery
Over voltage protection	Clamp by zener diode > 120%
Withstand voltage	I/P - O/P: 3kVAC, I/P - FG: 1.5kVAC, 1 minute
Working temperature	0~40°C @ 100% load, 50°C @ 70% load
Safety standards	UL60950-1, CSA 22.2, TUV EN60950-1, BSMI CNS14336, CCC GB4943 approved
EMC standards	FCC part 15 class B, CNS13438, EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,11
Length of output cable	180cm of UL1185, 18AWG
Standard DC plug	P1J: 2.1øx 5.5øx 11mm / C+, tuning fork type (refer to page 66 for DC plug list)

■ Desktop (IEC 320-C14 / Class I) —18W

Order No.	Output	Tol.	R&N	Effi.
ES18A03-P1J	3.3V, 0.3~2.72A	±5%	50mV	55%
ES18A05-P1J	5.0V, 0.3~3.00A	±5%	50mV	70%
ES18A07-P1J	7.5V, 0.3~2.00A	±5%	80mV	72%
ES18A09-P1J	9.0V, 0.2~2.00A	±5%	80mV	72%
ES18A12-P1J	12V, 0.15~1.50A	±3%	80mV	74%
ES18A15-P1J	15V, 0.1~1.20A	±3%	100mV	77%
ES18A18-P1J	18V, 0.1~1.00A	±3%	150mV	78%
ES18A24-P1J	24V, 0.1~0.75A	±2%	180mV	80%
ES18A28-P1J	28V, 0.06~0.64A	±2%	240mV	81%
ES18A48-P1J	48V, 0.05~0.375A	±2%	240mV	82%

■ Desktop (IEC 320-C14 / Class I) —25W

Order No.	Output	Tol.	R&N	Effi.
ES25A05-P1J	5.0V, 0.4~4.00A	±5%	50mV	70%
ES25A07-P1J	7.5V, 0.3~2.93A	±5%	80mV	72%
ES25A09-P1J	9.0V, 0.2~2.77A	±5%	80mV	76%
ES25A12-P1J	12V, 0.1~2.08A	±3%	80mV	76%
ES25A15-P1J	15V, 0.1~1.66A	±3%	100mV	78%
ES25A18-P1J	18V, 0.1~1.38A	±3%	150mV	80%
ES25A24-P1J	24V, 0.1~1.04A	±2%	180mV	82%
ES25A28-P1J	28V, 0.1~0.89A	±2%	240mV	82%
ES25A48-P1J	48V, 0.05~0.52A	±2%	240mV	82%

■ Desktop (IEC 320-C8 / Class II) —18W

Order No.	Output	Tol.	R&N	Effi.
ES18B03-P1J	3.3V, 0.3~2.72A	±5%	50mV	55%
ES18B05-P1J	5.0V, 0.3~3.00A	±5%	50mV	70%
ES18B07-P1J	7.5V, 0.3~2.00A	±5%	80mV	72%
ES18B09-P1J	9.0V, 0.2~2.00A	±5%	80mV	72%
ES18B12-P1J	12V, 0.15~1.50A	±3%	80mV	74%
ES18B15-P1J	15V, 0.1~1.20A	±3%	100mV	77%
ES18B18-P1J	18V, 0.1~1.00A	±3%	150mV	78%
ES18B24-P1J	24V, 0.1~0.75A	±2%	180mV	80%
ES18B28-P1J	28V, 0.06~0.64A	±2%	240mV	81%
ES18B48-P1J	48V, 0.05~0.375A	±2%	240mV	82%

■ Desktop (IEC 320-C8 / Class II) —25W

Order No.	Output	Tol.	R&N	Effi.
ES25B05-P1J	5.0V, 0.4~4.00A	±5%	50mV	70%
ES25B07-P1J	7.5V, 0.3~2.93A	±5%	80mV	72%
ES25B09-P1J	9.0V, 0.2~2.77A	±5%	80mV	76%
ES25B12-P1J	12V, 0.1~2.08A	±3%	80mV	76%
ES25B15-P1J	15V, 0.1~1.66A	±3%	100mV	78%
ES25B18-P1J	18V, 0.1~1.38A	±3%	150mV	80%
ES25B24-P1J	24V, 0.1~1.04A	±2%	180mV	82%
ES25B28-P1J	28V, 0.1~0.89A	±2%	240mV	82%
ES25B48-P1J	48V, 0.05~0.52A	±2%	240mV	82%

■ Desktop (IEC 320-C6 / Class I) —18W

Order No.	Output	Tol.	R&N	Effi.
ES18C03-P1J	3.3V, 0.3~2.72A	±5%	50mV	55%
ES18C05-P1J	5.0V, 0.3~3.00A	±5%	50mV	70%
ES18C07-P1J	7.5V, 0.3~2.00A	±5%	80mV	72%
ES18C09-P1J	9.0V, 0.2~2.00A	±5%	80mV	72%
ES18C12-P1J	12V, 0.15~1.50A	±3%	80mV	74%
ES18C15-P1J	15V, 0.1~1.20A	±3%	100mV	77%
ES18C18-P1J	18V, 0.1~1.00A	±3%	150mV	78%
ES18C24-P1J	24V, 0.1~0.75A	±2%	180mV	80%
ES18C28-P1J	28V, 0.06~0.64A	±2%	240mV	81%
ES18C48-P1J	48V, 0.05~0.375A	±2%	240mV	82%

■ Desktop (IEC 320-C6 / Class I) —25W

Order No.	Output	Tol.	R&N	Effi.
ES25C05-P1J	5.0V, 0.4~4.00A	±5%	50mV	70%
ES25C07-P1J	7.5V, 0.3~2.93A	±5%	80mV	72%
ES25C09-P1J	9.0V, 0.2~2.77A	±5%	80mV	76%
ES25C12-P1J	12V, 0.1~2.08A	±3%	80mV	76%
ES25C15-P1J	15V, 0.1~1.66A	±3%	100mV	78%
ES25C18-P1J	18V, 0.1~1.38A	±3%	150mV	80%
ES25C24-P1J	24V, 0.1~1.04A	±2%	180mV	82%
ES25C28-P1J	28V, 0.1~0.89A	±2%	240mV	82%
ES25C48-P1J	48V, 0.05~0.52A	±2%	240mV	82%



▲ ES18U / ES25U

79x 54x 33 mm



▲ ES18E / ES25E

79x 54x 33 mm

Features

- To be discontinued. Using GS18 & GS25 as replacement for any new applications is highly recommend.
- Universal AC input / Full range
- 2 pole US / European type plug
- Class II power (without earth pin)
- Protections:
Short circuit / Overload / Over voltage
- LED indicator for power on
- Approvals:
UL / CUL / BSMI / CB / FCC for US type plug
TUV / CB for European type plug
- 1 year warranty



General Specification (Please refer to www.meanwell.com for detail spec.)

Order No.	ES18U	ES25U	ES18E	ES25E
AC input voltage range	90~264VAC / 0.5A for18W; 90~264VAC / 0.7A for 25W			
AC inrush current (max.)	Cold start, <20A peak at 115VAC; Cold start, <40A peak at 230VAC			
Overload protection	Hiccup mode, auto-recovery			
Over voltage protection	Clamp by zener diode > 120%			
Setup, rise, hold up time	300ms, 100ms, 16ms@ 230VAC input for ES18; 600ms, 50ms, 16ms@230VAC input for ES25			
Withstand voltage	I/P - O/P: 3kVAC, 1 minute			
Working temperature	0~40°C @ 100% load, 50°C @ 70% load			
Safety standards	UL60950-1, CSA 22.2, CNS14336		EN60950-1	
EMC standards	FCC part 15 class B, EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,11			
Length of output cable	180cm of UL1185, 18AWG			
Standard DC plug	P1J: 2.1øx5.5øx11mm / C+, tuning fork type (refer to page 66 for DC plug list)			

Wall-mounted (US type / Class II) —18W

Order No.	Output	Tol.	R&N	Effi.
ES18U03-P1J	3.3V, 0.3~2.72A	±5%	50mV	55%
ES18U05-P1J	5.0V, 0.3~3.00A	±5%	50mV	70%
ES18U07-P1J	7.5V, 0.3~2.00A	±5%	80mV	72%
ES18U09-P1J	9.0V, 0.2~2.00A	±5%	80mV	72%
ES18U12-P1J	12V, 0.15~1.50A	±3%	80mV	74%
ES18U15-P1J	15V, 0.1~1.20A	±3%	100mV	77%
ES18U18-P1J	18V, 0.1~1.00A	±3%	150mV	78%
ES18U24-P1J	24V, 0.1~0.75A	±2%	180mV	80%
ES18U28-P1J	28V, 0.06~0.64A	±2%	240mV	81%
ES18U48-P1J	48V, 0.05~0.375A	±2%	240mV	82%

Wall-mounted (US type / Class II) —25W

Order No.	Output	Tol.	R&N	Effi.
ES25U05-P1J	5.0V, 0.4~4.00A	±5%	50mV	70%
ES25U07-P1J	7.5V, 0.3~2.93A	±5%	80mV	72%
ES25U09-P1J	9.0V, 0.2~2.77A	±5%	80mV	76%
ES25U12-P1J	12V, 0.1~2.08A	±3%	80mV	76%
ES25U15-P1J	15V, 0.1~1.66A	±3%	100mV	78%
ES25U18-P1J	18V, 0.1~1.38A	±3%	150mV	80%
ES25U24-P1J	24V, 0.1~1.04A	±2%	180mV	82%
ES25U28-P1J	28V, 0.1~0.89A	±2%	240mV	82%
ES25U36-P1J	36V, 0.06~0.69A	±2%	240mV	82%
ES25U48-P1J	48V, 0.05~0.52A	±2%	240mV	82%

Wall-mounted (European type / Class II) —18W

Order No.	Output	Tol.	R&N	Effi.
ES18E03-P1J	3.3V, 0.3~2.72A	±5%	50mV	55%
ES18E05-P1J	5.0V, 0.3~3.00A	±5%	50mV	70%
ES18E07-P1J	7.5V, 0.3~2.00A	±5%	80mV	72%
ES18E09-P1J	9.0V, 0.2~2.00A	±5%	80mV	72%
ES18E12-P1J	12V, 0.15~1.50A	±3%	80mV	74%
ES18E15-P1J	15V, 0.1~1.20A	±3%	100mV	77%
ES18E18-P1J	18V, 0.1~1.00A	±3%	150mV	78%
ES18E24-P1J	24V, 0.1~0.75A	±2%	180mV	80%
ES18E28-P1J	28V, 0.06~0.64A	±2%	240mV	81%
ES18E48-P1J	48V, 0.05~0.375A	±2%	240mV	82%

Wall-mounted (European type / Class II) —25W

Order No.	Output	Tol.	R&N	Effi.
ES25E05-P1J	5.0V, 0.4~4.00A	±5%	50mV	70%
ES25E07-P1J	7.5V, 0.3~2.93A	±5%	80mV	72%
ES25E09-P1J	9.0V, 0.2~2.77A	±5%	80mV	76%
ES25E12-P1J	12V, 0.1~2.08A	±3%	80mV	76%
ES25E15-P1J	15V, 0.1~1.66A	±3%	100mV	78%
ES25E18-P1J	18V, 0.1~1.38A	±3%	150mV	80%
ES25E24-P1J	24V, 0.1~1.04A	±2%	180mV	82%
ES25E28-P1J	28V, 0.1~0.89A	±2%	240mV	82%
ES25E36-P1J	36V, 0.06~0.69A	±2%	240mV	82%
ES25E48-P1J	48V, 0.05~0.52A	±2%	240mV	82%

35W, 50W, 75W Single Output

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage / Battery polarity (by fuse)
- Cooling by free air convection
- LED indicator for power on
- **No load power consumption <0.75W**
- 100% full load burn-in test
- 2 years warranty



AC input voltage range 85~264VAC/ 120~370VDC
 AC inrush current Cold start, 45A
 DC adjustment range 95%~115% rated output voltage
 Overload protection 120%~165%, hiccup mode, auto-recovery
 Over voltage protection 120%~140%, rated output voltage
 Setup, rise, hold up time 500ms, 1200ms, 50ms at full load and 230VAC
 Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, 1minute
 Working temperature -20~60°C (refer to output derating curve)
 Safety standards UL60950-1 approved
 EMC standards EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, ENV50204, EN55024, EN61000-6-1
 Connection I/P: 3 poles, O/P: 2 poles screw terminal
 Packing 0.37Kg ; 45pcs / 17.7Kg / 1CUFT (SCP-35)
 0.45Kg ; 30pcs / 14.5Kg / 0.95CUFT (SCP-50)
 0.5Kg ; 30pcs / 16.0Kg / 1CUFT (SCP-75)

✦ SCP-35 Series

Model No.	Output	Tol.	R&N	Effi.	Max.
SCP-35-12	13.8V, 0~2.6A	±2%	120mV	83%	36W
SCP-35-24	27.6V, 0~1.4A	±1%	200mV	86%	39W

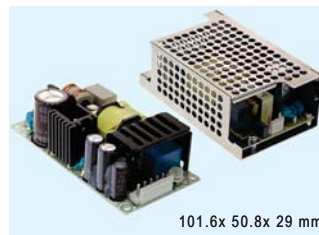
✦ SCP-50 Series

Model No.	Output	Tol.	R&N	Effi.	Max.
SCP-50-12	13.8V, 0~3.6A	±2%	120mV	81%	50W
SCP-50-24	27.6V, 0~1.8A	±1%	200mV	85%	50W

✦ SCP-75 Series

Model No.	Output	Tol.	R&N	Effi.	Max.
SCP-75-12	13.8V, 0~5.4A	±1%	120mV	81%	75W
SCP-75-24	27.6V, 0~2.7A	±1%	200mV	85%	75W

60W Single Output with Battery Charger (UPS Function)



- Universal AC input / Full range
- 4"x 2" compact size
- Protections: Short circuit / Overload / Over voltage
- Battery low protection / Battery reverse polarity protection by fuse
- Alarm signal for AC OK and Battery low
- Cooling by free air convection
- 100% full load burn-in test
- **Optional case available(PSC-60x-C)**
- 2 years warranty

AC input voltage range 90~264VAC; 127~370VDC
 AC inrush current Cold start, 30A at 115VAC, 60A at 230VAC
 DC adjustment range CH1, 13.8V: 12~15V; 27.6V: 24~29V
 Overload protection 105%~150% hiccup mode, auto-recovery
 Over voltage protection CH1: 105%~135% rated output voltage
 Setup, rise, hold up time 800ms, 50ms, 50ms at full load and 230VAC
 Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, 1minute
 Working temperature -20~+70°C (refer to output derating curve)
 Safety standards UL60950-1, TUV EN60950-1 approved
 EMC standards EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, ENV50204
 Connection 3+6P/ 3.96mm pitch, JST: B3P/B6P-VH
 Packing 0.13kg ; 96pcs / 13.5kg / 0.89CUFT

Model No.	Output	Tol.	R&N	Effi.	Max.
PSC-60A□	13.8V, 0~4.3A	±1%	120mV	84%	59W
	13.8V, 0~1.50A	(Charger)			
PSC-60B□	27.6V, 0~2.15A	±1%	240mV	84%	59W
	27.6V, 0~0.75A	(Charger)			

□ = blank, -C ; Blank: PCB Type, -C: Enclosed Type

100W Single Output with Battery Charger (UPS Function)



- Universal AC input / Full range
- 5"x3" compact size
- Protections: Short circuit / Overload / Over voltage
- Battery low protection / Battery reverse polarity protection by fuse
- Relay contact signal for AC OK and battery low
- Cooling by free air convection
- 100% full load burn-in test
- **Optional case available(PSC-100x-C)**
- 2 years warranty

AC input voltage range 90~264VAC; 127~370VDC
 AC inrush current Cold start, 35A at 115VAC, 70A at 230VAC
 DC adjustment range CH1, 13.8V: 12~15V; 27.6V: 24~29V
 Overload protection 105%~150% hiccup mode, auto-recovery
 Over voltage protection CH1: 105%~135% rated output voltage
 Setup, rise, hold up time 2400ms, 30ms, 40ms at full load and 230VAC
 Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, 1minute
 Working temperature -20~+70°C (refer to output derating curve)
 Safety standards UL60950-1, TUV EN60950-1 approved
 EMC standards EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, ENV50204
 Connection 3+8P/ 3.96mm pitch, 4P/2.5mm pitch, JST: B3P/B8P-VH, B4B-XH

Model No.	Output	Tol.	R&N	Effi.	Max.
PSC-100A□	13.8V, 0~7.0A	±1%	100mV	86%	100W
	13.8V, 0~2.5A	(Charger)			
PSC-100B□	27.6V, 0~3.50A	±1%	100mV	88%	101W
	27.6V, 0~1.25A	(Charger)			

□ = blank, -C ; Blank: PCB Type, -C: Enclosed Type



We provide specification, drawing, test report and more information, please visit our website —
<http://www.meanwell.com>

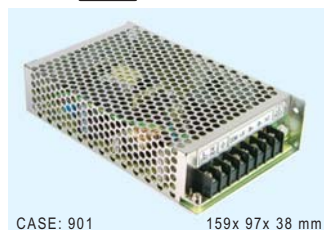


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55W 1~2 Output with Battery Charger

UL US CB CE



CASE: 901 159x 97x 38 mm

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
- Battery low protection (except for ADS series)
- DC alarm signal (optional)
- Cooling by free air convection
- Fixed switching frequency at 45kHz
- Approvals: UL / CUL / TUV / CB / CE
- 100% full load burn-in test
- 2 years warranty

AC input voltage range 88~264VAC; 124~370VDC
 AC inrush current Cold start, 20A at 115VAC, 40A at 230VAC
 DC adjustment range 12V, 24V: $\pm 10\%$
 13.8V: 12~14.5V; 27.6V: 24~29V
 Overload protection 105%~150% hiccup mode, auto-recovery
 Over voltage protection CH1: 105%~135% rated output voltage
 Setup, rise, hold up time 800ms, 50ms, 80ms at full load and 230VAC
 Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, 1minute
 Working temperature -10~60°C (refer to output derating curve)
 Safety standards UL60950-1, TUV EN60950-1 approved
 EMC standards EN55022 class B, EN61000-3-2,3,
 EN61000-4-2,3,4,5,6,8,11, ENV50204
 Connection 8P/ 8.25mm pitch terminal block
 Packing 0.57kg ; 24pcs / 13.7kg / 0.75CUFT

Single Output with 5V, 4A DC-DC Converter

Model No.	Output	Tol.	R&N	Effi.	Max.
ADS-5512	12V, 0~4.0A	$\pm 1\%$	100mV	74%	51W
	5V, 0~4.0A	$\pm 3\%$	100mV		
ADS-5524	24V, 0~2.5A	$\pm 1\%$	100mV	74%	58W
	5V, 0~4.0A	$\pm 3\%$	100mV		

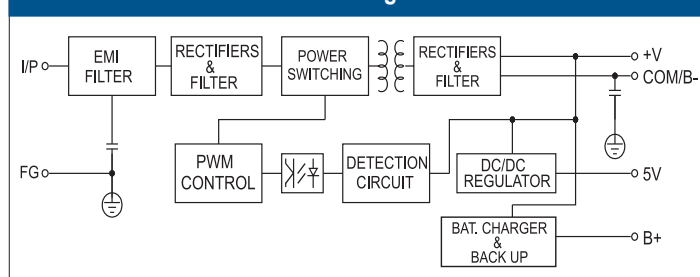
Single Output with Battery Charger (UPS Function)

Model No.	Output	Tol.	R&N	Effi.	Max.
AD-55A	13.8V, 0~4.0A	$\pm 1\%$	100mV	71%	51W
	13.4V, 0~0.23A	(Charger)			
AD-55B	27.6V, 0~2.0A	$\pm 1\%$	100mV	74%	54W
	26.5V, 0~0.16A	(Charger)			

Dual Output with Battery Charger (UPS Function)

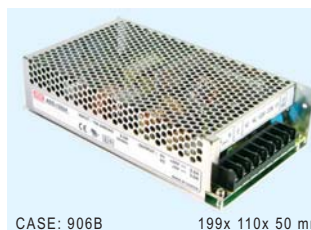
Model No.	Output	Tol.	R&N	Effi.	Max.
ADD-55A	13.8V, 0~3.50A	$\pm 1\%$	100mV	71%	53W
	5V, 0~4.00A	$\pm 3\%$	100mV		
	13.4V, 0~0.23A	(Charger)			
ADD-55B	27.6V, 0~2.00A	$\pm 1\%$	150mV	74%	55W
	5V, 0~4.00A	$\pm 3\%$	150mV		
	26.5V, 0~0.16A	(Charger)			

Block Diagram



155W 1~2 Output with Battery Charger and PFC Function

UL US CB CE



CASE: 906B 199x 110x 50 mm

- Universal AC input / Full range
- PF>0.92@230VAC and full load
- Protections: Short circuit / Overload / Over voltage
- Battery low protection (except for ADS series)
- Cooling by free air convection
- Fixed switching frequency at 134kHz
- Approvals: UL / CUL / TUV / CB / CE
- 100% full load burn-in test
- 2 years warranty

AC input voltage range 88~264VAC; 124~370VDC
 AC inrush current Cold start, 20A at 115VAC, 40A at 230VAC
 DC adjustment range 12V, 24V, 48V: $\pm 10\%$
 13.8V: 12~14.5V; 27.6V: 24~29V; 54V: 48~58V
 Overload protection CH1,2: 105%~135%, charger: 0.51~0.9A;
 constant current limiting, auto-recovery
 Over voltage protection CH1: 115%~135% rated output voltage
 Setup, rise, hold up time 1000ms, 90ms, 24ms at full load and 230VAC
 Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, 1minute
 Working temperature With fan: -10~50°C@100%, 60°C@80% load
 Without fan: -10~50°C@70%, 60°C@50% load
 Safety standards UL60950-1, TUV EN60950-1 approved
 EMC standards EN55022 class B, EN61000-3-2,3,
 EN61000-4-2,3,4,5,6,8,11, ENV50204
 Connection 8P/ 9.5mm pitch terminal block
 Packing 1.0kg ; 16pcs / 16.0kg / 0.95CUFT

Single Output with 5V, 3A DC-DC Converter

Model No.	Output	Tol.	R&N	Effi.	Max.
ADS-15512	12V, 0~12.5A	$\pm 2\%$	150mV	77%	153W
	5V, 0~3.00A	$\pm 3\%$	100mV		
ADS-15524	24V, 0~6.50A	$\pm 1\%$	150mV	82%	154W
	5V, 0~3.00A	$\pm 3\%$	100mV		
ADS-15548	48V, 0~3.20A	$\pm 1\%$	240mV	82%	154W
	5V, 0~3.00A	$\pm 5\%$	100mV		

Single Output with Battery Charger (UPS Function)

Model No.	Output	Tol.	R&N	Effi.	Max.
AD-155A	13.8V, 0~11.5A	$\pm 2\%$	150mV	80%	152W
	13.3V, 0~0.50A	(Charger)			
AD-155B	27.6V, 0~5.50A	$\pm 1\%$	150mV	84%	152W
	27.1V, 0~0.50A	(Charger)			
AD-155C	54.0V, 0~2.70A	$\pm 1\%$	240mV	84%	157W
	53.5V, 0~0.50A	(Charger)			

Dual Output with Battery Charger (UPS Function)

Model No.	Output	Tol.	R&N	Effi.	Max.
ADD-155A	13.8V, 0~10.5A	$\pm 1\%$	150mV	78%	153W
	5V, 0~3.00A	$\pm 3\%$	100mV		
	13.3V, 0~0.50A	(Charger)			
ADD-155B	27.6V, 0~5.00A	$\pm 1\%$	200mV	81%	153W
	5V, 0~3.00A	$\pm 3\%$	100mV		
	27.1V, 0~0.50A	(Charger)			
ADD-155C	54.0V, 0~2.50A	$\pm 1\%$	240mV	81%	150W
	5V, 0~3.00A	$\pm 5\%$	100mV		
	53.5V, 0~0.20A	(Charger)			

104W AC-DC Triple Output for Video Game



- AC input range selectable by switch
- Protections: Short circuit / Overload
- 2 color LED display for 602A, 606A
- Cooling by free air convection
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

AC input voltage range 88~132VAC/ 176~264VAC selectable by switch
 DC adjustment range CH1: -5~+10% rated output voltage
 Overload protection 105%~135% shut off, AC recycle to re-start
 Setup, rise, hold up time 200ms, 50ms, 16ms at full load and 230VAC
 Withstand voltage I/P-O/P: 1.5kVAC, I/P-FG:1.5kVAC, 1minute
 Working temperature 0~40°C@100%, -10°C@80%, 60°C@60% load
 Safety standards UL60950-1, TUV EN60950-1 for MWP-606
 TUV EN60950-1 for MWP-608
 EMC standards EN55022 class B, EN61000-4-2,3,4
 EN60555-2,3 for MWP-606/608 series
 Packing 0.9kg ; 16pcs / 15.4kg / 0.95CUFT

♦ MWP-602 Series

Model No.	Output	Tol.	R&N	Effi.	Max.
MWP-602	5V, 3.0~15A	±2%	50mV	75%	104W
	12V, 0.2~3.0A	±8%	120mV		
	-5V, 0.1~1.0A	±10%	60mV		
MWP-602A	5V, 3.0~15A	±2%	50mV	75%	104W
	12V, 0.2~3.0A	±8%	120mV		
	-5V, 0.1~1.0A	±10%	60mV		

♦ MWP-606 Series



Model No.	Output	Tol.	R&N	Effi.	Max.
MWP-606	5V, 3.0~15A	±2%	50mV	75%	104W
	12V, 0.2~4.0A	±8%	120mV		
	-5V, 0.1~1.0A	±10%	60mV		
MWP-606A	5V, 3.0~15A	±2%	50mV	75%	104W
	12V, 0.2~4.0A	±8%	120mV		
	-5V, 0.1~1.0A	±10%	60mV		

♦ MWP-608 Series



Model No.	Output	Tol.	R&N	Effi.	Max.
MWP-608	5V, 3.0~15A	±2%	50mV	80%	104W
	12V, 0.2~4.0A	±8%	120mV		
	24V, 0.2~4.0A	-5%, +10%	150mV		

304W AC-DC Triple Output for Video Game



- AC input range selectable by switch
- 230VAC input only for MWP-610P
- Built-in passive PFC for MWP-610P, PF>0.65
- Power ON/OFF switch
- Forced air cooling by built-in DC fan
- Protections: Short circuit / Overload / Over voltage / Over temp.
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

AC input voltage range 200~264VAC for MWP-610P;
 100~132VAC/200~264VAC selectable by switch for MWP-610
 Overload protection 105%~180% shut off, AC recycle to re-start
 Over voltage protection 105%~140% rated output voltage
 Hold up time 16ms at full load
 Withstand voltage I/P-O/P: 1.5kVAC, I/P-FG:1.5kVAC, 1minute
 Working temperature 0~35°C@100% load
 EMC standards EN55022 class B, EN61000-3-2,3,
 EN61000-4-2,3,4,5,6,8,11 for MWP-610P

Model No.	Output(10min.) / (Continuous)	Tol.	R&N	Effi.	Max.
MWP-610□	5V, 1.5~8A / 5V, 1.5~8A	±5%	80mV	76%	304W (10 mins.)
	12V, 1~12A / 12V, 1~8A	±5%	150mV		
	24V, 0.5~5A / 35V, 0.5~4.5A	±5%	200mV		244W (cont.)

□ = P: 230VAC only and with passive PFC function
 Blank: 115V/ 230V selected by switch and without PFC function

100W AC-DC ATX Power



- Universal AC input / Full range
- No load power consumption < 1W @240VAC
- 3 pole AC inlet IEC320-C14
- Built-in active PFC function, PF>0.95
- Class I power (with earth pin)
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Power on LED indicator
- Fully enclosed plastic case
- 2 years warranty

Setup, rise, hold up time3000ms, 80ms, 40ms at full load and 230VAC
 Overload protection140%~200% load, shut off
 Over voltage protection 110%~130% rated output voltage (CH1,2,3)
 Withstand voltage I/P-O/P:3kVAC
 Working temperature 0~+40°C@100%, 50°C@80% load
 Safety standards IEC60950-1 CB approved by TUV
 EMC standards EN55022 class B, EN61000-3-2,3, EN61204-3,
 EN61000-4-2,3,4,5,6,8,11, ENV50204
 Length of output cable65cm of UL rated, 18AWGx20C
 Standard DC plug Molex 39-01-2200 or equivalent

Order No.	Output	Tol.	R&N	Effi.	Max.
ATX-100	3.3V, 0~6.0A	±5%	100mV	80%	100W (cont.)
	5V, 0~8.0A	±5%	100mV		
	12V, 1~7.0A	±5%	120mV		125W (7 min.)
	-12V, 0~0.5A	±10%	120mV		150W (3 min.)
	5VSB, 0~2.0A	±5%	100mV		



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200~300W Industrial ATX PC Power Supply



- 240x 83x 40 mm (200 / 250W)
- 260x 83x 40 mm (300W)

- Universal AC input / Full range
- Low profile for 1U/2U rack system
- Built-in active PFC function, PF>0.94
- Protections: Short circuit / Overload / Over voltage
- With power good and fail signal output
- Forced air cooling by built-in DC fan
- Remote sense on CH1, CH2
- PS-ON signal input
- 24V/3A output with 7A peak capability (IPC-300B)
- 2 years warranty

Hold up time 16ms min. at full load and 115Vac
 Overload protection 105%~150% shut off, AC recycle to re-start
 Over voltage protection 110%~140% rated output voltage for CH1~CH3
 Withstand voltage I/P-O/P, I/P-FG:1.5kVAC, 1minute
 Working temperature -10~60°C (refer to output derating curve)
 Safety standards UL60950-1, TUV EN60950-1 approved
 EMC standards EN55022 class B, EN61000-3-2,-3
 EN61000-4-2,3,4,5,6,8,11

Model No.	Output	Tol.	R&N	Effi.	Max.
IPC-200	3.3V, 0~15A	±5%	50mV	75%	200W
	5V, 1~25A	±5%	50mV		
	12V, 1~13A	±7%	120mV		
	-5V, 0~0.5A	±8%	100mV		
	-12V, 0.1~1.0A	±10%	120mV		
IPC-250	5VSB, 0~2.0A	±5%	50mV		250W
	3.3V, 0~20A	±5%	50mV	75%	
	5V, 1~25A	±5%	50mV		
	12V, 1~15A	±7%	120mV		
	-5V, 0~0.5A	±8%	100mV		
IPC-300A	-12V, 0.1~1.0A	±10%	120mV		300W
	5VSB, 0~2.0A	±5%	50mV		
	3.3V, 0~20A	±5%	50mV	75%	
	5V, 1~30A	±5%	50mV		
	12V, 1~18A	±7%	120mV		
IPC-300B	-5V, 0~0.5A	±8%	100mV		300W
	-12V, 0.1~1.0A	±10%	120mV		
	5VSB, 0~2.0A	±5%	50mV		
	24V, 0~3.0A	±5%	240mV	80%	
	5V, 1~30A	±5%	50mV		
	12V, 1~18A	±7%	120mV		
	-5V, 0~0.5A	±8%	100mV		
	-12V, 0.1~1.0A	±10%	120mV		
	5VSB, 0~2.0A	±5%	50mV		

250~350W ATX PC Power Supply

- Universal AC input for YP-350J
- AC input 230VAC only for YP-350A/400A/450A-EU
- AC input range selectable by switch for YP-350A/ 400A / 450A-AA
- Built-in passive PFC for YP-350A/400A/450A-EU
- Built-in active PFC function, PF>0.95 for YP-350J
- Built-in passive PFC function, PF>0.65 for YP-350A/400A/450A-EU
- Protections: Short circuit / Overload

- Power good / fail signal
- Forced air cooling by built-in DC fan
- 100% full load burn-in test
- Low cost, high reliability
- Approvals: YP-350A / 400A / 450A-AA: FCC YP-350A / 400A / 450A-EU: TUV / CB / CE
- 2 years warranty for YP-350J
- 1 year warranty for YP-350A/400A/450A



171x 150x 86 mm



150x 140x 86 mm

Hold up time 8ms min. at full load (YP-350A / 400A / 450A), 10ms min. at full load (YP-350J)
 Overload protection 105%~180% shut off, AC recycle to re-start
 Withstand voltage I/P-O/P, I/P-FG:1.5kVAC, 1minute
 Working temperature -10~40°C at full load and 230VAC (typical)
 Safety standards UL60950-1(YP-350J only), EN60950-1 approved

✦ 103~132VAC / 206~264VAC selectable or 206~264VAC only

Model No.	Output	Tol.	R&N	Effi.	Max.
YP-350A-□	3.3V, 2.0~17A	±5%	50mV	70%	250W
	5V, 2.0~18A	±5%	50mV		
	12V ₁ , 1.0~8.0A	±5%	120mV		
	12V ₂ , 1.0~14A	±5%	120mV		
	-5V, 0.1~0.3A	±10%	50mV		
YP-400A-□	-12V, 0.1~0.8A	±10%	120mV		300W
	5VSB, 0~2.0A	±5%	50mV		
	3.3V, 2.0~20A	±5%	50mV	70%	
	5V, 2.0~20A	±5%	50mV		
	12V ₁ , 1.0~8.0A	±5%	120mV		
YP-450A-□	12V ₂ , 1.0~14A	±5%	120mV		350W
	-5V, 0.1~0.3A	±10%	50mV		
	-12V, 0.1~0.8A	±10%	120mV		
	5VSB, 0~2.0A	±5%	50mV		
	3.3V, 2.0~22A	±5%	50mV	70%	
	5V, 2.0~21A	±5%	50mV		
	12V ₁ , 1.0~10A	±5%	120mV		
	12V ₂ , 1.0~15A	±5%	120mV		
	-5V, 0.1~0.3A	±10%	50mV		
	-12V, 0.1~0.8A	±10%	120mV		
	5VSB, 0~2.0A	±5%	50mV		

□=AA (115/230VAC selectable and without PFC function), EU (230VAC only and with passive PFC function)

✦ 24V Output and Active PFC>0.95 (100~264VAC Input)

Model No.	Output	Tol.	R&N	Effi.	Max.
YP-350J-AA	3.3V, 0.3~14A	±5%	50mV	70%	350W
	5V, 0.1~21A	±5%	50mV		
	12V, 0~15A	-2%, +8%	120mV		
	24V, 0~5.0A	-2%, +8%	150mV		
	-5V, 0~0.3A	±5%	100mV		
	-12V, 0~0.8A	±10%	120mV		
	5VSB, 0~2.0A	±5%	50mV		



Customer Satisfaction —

Today's effort, tomorrow's reward. Continuously improve CQTS to satisfy customer is our goal.



48hrs delivery—

We keep enough stock for 95% of standard models at our 2400m² warehouse. We can arrange prompt delivery within 48hrs.

0.5W DC-DC Regulated Single Output



- 1000VDC I/O isolation
- Internal SMD technology
- Built-in EMI filter
- Protection: Short circuit
- Cooling by free air convection
- Non-conductive plastic case
- Dual in line package
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

Mechanism	Pin Configuration										
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Pin No.	Output										
1 & 16	+Vin										
6 & 11	-Vout										
7 & 10	+Vout										
8 & 9	-Vin										

Voltage set point accuracy.... $\pm 2\%$ (typical)
 Line regulation $\pm 1\%$ (max.)
 Load regulation $\pm 1\%$ (max.)@10~100% load
 Input reflected ripple 120mVp-p
 Efficiency 60% (typical)
 Short circuit protection continuous, auto-recovery
 Switching frequency 50kHz (min.)
 I/O isolation voltage 1000VDC (min.)
 I/O isolation resistance 100M Ω (min.)@ 500VDC
 Isolation capacitance 80pF (max.)
 Working temperature -25°C to +60°C (no derating), +71°C@80% load
 Storage temperature -25°C to +105°C
 Temp. Coefficient $\pm 0.03\%$ / °C (max.)
 Case material non-conductive plastic

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SRS-0505	5 $\pm 10\%$	5	100	100
SRS-0509	5 $\pm 10\%$	9	56	100
SRS-0512	5 $\pm 10\%$	12	42	100
SRS-0515	5 $\pm 10\%$	15	34	100
SRS-1205	12 $\pm 10\%$	5	100	100
SRS-1209	12 $\pm 10\%$	9	56	100
SRS-1212	12 $\pm 10\%$	12	42	100
SRS-1215	12 $\pm 10\%$	15	34	100
SRS-2405	24 $\pm 10\%$	5	100	100
SRS-2409	24 $\pm 10\%$	9	56	100
SRS-2412	24 $\pm 10\%$	12	42	100
SRS-2415	24 $\pm 10\%$	15	34	100
SRS-4805	48 $\pm 10\%$	5	100	100
SRS-4809	48 $\pm 10\%$	9	56	100
SRS-4812	48 $\pm 10\%$	12	42	100
SRS-4815	48 $\pm 10\%$	15	34	100

1W DC-DC Unregulated Single Output



- 1000VDC I/O isolation
- Internal SMD technology
- Built-in EMI filter
- Protection: Short circuit
- Cooling by free air convection
- Non-conductive plastic case
- Dual in line package
- SIP package is available
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

Mechanism	Pin Configuration										
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Pin No.	Output										
1 & 16	+Vin										
6 & 11	-Vout										
7 & 10	+Vout										
8 & 9	-Vin										

Voltage set point accuracy ... $\pm 2\%$ (max.)
 Line regulation $\pm 1.2\%$ (max.) for 1% input variation
 Load regulation $\pm 8\%$ (max.)@20~100% load
 Input reflected ripple 120mVp-p
 Efficiency 83% (typical)
 Short circuit protection Momentary
 Switching frequency 50kHz (min.)
 I/O isolation voltage 1000VDC (min.)
 I/O isolation resistance 100M Ω (min.)@ 500VDC
 Isolation capacitance 80pF (max.)
 Working temperature -25°C to +60°C (no derating), +71°C@80% load
 Storage temperature -25°C to +105°C
 Temp. Coefficient $\pm 0.03\%$ / °C (max.)
 Case material non-conductive plastic

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SUS01L-05	5 $\pm 10\%$	5	200	100
SUS01L-09	5 $\pm 10\%$	9	111	100
SUS01L-12	5 $\pm 10\%$	12	84	100
SUS01L-15	5 $\pm 10\%$	15	67	100
SUS01M-05	12 $\pm 10\%$	5	200	100
SUS01M-09	12 $\pm 10\%$	9	111	100
SUS01M-12	12 $\pm 10\%$	12	84	100
SUS01M-15	12 $\pm 10\%$	15	67	100
SUS01N-05	24 $\pm 10\%$	5	200	100
SUS01N-09	24 $\pm 10\%$	9	111	100
SUS01N-12	24 $\pm 10\%$	12	84	100
SUS01N-15	24 $\pm 10\%$	15	67	100
SUS01O-05	48 $\pm 10\%$	5	200	100
SUS01O-09	48 $\pm 10\%$	9	111	100
SUS01O-12	48 $\pm 10\%$	12	84	100
SUS01O-15	48 $\pm 10\%$	15	67	100

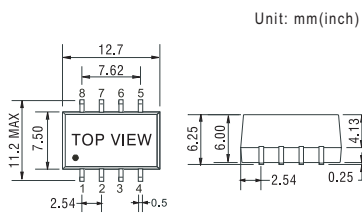
1W DC-DC Unregulated Single Output



0.50"x 0.30"x 0.24"

- 1000VDC I/O isolation
- Internal SMD technology
- Protection: Short circuit
- Cooling by free air convection
- Non-conductive plastic case
- SMD package style
- 100% full load burn-in test
- Low cost, high reliability
- 1 year warranty

Mechanism



Pin Configuration

Pin No.	Output
1	-Vin
2	+Vin
3	NC
4	-Vout
5	+Vout
6	NC
7	NC
8	NC

Voltage set point accuracy	±8% (max.)
Line regulation	±1.2% (max.) for 1% input variation
Load regulation	±8% (max.)@20~100% load
Input reflected ripple	100mVp-p
Efficiency	75% (typical)
Short circuit protection	Momentary
Switching frequency	100kHz (typical)
I/O isolation voltage	1000VDC (min.)
I/O isolation resistance	100MΩ (min.)@ 500VDC
Working temperature	-40°C to +85°C
Storage temperature	-40°C to +105°C
Temp. Coefficient	±0.03% / °C (max.)
Case material	non-conductive plastic
Safety standards	UL60950-1 approved

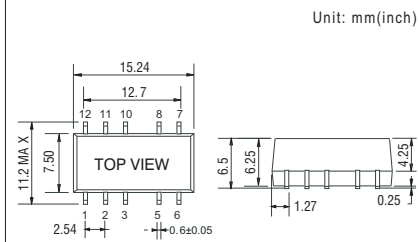
1W DC-DC Unregulated Single and Dual Output



0.60"x 0.30"x 0.24"

- 3000VDC I/O isolation
- Internal SMD technology
- Protection: Short circuit
- Cooling by free air convection
- Non-conductive plastic case
- SMD package style
- 100% full load burn-in test
- Low cost, high reliability
- 1 year warranty

Mechanism



Pin Configuration

Pin No.	Output
1	-Vin
2	+Vin
3	NC
5	-Vout
6	NC
7	NC
8	+Vout
10	NC
11	NC
12	NC

Voltage set point accuracy	±8% (max.)
Line regulation	±1.2% (max.) for 1% input variation
Load regulation	±8% (max.)@20~100% load
Efficiency	79% (typical)
Short circuit protection	Momentary
Switching frequency	100kHz (typical)
I/O isolation voltage	3000VDC (min.)
I/O isolation resistance	100MΩ (min.)@ 500VDC
Working temperature	-40°C to +85°C
Storage temperature	-40°C to +105°C
Temp. Coefficient	±0.03% / °C (max.)
Case material	non-conductive plastic
Safety standards	UL60950-1, CSA C22.2 approved

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SBT01L-05	5±10%	5	200	100
SBT01L-09	5±10%	9	111	100
SBT01L-12	5±10%	12	84	100
SBT01L-15	5±10%	15	67	100
SBT01M-05	12±10%	5	200	100
SBT01M-09	12±10%	9	111	100
SBT01M-12	12±10%	12	84	100
SBT01M-15	12±10%	15	67	100

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SFT01L-05	5±10%	5	200	100
SFT01L-09	5±10%	9	111	100
SFT01L-12	5±10%	12	84	100
SFT01L-15	5±10%	15	67	100
SFT01M-05	12±10%	5	200	100
SFT01M-09	12±10%	9	111	100
SFT01M-12	12±10%	12	84	100
SFT01M-15	12±10%	15	67	100

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
DET01L-05	5±10%	±5	±100	100
DET01L-09	5±10%	±9	±56	100
DET01L-12	5±10%	±12	±42	100
DET01L-15	5±10%	±15	±33	100
DET01M-05	12±10%	±5	±100	100
DET01M-09	12±10%	±9	±56	100
DET01M-12	12±10%	±12	±42	100
DET01M-15	12±10%	±15	±33	100



To Satisfy our customers is our goal —

- High Quality
- Low Cost
- Prompt Delivery
- Best Service



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1W DC-DC Regulated Single Output



- 1000VDC I/O isolation
- Internal SMD technology
- Built-in EMI filter
- Protection: Short circuit
- Cooling by free air convection
- Non-conductive plastic case
- Single in line package
- DIP package is available
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

Mechanism	Pin Configuration										
Unit: mm(inch) FRONT VIEW BOTTOM VIEW	<table border="1"> <thead> <tr> <th>Pin No.</th><th>Output</th></tr> </thead> <tbody> <tr> <td>1</td><td>+Vout</td></tr> <tr> <td>2</td><td>-Vin</td></tr> <tr> <td>4</td><td>-Vout</td></tr> <tr> <td>6</td><td>+Vout</td></tr> </tbody> </table>	Pin No.	Output	1	+Vout	2	-Vin	4	-Vout	6	+Vout
Pin No.	Output										
1	+Vout										
2	-Vin										
4	-Vout										
6	+Vout										

Voltage set point accuracy ... $\pm 2\%$ (typical)

Line regulation $\pm 0.5\%$ (max.)

Load regulation $\pm 0.5\%$ (max.)@10~100% load

Efficiency 80% (typical)

Short circuit protection Continuous, auto-recovery

Switching frequency 100kHz (min.)

I/O isolation voltage 1000VDC (min.)

I/O isolation resistance 100M Ω (min.)

Isolation capacitance 80pF (max.)

Working temperature -25°C to +60°C (no derating), +71°C@80% load

Storage temperature -25°C to +105°C

Temp. Coefficient $\pm 0.03\%$ / °C (max.)

Case material non-conductive plastic

EMI Compliance to EN55022 Class B, FCC part15 Class B

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SPR01L-05	5 $\pm 10\%$	5	200	100
SPR01L-09	5 $\pm 10\%$	9	100	100
SPR01L-12	5 $\pm 10\%$	12	84	100
SPR01L-15	5 $\pm 10\%$	15	67	100
SPR01M-05	12 $\pm 10\%$	5	200	100
SPR01M-09	12 $\pm 10\%$	9	100	100
SPR01M-12	12 $\pm 10\%$	12	84	100
SPR01M-15	12 $\pm 10\%$	15	67	100
SPR01N-05	24 $\pm 10\%$	5	200	100
SPR01N-09	24 $\pm 10\%$	9	100	100
SPR01N-12	24 $\pm 10\%$	12	84	100
SPR01N-15	24 $\pm 10\%$	15	67	100
SPR01O-05	48 $\pm 10\%$	5	200	100
SPR01O-09	48 $\pm 10\%$	9	100	100
SPR01O-12	48 $\pm 10\%$	12	84	100
SPR01O-15	48 $\pm 10\%$	15	67	100

1W DC-DC Unregulated Single Output



- 1500VDC I/O isolation
- Operating temperature range of -40~85°C without derating
- Internal SMD technology
- Built-in EMI filter
- Protection: Short circuit
- Cooling by free air convection
- Non-conductive plastic case
- Dual in line package for SMA01
- SIP package for SMU01
- 100% full load burn-in test
- Industry standard pinout
- 2 years warranty

Mechanism	Pin Configuration										
Unit: mm(inch) FRONT VIEW BOTTOM VIEW	<table border="1"> <thead> <tr> <th>Pin No.</th><th>Output</th></tr> </thead> <tbody> <tr> <td>1</td><td>-Vin</td></tr> <tr> <td>2</td><td>+Vin</td></tr> <tr> <td>3</td><td>-Vout</td></tr> <tr> <td>4</td><td>+Vout</td></tr> </tbody> </table>	Pin No.	Output	1	-Vin	2	+Vin	3	-Vout	4	+Vout
Pin No.	Output										
1	-Vin										
2	+Vin										
3	-Vout										
4	+Vout										
Unit: mm(inch) SIDE VIEW BOTTOM VIEW	<table border="1"> <thead> <tr> <th>Pin No.</th><th>Output</th></tr> </thead> <tbody> <tr> <td>1</td><td>-Vin</td></tr> <tr> <td>4</td><td>+Vin</td></tr> <tr> <td>5</td><td>+Vout</td></tr> <tr> <td>7</td><td>-Vout</td></tr> </tbody> </table>	Pin No.	Output	1	-Vin	4	+Vin	5	+Vout	7	-Vout
Pin No.	Output										
1	-Vin										
4	+Vin										
5	+Vout										
7	-Vout										

Voltage set point accuracy $\pm 2\%$ (max.)

Line regulation $\pm 1.2\%$ (max.) for 1% input variation

Load regulation $\pm 8\%$ (max.)@20~100% load

Input reflected ripple 100mVp-p

Efficiency 80% (typical)

Short circuit protection Momentary

Switching frequency 100kHz (min.)

I/O isolation voltage 1500VDC (min.)

I/O isolation resistance 100M Ω (min.)@ 500VDC

Isolation capacitance 80pF (max.)

Working temperature -40°C to +85°C (no derating)

Storage temperature -25°C to +105°C

EMI Compliance to EN55022 Class B, FCC part15 Class B

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SMU01L-05	5 $\pm 10\%$	5	200	100
SMU01L-09	5 $\pm 10\%$	9	110	100
SMU01L-12	5 $\pm 10\%$	12	84	100
SMU01L-15	5 $\pm 10\%$	15	67	100
SMU01M-05	12 $\pm 10\%$	5	200	100
SMU01M-09	12 $\pm 10\%$	9	110	100
SMU01M-12	12 $\pm 10\%$	12	84	100
SMU01M-15	12 $\pm 10\%$	15	67	100
SMU01N-05	24 $\pm 10\%$	5	200	100
SMU01N-09	24 $\pm 10\%$	9	110	100
SMU01N-12	24 $\pm 10\%$	12	84	100
SMU01N-15	24 $\pm 10\%$	15	67	100

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SMA01L-05	5 $\pm 10\%$	5	200	100
SMA01L-09	5 $\pm 10\%$	9	110	100
SMA01L-12	5 $\pm 10\%$	12	84	100
SMA01L-15	5 $\pm 10\%$	15	67	100
SMA01M-05	12 $\pm 10\%$	5	200	100
SMA01M-09	12 $\pm 10\%$	9	110	100
SMA01M-12	12 $\pm 10\%$	12	84	100
SMA01M-15	12 $\pm 10\%$	15	67	100
SMA01N-05	24 $\pm 10\%$	5	200	100
SMA01N-09	24 $\pm 10\%$	9	110	100
SMA01N-12	24 $\pm 10\%$	12	84	100
SMA01N-15	24 $\pm 10\%$	15	67	100

2W DC-DC Unregulated Single Output



0.77"x 0.28"x 0.4"

- 3000VDC I/O isolation
- Internal SMD technology
- Built-in EMI filter
- Protection: Short circuit
- Cooling by free air convection
- Non-conductive plastic case
- Single in line package
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

Mechanism	Pin Configuration										
Unit: mm(inch) FRONT VIEW 19.6 (0.77) 10.14 (0.40) 3.81 (0.15) 0.5 (0.02) 5.08 (0.20) BOTTOM VIEW 7.1 (0.28) 1.2 (0.05)	<table border="1"> <thead> <tr> <th>Pin No.</th><th>Output</th></tr> </thead> <tbody> <tr> <td>1</td><td>+Vin</td></tr> <tr> <td>2</td><td>-Vin</td></tr> <tr> <td>5</td><td>-Vout</td></tr> <tr> <td>7</td><td>+Vout</td></tr> </tbody> </table>	Pin No.	Output	1	+Vin	2	-Vin	5	-Vout	7	+Vout
Pin No.	Output										
1	+Vin										
2	-Vin										
5	-Vout										
7	+Vout										

Voltage set point accuracy ... $\pm 2\%$ (max.)

Line regulation $\pm 1.2\%$ (max.) for 1% input variation

Load regulation $\pm 8\%$ (max.) @ 20~100% load

Efficiency 83% (typical)

Short circuit protection Momentary

Switching frequency 100kHz (min.)

I/O isolation voltage 3000VDC (min.)

I/O isolation resistance 100M Ω (min.)

Isolation capacitance 80pF (max.)

Working temperature -25°C to +60°C (no derating), +71°C@80% load

Storage temperature -25°C to +105°C

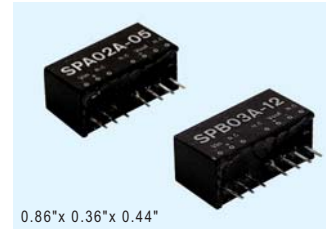
Temp. Coefficient $\pm 0.03\%$ / °C (max.)

Case material non-conductive plastic

EMI Compliance to EN55022 Class B, FCC part15 Class B

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SPU02L-05	5 $\pm 10\%$	5	400	100
SPU02L-12	5 $\pm 10\%$	12	167	100
SPU02L-15	5 $\pm 10\%$	15	133	100
SPU02M-05	12 $\pm 10\%$	5	400	100
SPU02M-12	12 $\pm 10\%$	12	167	100
SPU02M-15	12 $\pm 10\%$	15	133	100
SPU02N-05	24 $\pm 10\%$	5	400	100
SPU02N-12	24 $\pm 10\%$	12	167	100
SPU02N-15	24 $\pm 10\%$	15	133	100

2~3W DC-DC Regulated Single Output



0.86"x 0.36"x 0.44"

- 2:1 wide input range
- 4:1 wide input range (option) for SPA02
- 1000VDC I/O isolation
- 3000VDC I/O isolation (option) for SPA02
- Built-in remote ON/OFF control
- Built-in EMI filter
- Protection: Short circuit / Overload
- Cooling by free air convection
- Non-conductive plastic case
- Single in line package
- 100% full load burn-in test
- Modified models available: output 3.3V / 9V
- 2 years warranty

Mechanism	Pin Configuration																
Unit: mm(inch) FRONT VIEW 21.8 (0.86) 0.5 (0.02) 11.1 (0.44) 0.5 ± 0.05 (0.02) 2.54 (0.1) 17.78 (0.7) 3.81 ± 0.5 (0.15) BOTTOM VIEW 3.2 (0.13) 2.01 (0.08) 9.2 (0.36)	<table border="1"> <thead> <tr> <th>Pin No.</th><th>Output</th></tr> </thead> <tbody> <tr> <td>1</td><td>-Vin</td></tr> <tr> <td>2</td><td>+Vin</td></tr> <tr> <td>3</td><td>R.C.</td></tr> <tr> <td>5</td><td>N.C.</td></tr> <tr> <td>6</td><td>+Vout</td></tr> <tr> <td>7</td><td>-Vout</td></tr> <tr> <td>8</td><td>N.C.</td></tr> </tbody> </table>	Pin No.	Output	1	-Vin	2	+Vin	3	R.C.	5	N.C.	6	+Vout	7	-Vout	8	N.C.
Pin No.	Output																
1	-Vin																
2	+Vin																
3	R.C.																
5	N.C.																
6	+Vout																
7	-Vout																
8	N.C.																

Voltage set point accuracy $\pm 2\%$ (max.)

Line regulation $\pm 0.5\%$ (max.)

Load regulation $\pm 0.5\%$ (max.) @ 10~100% load

Efficiency 82% (typical)

Short circuit protection Continuous, auto-recovery

Overload protection 150%~250%, auto-recovery

Switching frequency 100kHz (min.)

I/O isolation voltage 1000VDC (min.)

I/O isolation resistance 100M Ω (min.)

Isolation capacitance 80pF (max.)

Working temperature -40°C to +70°C (no derating), +85°C@50% load

Storage temperature -25°C to +105°C

Temp. Coefficient $\pm 0.03\%$ / °C (max.)

Case material non-conductive plastic

EMI Compliance to EN55022 Class B, FCC part15 Class B

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SPA02E-05	4.5~9	5	400	60
SPA02E-12	4.5~9	12	150	60
SPA02E-15	4.5~9	15	120	60
SPA02A-05	9~18	5	400	60
SPA02A-12	9~18	12	167	60
SPA02A-15	9~18	15	133	60
SPA02B-05	18~36	5	400	60
SPA02B-12	18~36	12	167	60
SPA02B-15	18~36	15	133	60
SPA02C-05	36~72	5	400	60
SPA02C-12	36~72	12	167	60
SPA02C-15	36~72	15	133	60

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SPB03E-05	4.5~9	5	600	50
SPB03E-12	4.5~9	12	250	60
SPB03E-15	4.5~9	15	200	60
SPB03A-05	9~18	5	600	50
SPB03A-12	9~18	12	250	60
SPB03A-15	9~18	15	200	60
SPB03B-05	18~36	5	600	50
SPB03B-12	18~36	12	250	60
SPB03B-15	18~36	15	200	60
SPB03C-05	36~72	5	600	50
SPB03C-12	36~72	12	250	60
SPB03C-15	36~72	15	200	60



Who can provide you better services and be a trustworthy partner in the power industry?

— "MEAN WELL" tries to be —



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• One Stop Shopping

• Total Solution

3W DC-DC Regulated Single and Dual Output



1.25"x 0.8"x 0.48"

- 2:1 wide input range
- 4:1 wide input range (option)
- 1000VDC I/O isolation
- 3000VDC I/O isolation (option)
- Built-in EMI filter
- Protection: Short circuit / Overload
- Cooling by free air convection
- Five-sided shield metal case
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

Mechanism	Pin Configuration														
	<table border="1"> <thead> <tr> <th>Pin No.</th><th>Output</th></tr> </thead> <tbody> <tr> <td>2&3</td><td>-Vin</td></tr> <tr> <td>9</td><td>NC</td></tr> <tr> <td>11</td><td>NC</td></tr> <tr> <td>14</td><td>+Vout</td></tr> <tr> <td>16</td><td>-Vout</td></tr> <tr> <td>22&23</td><td>+Vin</td></tr> </tbody> </table>	Pin No.	Output	2&3	-Vin	9	NC	11	NC	14	+Vout	16	-Vout	22&23	+Vin
Pin No.	Output														
2&3	-Vin														
9	NC														
11	NC														
14	+Vout														
16	-Vout														
22&23	+Vin														

Voltage set point accuracy $\pm 2\%$ (max.)
 Line regulation $\pm 0.5\%$ (max.)
 Load regulation $\pm 0.5\%$ (max.)@10~100% load
 Efficiency 82% (typical)
 Short circuit protection Continuous, auto-recovery
 Overload protection 160%~250%, auto-recovery
 I/O isolation voltage 1000VDC (min.)
 I/O isolation resistance 100M Ω (min.)@ 500VDC
 Isolation capacitance 80pF (max.)
 Working temperature -25°C to +60°C (no derating),
 +71°C@80% load
 Storage temperature -25°C to +105°C
 Temp. Coefficient $\pm 0.03\%$ / °C (max.)
 Case material Five-sided shield metal case
 EMI Compliance to EN55022 Class B,
 FCC part15 Class B

Single Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SCW03A-05	9~18	5	600	50
SCW03A-12	9~18	12	250	60
SCW03A-15	9~18	15	200	60
SCW03B-05	18~36	5	600	50
SCW03B-12	18~36	12	250	60
SCW03B-15	18~36	15	200	60
SCW03C-05	36~72	5	600	50
SCW03C-12	36~72	12	250	60
SCW03C-15	36~72	15	200	60

Dual Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
DCW03A-05	9~18	± 5	± 300	50
DCW03A-12	9~18	± 12	± 125	60
DCW03A-15	9~18	± 15	± 100	60
DCW03B-05	18~36	± 5	± 300	50
DCW03B-12	18~36	± 12	± 125	60
DCW03B-15	18~36	± 15	± 100	60
DCW03C-05	36~72	± 5	± 300	50
DCW03C-12	36~72	± 12	± 125	60
DCW03C-15	36~72	± 15	± 100	60

5~6W DC-DC Regulated Single and Dual Output



1.25"x 0.8"x 0.48"

- 2:1 wide input range
- 4:1 wide input range(option)
- 1000VDC I/O isolation
- 3000VDC I/O isolation(option)
- Built-in EMI filter
- Protection: Short circuit / Overload
- Cooling by free air convection
- Five-sided shield metal case
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

Mechanism	Pin Configuration														
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Pin No.	Output														
2&3	-Vin														
9	NC														
11	NC														
14	+Vout														
16	-Vout														
22&23	+Vin														

Voltage set point accuracy $\pm 2\%$ (max.)
 Line regulation $\pm 0.5\%$ (max.)
 Load regulation $\pm 0.5\%$ (max.)@20~100% load
 Efficiency 85% (typical)
 Short circuit protection continuous, auto-recovery
 Overload protection 150%~250%, auto-recovery
 I/O isolation voltage 1000VDC (min.)
 I/O isolation resistance 100M Ω (min.)@ 500VDC
 Isolation capacitance 80pF (max.)
 Working temperature -25°C to +60°C (no derating),
 +71°C@80% load
 Storage temperature -25°C to +105°C
 Temp. Coefficient $\pm 0.03\%$ / °C (max.)
 Case material Five-sided shield metal case
 EMI Compliance to EN55022 Class B,
 FCC part15 Class B

Single Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SCW05A-05	9~18	5	1000	50
SCW05A-09	9~18	9	556	60
SCW05A-12	9~18	12	470	60
SCW05A-15	9~18	15	400	60
SCW05B-05	18~36	5	1000	50
SCW05B-09	18~36	9	556	60
SCW05B-12	18~36	12	470	60
SCW05B-15	18~36	15	400	60
SCW05C-05	36~72	5	1000	50
SCW05C-09	36~72	9	556	60
SCW05C-12	36~72	12	470	60
SCW05C-15	36~72	15	400	60

Dual Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
DCW05A-05	9~18	± 5	± 500	50
DCW05A-12	9~18	± 12	± 230	60
DCW05A-15	9~18	± 15	± 190	60
DCW05B-05	18~36	± 5	± 500	50
DCW05B-12	18~36	± 12	± 230	60
DCW05B-15	18~36	± 15	± 190	60
DCW05C-05	36~72	± 5	± 500	50
DCW05C-12	36~72	± 12	± 230	60
DCW05C-15	36~72	± 15	± 190	60

5W DC-DC Regulated Single and Dual Output



2"x 1"x 0.44"

- 2:1 wide input range
- 4:1 wide input range(option)
- 1000VDC I/O isolation
- 3000VDC I/O isolation(option)
- Built-in EMI filter
- Protection: Short circuit / Overload
- Cooling by free air convection
- Six-sided shield metal case
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

Mechanism	Pin Configuration																			
Unit: mm(inch) Unit: mm(inch) 15.3 20.3 15.2 11.27 (0.44) 2.5 10.2 10.1 10.2 5.8 2.5 50.8 (2.00) 25.4 (1.00) 1 2 3 4 5 BOTTOM VIEW <table><tr><th rowspan="2">Pin No.</th><th colspan="2">Output</th></tr><tr><th>Single</th><th>Dual</th></tr><tr><td>1</td><td>+Vin</td><td>+Vin</td></tr><tr><td>2</td><td>-Vin</td><td>-Vin</td></tr><tr><td>3</td><td>+Vout</td><td>+Vout</td></tr><tr><td>4</td><td>No Pin</td><td>COM</td></tr><tr><td>5</td><td>-Vout</td><td>-Vout</td></tr></table>	Pin No.	Output		Single	Dual	1	+Vin	+Vin	2	-Vin	-Vin	3	+Vout	+Vout	4	No Pin	COM	5	-Vout	-Vout
Pin No.		Output																		
	Single	Dual																		
1	+Vin	+Vin																		
2	-Vin	-Vin																		
3	+Vout	+Vout																		
4	No Pin	COM																		
5	-Vout	-Vout																		

Voltage set point accuracy ... $\pm 2\%$ (max.)
 Line regulation $\pm 0.2\%$ (max.)
 Load regulation $\pm 0.5\%$ (max.)@10~100% load
 Efficiency 85% (typical)
 Short circuit protection continuous, auto-recovery
 Overload protection 160%~250%, auto-recovery
 I/O isolation voltage 1000VDC (min.)
 I/O isolation resistance 100M Ω (min.)@ 500VDC
 Working temperature -25°C to +60°C (no derating), +71°C@80% load
 Storage temperature -25°C to +105°C
 Temp. Coefficient $\pm 0.03\%$ / °C (max.)
 Case material Six-sided shield metal case
 EMI Compliance to EN55022 Class B,
 FCC part15 Class B

Single Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SLW05A-05	9~18	5	1000	50
SLW05A-09	9~18	9	556	60
SLW05A-12	9~18	12	417	60
SLW05A-15	9~18	15	333	60
SLW05B-05	18~36	5	1000	50
SLW05B-09	18~36	9	556	60
SLW05B-12	18~36	12	417	60
SLW05B-15	18~36	15	333	60
SLW05C-05	36~72	5	1000	50
SLW05C-09	36~72	9	556	60
SLW05C-12	36~72	12	417	60
SLW05C-15	36~72	15	333	60

Dual Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
DLW05A-05	9~18	± 5	± 500	50
DLW05A-12	9~18	± 12	± 208	60
DLW05A-15	9~18	± 15	± 167	60
DLW05B-05	18~36	± 5	± 500	50
DLW05B-12	18~36	± 12	± 208	60
DLW05B-15	18~36	± 15	± 167	60
DLW05C-05	36~72	± 5	± 500	50
DLW05C-12	36~72	± 12	± 208	60
DLW05C-15	36~72	± 15	± 167	60

8W DC-DC Regulated Single and Dual Output



1.25"x 0.8"x 0.48"

- 2:1 wide input range
- 1000VDC I/O isolation
- Built-in EMI filter
- Protection: Short circuit / Overload
- Cooling by free air convection
- Five-sided shield metal case
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

Mechanism

Pin Configuration

Unit: mm(inch)

The drawing shows the bottom view of a rectangular component with the following dimensions:

- Overall width: 20.3 (0.80)
- Overall height: 31.8 (1.25)
- Left side features:
 - Top hole: $\varnothing 23$
 - Bottom hole: $\varnothing 14$
 - Distance between holes: 15.2 (0.60)
 - Right side hole: $\varnothing 16$
- Right side features:
 - Top hole: $\varnothing 22$
 - Bottom hole: $\varnothing 11$
 - Distance between holes: 12.2 (0.48)
- Internal features:
 - Top internal hole: $\varnothing 2.54$ (0.1)
 - Bottom internal hole: $\varnothing 5.08$ (0.2)
 - Distance between internal holes: 17.8 (0.70)
 - Top internal hole offset from right edge: 0.6 + 0.1 - 0.1 (0.024)
 - Bottom internal hole offset from right edge: 3.8 (0.15)

BOTTOM VIEW

Pin No.	Output	
	Single	Dual
2&3	-Vin	-Vin
9	NC	COM
11	NC	-Vout
14	+Vout	+Vout
16	-Vout	COM
22&23	+Vin	+Vin

Voltage set point accuracy $\pm 2\%$ (max.)
 Line regulation $\pm 0.5\%$ (max.)
 Load regulation $\pm 0.5\%$ (max.)@20~100% load
 Efficiency 81% (typical)
 Short circuit protection continuous, auto-recovery
 Overload protection 110%~250%, auto-recovery
 I/O isolation voltage 1000VDC (min.)
 I/O isolation resistance 100M Ω (min.)@ 500VDC
 Isolation capacitance 250pF (max.)
 Working temperature -25°C to +60°C (no derating),
 +71°C@80% load
 Storage temperature -25°C to +105°C
 Temp. Coefficient $\pm 0.03\%$ / °C (max.)
 Case material Five-sided shield metal case
 EMI Compliance to EN55022 Class B,
 FCC part15 Class B

Single Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SCW08A-05	9~18	5	1600	50
SCW08A-12	9~18	12	670	60
SCW08A-15	9~18	15	533	60
SCW08B-05	18~36	5	1600	50
SCW08B-12	18~36	12	670	60
SCW08B-15	18~36	15	533	60
SCW08C-05	36~72	5	1600	50
SCW08C-12	36~72	12	670	60
SCW08C-15	36~72	15	533	60

Dual Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
DCW08A-05	9~18	± 5	± 800	50
DCW08A-12	9~18	± 12	± 335	60
DCW08A-15	9~18	± 15	± 267	60
DCW08B-05	18~36	± 5	± 800	50
DCW08B-12	18~36	± 12	± 335	60
DCW08B-15	18~36	± 15	± 267	60
DCW08C-05	36~72	± 5	± 800	50
DCW08C-12	36~72	± 12	± 335	60
DCW08C-15	36~72	± 15	± 267	60

10W DC-DC Regulated Single and Dual Output



2"x 1"x 0.44"

- 2:1 wide input range
- 4:1 wide input range(option)
- 1000VDC I/O isolation
- 3000VDC I/O isolation (option)
- Built-in EMI filter
- Protection: Short circuit / Overload
- Cooling by free air convection
- Six-sided shield metal case
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

Mechanism	Pin Configuration												
Unit: mm(inch) Bottom View	<table border="1"> <thead> <tr> <th>Pin No.</th><th>Output</th></tr> </thead> <tbody> <tr> <td>1</td><td>+Vin +Vin</td></tr> <tr> <td>2</td><td>-Vin -Vin</td></tr> <tr> <td>3</td><td>+Vout +Vout</td></tr> <tr> <td>4</td><td>No Pin COM</td></tr> <tr> <td>5</td><td>-Vout -Vout</td></tr> </tbody> </table>	Pin No.	Output	1	+Vin +Vin	2	-Vin -Vin	3	+Vout +Vout	4	No Pin COM	5	-Vout -Vout
Pin No.	Output												
1	+Vin +Vin												
2	-Vin -Vin												
3	+Vout +Vout												
4	No Pin COM												
5	-Vout -Vout												

Voltage set point accuracy ... $\pm 2\%$ (max.)
 Line regulation $\pm 0.3\%$ (max.)
 Load regulation $\pm 0.5\%$ (max.)@10~100% load
 Efficiency 85% (typical)
 Short circuit protection continuous, auto-recovery
 Overload protection 160%~250%, auto-recovery
 I/O isolation voltage 1000VDC (min.)
 I/O isolation resistance 100M Ω (min.)@ 500VDC
 Working temperature -25°C to +60°C (no derating), +71°C@80% load
 Storage temperature -25°C to +105°C
 Temp. Coefficient $\pm 0.03\%$ / °C (max.)
 Case material Six-sided shield metal case
 EMI Compliance to EN55022 Class B,
 FCC part15 Class B

✦ Single Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SKE10A-05	9~18	5	2000	50
SKE10A-12	9~18	12	840	60
SKE10A-15	9~18	15	666	60
SKE10A-24	9~18	24	420	80
SKE10B-05	18~36	5	2000	50
SKE10B-12	18~36	12	840	60
SKE10B-15	18~36	15	666	60
SKE10B-24	18~36	24	420	80
SKE10C-05	36~72	5	2000	50
SKE10C-12	36~72	12	840	60
SKE10C-15	36~72	15	666	60
SKE10C-24	36~72	24	420	80

✦ Dual Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
DKE10A-05	9~18	± 5	± 1000	50
DKE10A-12	9~18	± 12	± 420	60
DKE10A-15	9~18	± 15	± 333	60
DKE10A-24	9~18	± 24	± 210	80
DKE10B-05	18~36	± 5	± 1000	50
DKE10B-12	18~36	± 12	± 420	60
DKE10B-15	18~36	± 15	± 333	60
DKE10B-24	18~36	± 24	± 210	80
DKE10C-05	36~72	± 5	± 1000	50
DKE10C-12	36~72	± 12	± 420	60
DKE10C-15	36~72	± 15	± 333	60
DKE10C-24	36~72	± 24	± 210	80

12W DC-DC Regulated Single and Dual Output



1.25"x 0.8"x 0.48"

- 2:1 wide input range
- 1500VDC I/O isolation
- Built-in remote ON/OFF control
- Built-in EMI filter
- Protection: Short circuit / Overload
- Cooling by free air convection
- Five-sided shield metal case
- 100% full load burn-in test
- Low cost, high reliability
- Modified models available:
output 2.5V / 3.3V
- 2 years warranty

Mechanism	Pin Configuration																
Unit: mm(inch) Bottom View	<table border="1"> <thead> <tr> <th>Pin No.</th><th>Output</th></tr> </thead> <tbody> <tr> <td>1</td><td>R.C R.C</td></tr> <tr> <td>2&3</td><td>-Vin -Vin</td></tr> <tr> <td>9</td><td>NC COM</td></tr> <tr> <td>11</td><td>NC -Vout</td></tr> <tr> <td>14</td><td>+Vout +Vout</td></tr> <tr> <td>16</td><td>-Vout COM</td></tr> <tr> <td>22&23</td><td>+Vin +Vin</td></tr> </tbody> </table>	Pin No.	Output	1	R.C R.C	2&3	-Vin -Vin	9	NC COM	11	NC -Vout	14	+Vout +Vout	16	-Vout COM	22&23	+Vin +Vin
Pin No.	Output																
1	R.C R.C																
2&3	-Vin -Vin																
9	NC COM																
11	NC -Vout																
14	+Vout +Vout																
16	-Vout COM																
22&23	+Vin +Vin																

Voltage set point accuracy ... $\pm 2\%$ (max.)
 Line regulation $\pm 0.5\%$ (max.)
 Load regulation $\pm 0.5\%$ (max.)@20~100% load
 Efficiency 83% (typical)
 Short circuit protection continuous, auto-recovery
 Overload protection 110%~180%, auto-recovery
 I/O isolation voltage 1500VDC (min.)
 I/O isolation resistance 100M Ω (min.)@ 500VDC
 Working temperature -25°C to +60°C (no derating), +71°C@60% load
 Storage temperature -25°C to +105°C
 Temp. Coefficient $\pm 0.03\%$ / °C (max.)
 Case material Five-sided shield metal case
 EMI Compliance to EN55022 Class A,
 FCC part15 Class A

✦ Single Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SCW12A-05	9~18	5	2400	50
SCW12A-12	9~18	12	1000	60
SCW12A-15	9~18	15	800	60
SCW12B-05	18~36	5	2400	50
SCW12B-12	18~36	12	1000	60
SCW12B-15	18~36	15	800	60
SCW12C-05	36~72	5	2400	50
SCW12C-12	36~72	12	1000	60
SCW12C-15	36~72	15	800	60

✦ Dual Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
DCW12A-05	9~18	± 5	± 1200	50
DCW12A-12	9~18	± 12	± 500	60
DCW12A-15	9~18	± 15	± 400	60
DCW12B-05	18~36	± 5	± 1200	50
DCW12B-12	18~36	± 12	± 500	60
DCW12B-15	18~36	± 15	± 400	60
DCW12C-05	36~72	± 5	± 1200	50
DCW12C-12	36~72	± 12	± 500	60
DCW12C-15	36~72	± 15	± 400	60

15W DC-DC Regulated Single and Dual Output



2"x 1"x 0.44"

- 2:1 wide input range
- 4:1 wide input range(option)
- 1000VDC I/O isolation
- 3000VDC I/O isolation (option)
- Built-in EMI filter
- Protection: Short circuit / Overload
- Cooling by free air convection
- Six-sided shield metal case
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

Mechanism	Pin Configuration																				
Unit: mm(inch) 15.3 20.3 15.2 11.27 10.2 5.1 10.1 10.2 5.1 10.2 10.2 10.2 10.2 2.5 2.5 5.8 (0.23) ○ 1 3 ○ ○ 2 4 ○ 5 ○ BOTTOM VIEW	<table><tr><th rowspan="2">Pin No.</th><th colspan="2">Output</th></tr><tr><th>Single</th><th>Dual</th></tr><tr><td>1</td><td>+Vin</td><td>+Vin</td></tr><tr><td>2</td><td>-Vin</td><td>-Vin</td></tr><tr><td>3</td><td>+Vout</td><td>+Vout</td></tr><tr><td>4</td><td>No Pin</td><td>COM</td></tr><tr><td>5</td><td>-Vout</td><td>-Vout</td></tr></table>	Pin No.	Output		Single	Dual	1	+Vin	+Vin	2	-Vin	-Vin	3	+Vout	+Vout	4	No Pin	COM	5	-Vout	-Vout
Pin No.	Output																				
	Single	Dual																			
1	+Vin	+Vin																			
2	-Vin	-Vin																			
3	+Vout	+Vout																			
4	No Pin	COM																			
5	-Vout	-Vout																			

Voltage set point accuracy ... $\pm 2\%$ (max.)
 Line regulation $\pm 0.2\%$ (max.)
 Load regulation $\pm 0.5\%$ (max.)@10~100% load
 Efficiency 82% (typical)
 Short circuit protection continuous, auto-recovery
 Overload protection 110%~250%, auto-recovery
 I/O isolation voltage 1000VDC (min.)
 I/O isolation resistance 100M Ω (min.)@ 500VDC
 Working temperature -25°C to +60°C (no derating), +71°C@80% load
 Storage temperature -25°C to +105°C
 Temp. Coefficient $\pm 0.03\%$ / °C (max.)
 Case material Six-sided shield metal case
 EMI Compliance to EN55022 Class B, FCC part15 Class B

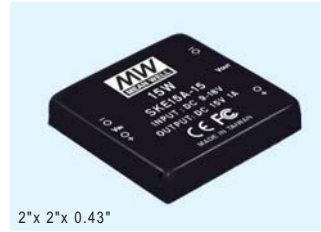
Single Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SKA15A-033	9~18	3.3	3000	50
SKA15A-05	9~18	5	3000	50
SKA15A-12	9~18	12	1250	60
SKA15A-15	9~18	15	1000	60
SKA15B-033	18~36	3.3	3000	50
SKA15B-05	18~36	5	3000	50
SKA15B-12	18~36	12	1250	60
SKA15B-15	18~36	15	1000	60
SKA15C-033	36~72	3.3	3000	50
SKA15C-05	36~72	5	3000	50
SKA15C-12	36~72	12	1250	60
SKA15C-15	36~72	15	1000	60

Dual Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
DKA15A-05	9~18	± 5	± 1500	50
DKA15A-12	9~18	± 12	± 625	60
DKA15A-15	9~18	± 15	± 500	60
DKA15B-05	18~36	± 5	± 1500	50
DKA15B-12	18~36	± 12	± 625	60
DKA15B-15	18~36	± 15	± 500	60
DKA15C-05	36~72	± 5	± 1500	50
DKA15C-12	36~72	± 12	± 625	60
DKA15C-15	36~72	± 15	± 500	60

15W DC-DC Regulated Single and Dual Output



2"x 2"x 0.43"

- 2:1 wide input range
- 4:1 wide input range(option)
- 1000VDC I/O isolation
- 3000VDC I/O isolation(option)
- Built-in EMI filter
- Protections: Short circuit / Overload
- Cooling by free air convection
- Six-sided shield metal case
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

Mechanism	Pin Configuration																				
Unit: mm(inch) Dimensions: 50.8 (2.00), 20.30 (800), 15.2 (598), 5.8 (0.23), 11 (0.43), 5.10 (200), 12.8 (808), 10.20 (400), 10.20 (400), 10.20 (400), 1.0 ϕ +0.2/-0.1 Pins: 1, 2, 3, 4, 5 Label: BOTTOM VIEW	<table><tr><th rowspan="2">Pin No.</th><th colspan="2">Output</th></tr><tr><th>Single</th><th>Dual</th></tr><tr><td>1</td><td>+Vin</td><td>+Vin</td></tr><tr><td>2</td><td>-Vin</td><td>-Vin</td></tr><tr><td>3</td><td>+Vout</td><td>+Vout</td></tr><tr><td>4</td><td>No Pin</td><td>COM</td></tr><tr><td>5</td><td>-Vout</td><td>-Vout</td></tr></table>	Pin No.	Output		Single	Dual	1	+Vin	+Vin	2	-Vin	-Vin	3	+Vout	+Vout	4	No Pin	COM	5	-Vout	-Vout
Pin No.	Output																				
	Single	Dual																			
1	+Vin	+Vin																			
2	-Vin	-Vin																			
3	+Vout	+Vout																			
4	No Pin	COM																			
5	-Vout	-Vout																			

Voltage set point accuracy ... $\pm 2\%$ (max.)
 Line regulation $\pm 0.3\%$ (max.)
 Load regulation $\pm 0.5\%$ (max.)@10~100% load
 Efficiency 85% (typical)
 Short circuit protection continuous, auto-recovery
 Overload protection 160%~250%, auto-recovery
 I/O isolation voltage 1000VDC (min.)
 I/O isolation resistance 100M Ω (min.)@ 500VDC
 Working temperature -25°C to +60°C (no derating), +71°C@80% load
 Storage temperature -25°C to +105°C
 Temp. Coefficient $\pm 0.03\%$ / °C (max.)
 Case material Six-sided shield metal case
 EMI Compliance to EN55022 Class B, FCC part15 Class B

Single Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SKE15A-05	9~18	5	3000	50
SKE15A-12	9~18	12	1250	60
SKE15A-15	9~18	15	1000	60
SKE15A-24	9~18	24	625	80
SKE15B-05	18~36	5	3000	50
SKE15B-12	18~36	12	1250	60
SKE15B-15	18~36	15	1000	60
SKE15B-24	18~36	24	625	80
SKE15C-05	36~72	5	3000	50
SKE15C-12	36~72	12	1250	60
SKE15C-15	36~72	15	1000	60
SKE15C-24	36~72	24	625	80

Dual Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
DKE15A-05	9~18	± 5	± 1500	50
DKE15A-12	9~18	± 12	± 625	60
DKE15A-15	9~18	± 15	± 500	60
DKE15A-24	9~18	± 24	± 313	80
DKE15B-05	18~36	± 5	± 1500	50
DKE15B-12	18~36	± 12	± 625	60
DKE15B-15	18~36	± 15	± 500	60
DKE15B-24	18~36	± 24	± 313	80
DKE15C-05	36~72	± 5	± 1500	50
DKE15C-12	36~72	± 12	± 625	60
DKE15C-15	36~72	± 15	± 500	60
DKE15C-24	36~72	± 24	± 313	80

DC/DC Converter

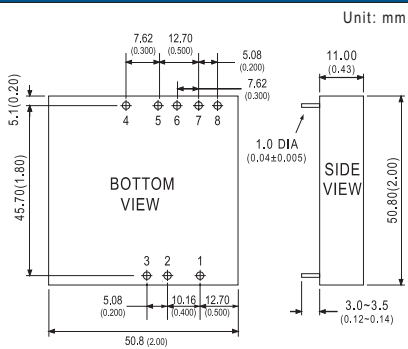


40W DC-DC Regulated Single Output



- 2:1 wide input range
- 1500VDC I/O isolation
- High efficiency up to 92%
- Built-in remote ON/OFF control
- Built-in remote sense
- Built-in EMI filter
- Trimming output ($\pm 10\%$)
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- Compact size
- 100% full load burn-in test
- Low cost, high reliability
- Output 3.3V / 9V models available
- 2 years warranty

Mechanism



Pin Configuration

Pin No.	Output
1	R.C
2	-Vin
3	+Vin
4	-R.S
5	+R.S
6	+Vout
7	-Vout
8	Trim

Voltage set point accuracy ... $\pm 2\%$ (max.)
 Line regulation $\pm 0.5\%$ (max.)
 Load regulation $\pm 0.5\%$ (max.) @10%~full load
 Overload protection 110%~180%, auto-recovery
 Over voltage protection Clamp by TVS Diode
 Efficiency 92% (typical)
 I/O isolation voltage 1500VDC(min.)
 I/O isolation resistance 100M Ω (min.) @500VDC
 Working temperature -40°C to +80°C(refer to output derating curve)
 Storage temperature -25°C to 85°C
 Case Material Six-sided shield metal case
 EMI Compliance to EN55022 class A,
 FCC part15 classA

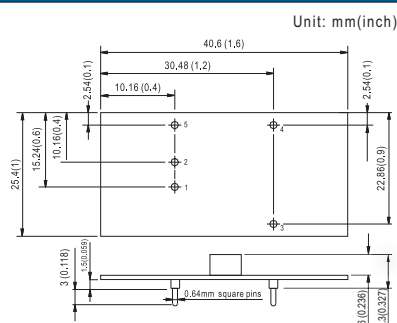
Model No.	Input (VDC)	Output (VDC)	Current (A)	R&N (mVp-p)
SKA40A-05	9~18	5	7.00	60
SKA40A-12	9~18	12	3.33	80
SKA40A-15	9~18	15	2.67	100
SKA40B-05	18~36	5	7.00	60
SKA40B-12	18~36	12	3.33	80
SKA40B-15	18~36	15	2.67	100
SKA40C-05	36~75	5	7.00	60
SKA40C-12	36~75	12	3.33	80
SKA40C-15	36~75	15	2.67	100

5W DC-DC Regulated Single Output



- 4:1 wide input range
- 1000VDC I/O isolation
- Built-in EMI filter
- Protections: Short circuit / Overload / Over voltage
- Built-in remote ON/OFF control
- Cooling by free air convection
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

Mechanism



Pin Configuration

Pin No.	Output
1	+INPUT
2	-INPUT(GND)
3	+Vout
4	-Vout
5	CONTROL

Voltage set point accuracy ... $\pm 2.0\%$ (max.)
 Line regulation $\pm 1.0\%$ (max.)
 Load regulation $\pm 1\sim 2\%$ (max.)@10%~full load
 Efficiency 85% (typical)
 Short circuit protection continuous, auto-recovery
 Overload protection over 105% power limiting, auto-recovery
 I/O isolation voltage 1000VDC
 I/O isolation resistance 100M Ω (min.)@ 500VDC, 25°C 70% RH
 Working temperature -25°C to +70°C (refer to output derating curve)
 Storage temperature -40°C to +85°C
 Temp. Coefficient $\pm 0.03\%$ / °C (0~60°C)
 Safety standards IEC60950-1 CB approved by TUV
 EMC standards EN55022 Class B, EN61000-4-2,3,4,5,6,8
 Packing 0.007kg ; 700pcs / 5.9kg / 0.97CUFT

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
NSD05-12S3	9.2~36	3.3	1200	75
NSD05-12S5	9.2~36	5	1000	75
NSD05-12S12	9.2~36	12	420	75
NSD05-12S15	9.2~36	15	330	75
NSD05-48S3	18~72	3.3	1200	75
NSD05-48S5	18~72	5	1000	75
NSD05-48S12	18~72	12	420	75
NSD05-48S15	18~72	15	330	75



We provide specification, drawing, test report and more information, please visit our website —

<http://www.meanwell.com>



48hrs delivery—

We keep enough stock for 95% of standard models at our 2400m² warehouse. We can arrange prompt delivery within 48hrs.

10W DC-DC Regulated Single and Dual Output



2"x 1"x 0.394"

- 4:1 wide input range
- 1000VDC I/O isolation
- Protections: Short circuit / Overload / Over voltage
- Built-in EMI filter
- Built-in remote ON/OFF control
- Cooling by free air convection
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

Mechanism

Unit: mm(inch)

The image shows a mechanical drawing of a 10W DC-DC converter module. The top view is a rectangle with overall dimensions of 25.4 (1) inches by 22.86 (0.9) inches. It features six pins labeled 1 through 6. Pin 1 is a 1.524 (0.6) inch wide pin on the left. Pin 2 is a 1.016 (0.4) inch wide pin on the left. Pin 3 is a 1.27 (0.5) inch wide pin on the right. Pin 4 is a 1.27 (0.5) inch wide pin on the right. Pin 5 is a 1.27 (0.5) inch wide pin on the right. Pin 6 is a 1.27 (0.5) inch wide pin on the right. The bottom view shows the module's profile with a height of 10 (0.394) inches. The top surface has a 3.81 (0.15) inch wide section. The bottom surface has a 1.02 (0.04) inch wide section. The distance between the center of pin 1 and the center of pin 2 is 15.24 (0.6) inches. The distance between the center of pin 2 and the center of pin 3 is 35.56 (1.4) inches. The distance between the center of pin 3 and the center of pin 4 is 50.8 (2) inches. The distance between the center of pin 4 and the center of pin 5 is 15.24 (0.6) inches. The distance between the center of pin 5 and the center of pin 6 is 15.24 (0.6) inches. The distance between the center of pin 6 and the center of pin 1 is 15.24 (0.6) inches. The distance between the center of pin 1 and the center of pin 3 is 30.48 (1.2) inches. The distance between the center of pin 2 and the center of pin 4 is 30.48 (1.2) inches. The distance between the center of pin 3 and the center of pin 5 is 30.48 (1.2) inches. The distance between the center of pin 4 and the center of pin 6 is 30.48 (1.2) inches. The distance between the center of pin 5 and the center of pin 1 is 30.48 (1.2) inches. The distance between the center of pin 6 and the center of pin 2 is 30.48 (1.2) inches.

Pin Configuration

Pin No.	Output	
	Single	Dual
1	+INPUT	+INPUT
2	-INPUT (GND)	-INPUT (GND)
3	+OUT	+OUT
4	NC	COMMON
5	-OUT	-OUT
6	CONTROL	CONTROL

Voltage set point accuracy $\pm 2\%$ (max.)
 Line regulation $\pm 1\%$ @10%~full load
 Load regulation $\pm 1\sim\pm 3\%$ @10%~full load
 Efficiency 80% (typical)
 Short circuit protection continuous, auto-recovery
 Over voltage protection clamp@115~150V
 Shutdown idle current 20mA
 I/O isolation voltage 1000VDC
 I/O isolation resistance 100M Ω (min.) @500VDC
 Working temperature -25~+70°C
 Storage temperature -40~+85°C
 Temp. coefficient $\pm 0.03\%$ / °C(0~60°C)
 Safety standards UL60950-1 approved
 EMC standards EN55022 Class B, EN61000-4-2,3,4,6,8
 Packing 0.02kg ; 300pcs / 7.0kg / 0.97CUFT

◆ Single Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
NSD10-12S3	9.8~36	3.3	2500	75
NSD10-12S5	9.8~36	5	2000	75
NSD10-12S9	9.8~36	9	1100	75
NSD10-12S12	9.8~36	12	830	75
NSD10-12S15	9.8~36	15	670	75
NSD10-48S3	22~72	3.3	2500	75
NSD10-48S5	22~72	5	2000	75
NSD10-48S9	22~72	9	1100	75
NSD10-48S12	22~72	12	830	75
NSD10-48S15	22~72	15	670	75

◆ Dual Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
NSD10-12D5	9.8~36	± 5	$\pm 50\sim 1000$	75
NSD10-12D12	9.8~36	± 12	$\pm 20\sim 420$	75
NSD10-12D15	9.8~36	± 15	$\pm 16\sim 330$	75
NSD10-48D5	22~72	± 5	$\pm 50\sim 1000$	75
NSD10-48D12	22~72	± 12	$\pm 20\sim 420$	75
NSD10-48D15	22~72	± 15	$\pm 16\sim 330$	75

15W DC-DC Regulated Single and Dual Output



2"x 1.5"x 0.387"

- 4:1 wide input range
- 1500VDC I/O isolation
- Protections: Short circuit / Overload / Over voltage
- Built-in EMI filter
- Output voltage trimming function
- Built-in remote ON/OFF control
- Cooling by free air convection
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

Mechanism	Pin Configuration
Unit: mm(inch) 50.8(2) 13.33 (0.525) 5.08 (0.2) 10.16 (0.4) 6.35 (0.25) 38.1(+/-5) 45.72(1.8) 3.81 (0.15) 5.08 (0.2) 10.16 (0.4	

Voltage set point accuracy $\pm 2\%$ (max.)
 Line regulation $\pm 1\%$ @10%~full load
 Load regulation $\pm 1\sim\pm 3\%$ @10%~full load
 Efficiency 85% (typical)
 Short circuit protection continuous, auto-recovery
 Over voltage protection clamp@115~150V
 Shutdown idle current 20mA
 I/O isolation voltage 1500VDC
 I/O isolation resistance 100M Ω (min.) @500VDC
 Working temperature -25~+70°C
 Storage temperature -40~+85°C
 Temp. coefficient $\pm 0.03\%$ / °C(0~50°C)
 Safety standards UL60950-1 approved
 EMC standards EN55022 Class B, EN61000-4-2,3,4,6,8
 Packing 0.03kg ; 180pcs / 6.4kg / 0.97CUFT

◆ Single Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
NSD15-12S3	9.4~36	3.3	3750	100
NSD15-12S5	9.4~36	5	3000	75
NSD15-12S12	9.4~36	12	1250	75
NSD15-12S15	9.4~36	15	1000	75
NSD15-48S3	18~72	3.3	3750	100
NSD15-48S5	18~72	5	3000	75
NSD15-48S12	18~72	12	1250	75
NSD15-48S15	18~72	15	1000	75

◆ Dual Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
NSD15-12D5	9.4~36	± 5	$\pm 70\sim 1500$	100
NSD15-12D12	9.4~36	± 12	$\pm 30\sim 620$	100
NSD15-12D15	9.4~36	± 15	$\pm 20\sim 500$	100
NSD15-48D5	18~72	± 5	$\pm 70\sim 1500$	100
NSD15-48D12	18~72	± 12	$\pm 30\sim 620$	100
NSD15-48D15	18~72	± 15	$\pm 20\sim 500$	100

DC/DC Converter

12.5~60W Single Output Non-isolated DC-DC Converter

- Non-isolated, fix-frequency at 250kHz
- 3:1 wide input range for 5~15V output
- ±2% output voltage accuracy
- High efficiency up to 96%
- Built-in remote ON/OFF control
- Compact size
- Cooling by free air convection
- Economical open frame design
- Protections: Short circuit / Overload / Over voltage
- 2 years warranty



◆ NID30 Series

Mechanism	Pin Configuration												
Unit: mm(inch) 50.8(2.00) 10.7(0.421)max. 8(0.315) 13(0.512) 3.6(0.142) 1 2 3 4 5 6 7 8 9 10 11 0.64(0.025) 10.2(0.402) 25.4(1.00) 2.55(0.100) 1.3(0.051) 5.6(0.22) SIDE VIEW	<table> <tr> <th>Pin No.</th><th>Output</th></tr> <tr> <td>1,2,3,4</td><td>+Vout</td></tr> <tr> <td>5,6</td><td>COM</td></tr> <tr> <td>7,8</td><td>+Vin</td></tr> <tr> <td>9,10</td><td>N.C.</td></tr> <tr> <td>11</td><td>R.C.</td></tr> </table>	Pin No.	Output	1,2,3,4	+Vout	5,6	COM	7,8	+Vin	9,10	N.C.	11	R.C.
Pin No.	Output												
1,2,3,4	+Vout												
5,6	COM												
7,8	+Vin												
9,10	N.C.												
11	R.C.												

◆ NID60 Series

Mechanism	Pin Configuration												
Unit: mm(inch) 50.8(2.00) 10.7(0.421)max. 8(0.315) 26(1.024) 3.6(0.142) 1 2 3 4 5 6 7 8 9 10 11 0.64(0.025) 10.2(0.402) 25.4(1.00) 2.55(0.100) 1.3(0.051) 5.6(0.22) SIDE VIEW	<table> <tr> <th>Pin No.</th><th>Output</th></tr> <tr> <td>1,2,3,4</td><td>+Vout</td></tr> <tr> <td>5,6</td><td>COM</td></tr> <tr> <td>7,8</td><td>+Vin</td></tr> <tr> <td>9,10</td><td>N.C.</td></tr> <tr> <td>11</td><td>R.C.</td></tr> </table>	Pin No.	Output	1,2,3,4	+Vout	5,6	COM	7,8	+Vin	9,10	N.C.	11	R.C.
Pin No.	Output												
1,2,3,4	+Vout												
5,6	COM												
7,8	+Vin												
9,10	N.C.												
11	R.C.												

Voltage set point accuracy ±2% (max.)

Line regulation ±0.5%

Load regulation ±0.5% @ 10~100% load

Efficiency 96% (typical)

Short circuit protection Continuous, auto-recovery

Overload protection 120%~300%, auto-recovery

Over voltage protection Clamp by TVS Diode

Working temperature -25~+65°C (refer to derating curve)

Storage temperature -25~+105°C

Temp. coefficient ±0.03% / °C(0~50°C)

◆ NID30 Series

Model No.	Input	Output	R&N	Effi
NID30S24-05	20~53V	5V, 0~2.50A	100mV	91%
NID30S24-12	20~53V	12V, 0~2.50A	120mV	95%
NID30S24-15	20~53V	15V, 0~2.00A	150mV	96%
NID30S48-24	30~53V	24V, 0~1.25A	200mV	93%

◆ NID60 Series

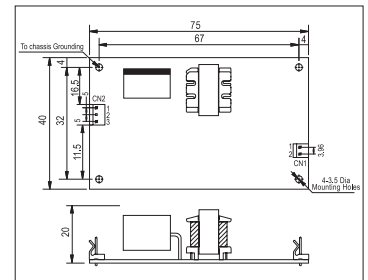
Model No.	Input	Output	R&N	Effi
NID60S24-05	20~53V	5V, 0~4.0A	100mV	90%
NID60S24-12	20~53V	12V, 0~4.0A	120mV	95%
NID60S24-15	20~53V	15V, 0~4.0A	150mV	96%
NID60S48-24	30~53V	24V, 0~2.5A	200mV	95%

5W Single Output DC-DC Converter

- 2:1 wide input range
- 2000VAC I/O isolation
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Built-in EMI filter, low ripple noise
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty



75x 40x 20 mm



Line and load regulation ... ±1.0% (max.)

Overload protection >105% fold back current limiting, auto-recovery

Over voltage protection 115%~135% rated output voltage

Withstand voltage I/P-O/P: 2kVAC, I/P-FG: 1.5kVAC, 1 minute

Isolation resistance 100MΩ(min.) @500VDC

Working temperature -10°C to +60°C (refer to output derating curve)

Safety standards Meet LVD

EMC standards EN55022 class B, EN61000-4-2,3,4,6,8, ENV50204

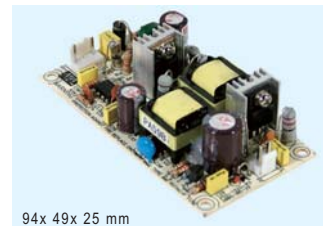
Connection 3P, 2P / 3.96mm pitch, Molex 5285-03, 5273-02

Packing 0.05kg ; 120pcs / 6.25kg / 1.0CUFT

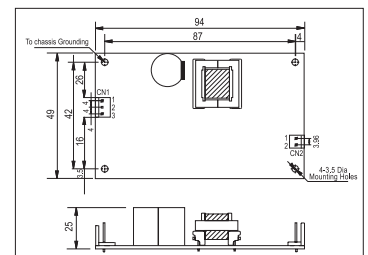
Model No.	Input	Output	R&N	Effi.
PSD-05-5	36~72V	5V, 0~1.0A	50mV	75%
PSD-05-12	36~72V	12V, 0~0.45A	100mV	78%
PSD-05-24	36~72V	24V, 0~0.22A	150mV	78%

15W Single Output DC-DC Converter

- 2:1 wide input range
- 2000VAC I/O isolation
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Built-in EMI filter, low ripple noise
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty



94x 49x 25 mm



Line and load regulation ... ±1.0% (max.)

Overload protection 105%~150% hiccup mode, auto-recovery

Over voltage protection 115%~135% rated output voltage

Withstand voltage I/P-O/P: 2kVAC, I/P-FG: 1.5kVAC, 1 minute

Isolation resistance 100MΩ(min.) @500VDC

Working temperature -10°C to +60°C (refer to output derating curve)

Safety standards Meet LVD

EMC standards EN55022 class B, EN61000-4-2,3,4,6,8, ENV50204

Connection 3P, 2P / 3.96mm pitch, JST B3P/B2P-VH

Packing 0.081kg ; 120pcs / 10.72kg

Model No.	Input	Output	R&N	Effi.
PSD-15A-5	9.2~18V	5V, 0~3.0A	50mV	74%
PSD-15A-12	9.2~18V	12V, 0~1.25A	100mV	67%
PSD-15A-24	9.2~18V	24V, 0~0.6A	100mV	72%
PSD-15B-5	18~36V	5V, 0~3.0A	50mV	78%
PSD-15B-12	18~36V	12V, 0~1.25A	100mV	78%
PSD-15B-24	18~36V	24V, 0~0.6A	100mV	78%
PSD-15C-5	36~72V	5V, 0~3.0A	50mV	78%
PSD-15C-12	36~72V	12V, 0~1.25A	100mV	78%
PSD-15C-24	36~72V	24V, 0~0.6A	100mV	79%

30W Single Output DC-DC Converter

CE



- 2:1 wide input range
- Protections: Short circuit / Overload / Over voltage / Reverse polarity
- 1500VAC I/O isolation
- Cooling by free air convection
- Built-in EMI filter, low ripple noise
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

DC adjustment range 5V: 4.5~5.5V, 12V: 11~13.5V, 24V: 22~26V
 Line and load regulation .. $\pm 1\%$ (max.)
 Overload protection 105%~150% fold back current limiting, auto-recovery
 Over voltage protection ... 115%~135% rated output voltage
 Withstand voltage I/P-O/P: 1.5kVAC, I/P-FG: 1.5kVAC, 1 minute
 Working temperature -20~60°C (refer to output derating curve)
 EMC standards EN55022 class B, EN61000-4-2,3,4,6,8, EN55024
 Connection 3P, 4P / 3.96mm pitch, JST B3P/B4P-VH-B

Model No.	Input	Output	R&N	Effi.
PSD-30A-05	9~18V	5V, 0~5.0A	100mV	77%
PSD-30A-12	9~18V	12V, 0~2.5A	120mV	77%
PSD-30A-24	9~18V	24V, 0~1.25A	150mV	78%
PSD-30B-05	18~36V	5V, 0~5.0A	100mV	79%
PSD-30B-12	18~36V	12V, 0~2.5A	120mV	80%
PSD-30B-24	18~36V	24V, 0~1.25A	150mV	83%
PSD-30C-05	36~72V	5V, 0~5.0A	100mV	80%
PSD-30C-12	36~72V	12V, 0~2.5A	120mV	82%
PSD-30C-24	36~72V	24V, 0~1.25A	150mV	83%

45W Single Output DC-DC Converter

CB CE



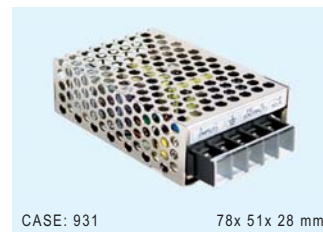
- 2:1 wide input range
- Protections: Short circuit / Overload / Over voltage / Reverse polarity
- Cooling by free air convection
- Built-in EMI filter, low ripple noise
- 100% full load burn-in test
- Fixed switching frequency at 96kHz
- Low cost
- 2 years warranty

DC adjustment range 5V: 4.5~5.5V, 12V: 10.8~13.2V, 24V: 21.6~26.4V
 Line and load regulation $\pm 1\%$ (max.)
 Overload protection 105%~160% shut down, re-power on to recover
 Over voltage protection 115%~135% rated output voltage
 Withstand voltage I/P-O/P: 1.5kVAC, I/P-FG: 1.5kVAC, 1 minute
 Working temperature -10~60°C (refer to output derating curve)
 Safety standards EN60950-1 CB approved by TUV
 EMC standards EN55022 class B, EN61000-4-2,3,4,6,8, EN55024
 Connection 2P, 6P / 3.96mm pitch, Molex 5277-02, 5273-06
 Packing 0.19kg ; 72pcs / 15.6kg / 1.35CUFT

Model No.	Input	Output	R&N	Effi.
PSD-45A-05	9.2~18V	5V, 0~6.0A	100mV	74%
PSD-45A-12	9.2~18V	12V, 0~2.5A	120mV	79%
PSD-45A-24	9.2~18V	24V, 0~1.25A	150mV	80%
PSD-45B-05	18~36V	5V, 0~9.0A	100mV	77%
PSD-45B-12	18~36V	12V, 0~3.75A	120mV	82%
PSD-45B-24	18~36V	24V, 0~1.875A	150mV	85%
PSD-45C-05	37~72V	5V, 0~9.0A	100mV	80%
PSD-45C-12	37~72V	12V, 0~3.75A	120mV	83%
PSD-45C-24	37~72V	24V, 0~1.875A	150mV	86%

15W Single Output DC-DC Converter

CE



- 2:1 wide input range
- 2000VAC I/O isolation
- Cooling by free air convection
- Protections: Short circuit / Over load / Over voltage
- Built-in EMI filter, low ripple noise
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

DC adjustment range 5V: 4.75~5.5V, 12V: 10.8~13.2V, 24V: 21.6~26.4V
 Line and load regulation $\pm 0.5\%$ (max.)
 Overload protection 105%~160% hiccup mode, auto-recovery
 Over voltage protection 115%~135% rated output voltage
 Withstand voltage I/P-O/P: 2kVAC, I/P-FG: 1.5kVAC, 1 minute
 Working temperature 0~40°C@100%, -10°C@80%, 60°C@60% load
 Safety standard Meet LVD
 EMC standards EN55022 class B, EN61000-4-2,3,4,6,8, ENV50204
 Packing 0.18kg ; 60pcs / 11.8kg

Model No.	Input	Output	R&N	Effi.
SD-15A-5	9.2~18V	5V, 0~3.0A	100mV	68%
SD-15A-12	9.2~18V	12V, 0~1.25A	120mV	72%
SD-15A-24	9.2~18V	24V, 0~0.625A	150mV	70%
SD-15B-5	18~36V	5V, 0~3.0A	100mV	76%
SD-15B-12	18~36V	12V, 0~1.25A	120mV	76%
SD-15B-24	18~36V	24V, 0~0.625A	150mV	77%
SD-15C-5	36~72V	5V, 0~3.0A	100mV	75%
SD-15C-12	36~72V	12V, 0~1.25A	120mV	79%
SD-15C-24	36~72V	24V, 0~0.625A	150mV	78%

25W Single Output DC-DC Converter

CE



- 2:1 wide input range
- 1500VAC I/O isolation
- Protections: Short circuit / Overload / Over voltage
- Built-in EMI filter, low ripple noise
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

DC adjustment range 5V: 4.5~5.5V, 12V: 11~16V, 24V: 23~30V
 Line and load regulation $\pm 0.5\%$ (max.)
 Overload protection 105%~150% fold back current limiting, auto-recovery
 Over voltage protection 115%~165% rated output voltage
 Withstand voltage I/P-O/P: 2kVAC, I/P-FG: 1.5kVAC, 1 minute
 Isolation resistance 100M Ω (min.) @500VDC
 Working temperature -10°C to +60°C (refer to output derating curve)
 Safety standards Meet LVD
 EMC standards EN55022 class B, EN61000-4-2,3,4,6,8, ENV50204
 Packing 0.38kg ; 45pcs / 17.8kg / 0.9CUFT

Model No.	Input	Output	R&N	Effi.
SD-25A-5	9.2~18V	5V, 0~5.0A	100mV	71%
SD-25A-12	9.2~18V	12V, 0~2.1A	120mV	72%
SD-25A-24	9.2~18V	24V, 0~1.1A	150mV	75%
SD-25B-5	19~36V	5V, 0~5.0A	100mV	72%
SD-25B-12	19~36V	12V, 0~2.1A	120mV	75%
SD-25B-24	19~36V	24V, 0~1.1A	150mV	78%
SD-25C-5	36~72V	5V, 0~5.0A	100mV	74%
SD-25C-12	36~72V	12V, 0~2.1A	120mV	78%
SD-25C-24	36~72V	24V, 0~1.1A	150mV	81%

50W Single Output DC-DC Converter



CASE: 901

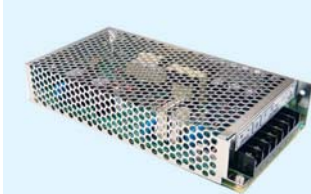
159x 97x 38 mm

- 2:1 wide input range
- 1500VAC I/O isolation
- Protections: Short circuit / Over load / Over voltage
- Built-in EMI filter, low ripple noise
- Cooling by free air convection
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

DC adjustment range 5V: 4.5~5.5V, 12V: 11~16V, 24V: 23~30V
 Line and load regulation $\pm 0.5\%$ (max.)
 Overload protection 105%~150% fold back current limiting, auto-recovery
 Over voltage protection 115%~165% rated output voltage
 Withstand voltage I/P-O/P: 1.5kVAC, I/P-FG: 1.5kVAC, 1 minute
 Isolation resistance 100M Ω (min.) @500VDC
 Working temperature -10°C to +60°C (refer to output derating curve)
 Safety standard Meet LVD
 EMC standards EN55022 class B, EN61000-4-2,3,4,6,8, ENV50204
 Packing 0.53kg ; 24pcs / 12.7kg / 0.75CUFT

Model No.	Input	Output	R&N	Effi.
SD-50A-5	9.2~18V	5V, 0~10A	100mV	70%
SD-50A-12	9.2~18V	12V, 0~4.2A	120mV	72%
SD-50A-24	9.2~18V	24V, 0~2.1A	150mV	74%
SD-50B-5	19~36V	5V, 0~10A	100mV	73%
SD-50B-12	19~36V	12V, 0~4.2A	120mV	75%
SD-50B-24	19~36V	24V, 0~2.1A	150mV	80%
SD-50C-5	36~72V	5V, 0~10A	100mV	76%
SD-50C-12	36~72V	12V, 0~4.2A	120mV	78%
SD-50C-24	36~72V	24V, 0~2.1A	150mV	83%

100W Single Output DC-DC Converter



CASE: 902

199x 98x 38 mm

- 2:1 wide input range
- 1500VAC I/O isolation
- Protections: Short circuit / Overload / Over voltage
- Built-in EMI filter, low ripple noise
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

DC adjustment range 5V: 4.5~5.5V, 12V: 11~16V, 24V: 23~30V
 Line regulation $\pm 0.5\%$ (max.)
 Load regulation $\pm 0.5\%$ (max.)
 Overload protection 105%~135% fold back current limiting, auto-recovery
 Over voltage protection 115%~165% rated output voltage
 Withstand voltage I/P-O/P: 1.5kVAC, I/P-FG: 1.5kVAC, 1 minute
 Isolation resistance 100M Ω (min.) @500VDC
 Working temperature -10°C to +60°C (refer to output derating curve)
 Safety standards Meet LVD, EN60950-1 CB approved by TUV (D type only)
 EMC standards EN55022 class B, EN61000-4-2,3,4,6,8, ENV50204
 Packing 0.65kg ; 20pcs / 13.8kg / 0.8CUFT

Model No.	Input	Output	R&N	Effi.
SD-100B-5	19~36V	5V, 0~20A	100mV	74%
SD-100B-12	19~36V	12V, 0~8.5A	120mV	75%
SD-100B-24	19~36V	24V, 0~4.2A	150mV	78%
SD-100C-5	36~72V	5V, 0~20A	100mV	75%
SD-100C-12	36~72V	12V, 0~8.5A	120mV	77%
SD-100C-24	36~72V	24V, 0~4.2A	150mV	81%
SD-100D-5	72~144V	5V, 0~20A	100mV	76%
SD-100D-12	72~144V	12V, 0~8.5A	120mV	80%
SD-100D-24	72~144V	24V, 0~4.2A	150mV	83%

150W Single Output DC-DC Converter



CASE: 906

199x 110x 50 mm

- 2:1 wide input range
- 1500VAC I/O isolation
- Protections: Short circuit / Over load / Over voltage
- Built-in EMI filter, low ripple noise
- Cooling by free air convection
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

DC adjustment range 12V: 11~16V, 24V: 23~30V
 Line regulation $\pm 0.5\%$ (max.)
 Load regulation $\pm 0.5\%$ (max.)
 Overload protection 105%~135% fold back current limiting, auto-recovery
 Over voltage protection 130%~165% rated output voltage
 Withstand voltage I/P-O/P: 1.5kVAC, I/P-FG: 1.5kVAC, 1 minute
 Isolation resistance 100M Ω (min.) @500VDC
 Working temperature -10°C ~ +60°C (refer to output derating curve)
 Safety standards Meet LVD, EN60950-1 CB approved by TUV (D type only)
 EMC standards EN55022 class B, EN61000-4-2,3,4,6,8, ENV50204
 Packing 0.86kg ; 16pcs / 14.5kg / 0.95CUFT

Model No.	Input	Output	R&N	Effi.
SD-150B-12	19~36V	12V, 0~12.5A	120mV	75%
SD-150B-24	19~36V	24V, 0~6.3A	150mV	77%
SD-150C-12	36~72V	12V, 0~12.5A	120mV	77%
SD-150C-24	36~72V	24V, 0~6.3A	150mV	80%
SD-150D-12	72~144V	12V, 0~12.5A	120mV	79%
SD-150D-24	72~144V	24V, 0~6.3A	150mV	82%

200W Single Output DC-DC Converter



CASE: 912B

215x 115x 50 mm

- 2:1 wide input range
- 1500VAC I/O isolation
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Cooling by free air convection
- 100% full load burn-in test
- 2 years warranty

DC adjustment range 5V: 4.5~5.5V, 12V: 11~16V, 24V: 23~30V, 48V: 43~53V
 Voltage tolerance $\pm 2\%$ (max.)
 Overload protection 105%~135% shut off, re-power on to recover
 Over voltage protection 110%~167% rated output voltage
 Withstand voltage I/P-O/P: 1.5kVAC, I/P-FG: 1.5kVAC, 1 minute
 Working temperature -20°C to +60°C (refer to output derating curve)
 Safety standards Meet LVD, EN60950-1 CB approved by TUV (D type only)
 EMC standards EN55022 class B, EN61000-4-2,3,4,6,8, ENV50204
 Packing 1.1kg ; 12pcs / 14.4kg / 0.92CUFT

Model No.	Input	Output	R&N	Effi.
SD-200B-5	19~36V	5V, 0~34.0A	100mV	79%
SD-200B-12	19~36V	12V, 0~16.7A	120mV	82%
SD-200B-24	19~36V	24V, 0~8.40A	150mV	85%
SD-200B-48	19~36V	48V, 0~4.20A	200mV	86%
SD-200C-5	36~72V	5V, 0~40.0A	100mV	81%
SD-200C-12	36~72V	12V, 0~16.7A	120mV	84%
SD-200C-24	36~72V	24V, 0~8.40A	150mV	86%
SD-200C-48	36~72V	48V, 0~4.20A	200mV	86%
SD-200D-5	72~144V	5V, 0~40.0A	100mV	82%
SD-200D-12	72~144V	12V, 0~16.7A	120mV	82%
SD-200D-24	72~144V	24V, 0~8.40A	150mV	84%
SD-200D-48	72~144V	48V, 0~4.20A	200mV	90%

350W Single Output DC-DC Converter

CE



CASE: 912A 215x 115x 50 mm

- 2:1 wide input range
- 1500VAC I/O isolation
- Protections: Short circuit / Over load / Over voltage / Over temp.
- Forced air cooling by built-in DC fan
- 100% full load burn-in test
- 2 years warranty

DC adjustment range 5V: 4.5~5.5V, 12V: 11~16V, 24V: 23~30V, 48V: 43~53V

Voltage tolerance $\pm 2\%$ (max.)

Overload protection 105%~135% shut off, re-power on to recover

Over voltage protection 110%~167% rated output voltage

Withstand voltage I/P-O/P: 1.5kVAC, I/P-FG: 1.5kVAC, 1 minute

Working temperature -20°C ~ +60°C (refer to output derating curve)

Safety standards Meet LVD, EN60950-1 CB approved by TUV (D type only)

EMC standards EN55022 class B, EN61000-4-2,3,4,6,8, ENV50204

Packing 1.1kg ; 12pcs / 14.4kg / 0.92CUFT

Model No.	Input	Output	R&N	Effi.
SD-350B-5	19~36V	5V, 0~57.0A	100mV	74%
SD-350B-12	19~36V	12V, 0~27.5A	120mV	80%
SD-350B-24	19~36V	24V, 0~14.6A	150mV	80%
SD-350B-48	19~36V	48V, 0~7.30A	200mV	84%
SD-350C-5	36~72V	5V, 0~60.0A	100mV	76%
SD-350C-12	36~72V	12V, 0~27.5A	120mV	81%
SD-350C-24	36~72V	24V, 0~14.6A	150mV	81%
SD-350C-48	36~72V	48V, 0~7.30A	200mV	82%
SD-350D-5	72~144V	5V, 0~60.0A	100mV	78%
SD-350D-12	72~144V	12V, 0~29.2A	120mV	83%
SD-350D-24	72~144V	24V, 0~14.6A	150mV	87%
SD-350D-48	72~144V	48V, 0~7.30A	200mV	89%

500W Single Output DC-DC Converter

CBCE



CASE: 912A 215x 115x 50 mm

- 4:1 & 2:1 DC input range
- DC input active surge current limiting
- Protections: Short circuit / Overload / Over voltage / Over temp. / Input polarity
- 2000VAC I/O Isolation
- Forced air cooling by built-in DC fan with fan speed control function
- Output OK signal
- Built-in remote ON-OFF control
- Built-in remote sense function
- 3 years warranty

DC adjustment range 12V: 11~15V, 24V: 23~30V, 48V: 46~60V

Line regulation $\pm 0.5\%$ (max.)

Load regulation $\pm 0.5\%$ (max.)

Overload protection 105%~125% constant current limiting, shut off after 5 sec., AC recycle to re-start

Over voltage protection 130%~160% rated output voltage

Withstand voltage I/P-O/P: 2kV, I/P-FG: 1.5kV, 1 minute

Isolation resistance 100M Ω (min.) @500VDC

Working temperature -20°C ~ +60°C (refer to output derating curve)

Safety standards IEC60950-1 CB approved by TUV

EMC standards EN55022 class B, EN61000-4-2,3,4,6,8, ENV50204

Packing 1.15kg ; 12pcs / 14.8kg / 0.92CUFT

Model No.	Input	Output	R&N	Effi.
SD-500L-12	19~72V	12V, 0~40A	150mV	86%
SD-500L-24	19~72V	24V, 0~21A	150mV	88%
SD-500L-48	19~72V	48V, 0~10.5A	150mV	89%
SD-500H-12	72~144V	12V, 0~40A	150mV	87%
SD-500H-24	72~144V	24V, 0~21A	150mV	89%
SD-500H-48	72~144V	48V, 0~10.5A	150mV	90%

1000W Single Output DC-DC Converter

CBCE



CASE: 952B 295x 127x 41 mm

- 4:1 & 2:1 wide input range
- 2000VAC I/O Isolation
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Forced air cooling by built-in DC fan
- High power density 10.7W/inch³
- 1U low profile 41mm
- Output OK signal
- 12V / 0.25A auxiliary output
- Built-in remote ON/OFF control
- Built-in remote sense function
- 3 years warranty

DC adjustment range 12V: 11~15V, 24V: 23~30V, 48V: 46~60V

Line regulation $\pm 0.5\%$ (max.)

Load regulation $\pm 0.5\%$ (max.)

Overload protection 105%~125% constant current limiting, shut off after 5 sec., AC recycle to re-start

Over voltage protection 130%~160% rated output voltage

Withstand voltage I/P-O/P: 2kV, I/P-FG: 1.5kV, 1 minute

Isolation resistance 100M Ω (min.) @500VDC

Working temperature -20°C ~ +60°C (refer to output derating curve)

Safety standards IEC60950-1 CB approved by TUV

EMC standards EN55022 class B, EN61000-4-2,3,4,6,8, ENV50204

Packing 1.94kg ; 6pcs / 12.6kg / 0.99CUFT

Model No.	Input	Output	R&N	Effi.
SD-1000L-12	19~72V	12V, 0~60A	150mV	84%
SD-1000L-24	19~72V	24V, 0~40A	150mV	88%
SD-1000L-48	19~72V	48V, 0~21A	150mV	90%
SD-1000H-12	72~144V	12V, 0~60A	150mV	85%
SD-1000H-24	72~144V	24V, 0~40A	150mV	89%
SD-1000H-48	72~144V	48V, 0~21A	150mV	92%

For DC/DC converters, derating may be needed under low input voltage, please check the specification sheet for details.

100W Railway DC-DC Converter

Under Development



- Wide input range:
12V (9~18V) / 24V (14.4~33.6V) / 48V (28.8~67.2V) / 96V or 110V (57.6~154V)
- Standard output voltage: 5V / 12V / 24V
- 4000VDC I/O isolation
- Fully encapsulated
- Cooling by free air convection
- Protections: OLP / OVP / Reverse polarity / Low dc input voltage alarm
- 5G vibration
- High efficiency up to 90%
- LED indicator for power on
- Dimension(LxWxH): 118x 98x 39mm
- 3 years warranty



Features

- High frequency design
- Input protections:
Reverse polarity /
Over and under voltage /
Battery low alarm and shutdown
- Output protections:
Short circuit / Overload / Over temp.
- With power ON/OFF switch and LED indicator
- Built-in remote ON/OFF control for 1000~2500W (optional)
- Built-in USB interface and without fan for 100W
- Input and output fully isolation
- Low power consumption (standby)
- LVD meet EN60950-1 and e13 mark
- EMC meet EN61000-4-2,3, EN55022
- 1 year warranty

Output Socket (option)

			◀Please consult Mean Well for other kinds of optional output socket.
TYPE-2	TYPE-3	TYPE-4	
USA	EUROPE	UNIVERSAL	

General Specification (Please refer to www.meanwell.com for detail spec.)



Model Name	A301	A302
DC input rated voltage	12.5VDC	25.0VDC
AC output voltage / Frequency	110VAC(rms) / 60Hz or 230VAC(rms) / 50Hz	
Max. output power	100W, 150W, 300W, 600W, 1000W, 1500W, 2500W	
USB output power	5Vdc / 500mA (100W only)	
AC output regulation	±10% of rated output voltage	
Bat. low alarm	10±0.5VDC	20.5±1.0VDC
Bat. low shut down	9.5±0.5VDC	19.5±1.0VDC
I/P over voltage protection	15~17VDC	30~32VDC
Working temperature	0~30°C (0~25°C for 2500W)	
LVD	Compliance to EN60950-1	
EMC	Compliance to EN55014-1, EN61000-3-2,3, EN61000-4-2,4,5,6,11	

100W

Model Name	Continue power	Input VDC	Output VAC / Hz	Output socket	Effi.
A301-100-F3	100W	10-15	230 / 50	TYPE-3	90%
A302-100-F3	100W	21-30	230 / 50	TYPE-3	90%

150W

Model Name	Continue power	Input VDC	Output VAC / Hz	Output socket	Effi.
A301-150-B2	150W	10-15	110 / 60	TYPE-2	78%
A301-150-F3	150W	10-15	230 / 50	TYPE-3	78%
A302-150-B2	150W	21-30	110 / 60	TYPE-2	82%
A302-150-F3	150W	21-30	230 / 50	TYPE-3	82%

300W

Model Name	Continue power	Input VDC	Output VAC / Hz	Output socket	Effi.
A301-300-B2	300W	10-15	110 / 60	TYPE-2	82%
A301-300-F3	300W	10-15	230 / 50	TYPE-3	82%
A302-300-B2	300W	21-30	110 / 60	TYPE-2	85%
A302-300-F3	300W	21-30	230 / 50	TYPE-3	85%

600W

Model Name	Continue power	Input VDC	Output VAC / Hz	Output socket	Effi.
A301-600-B2	600W	10-15	110 / 60	TYPE-2	82%
A301-600-F3	600W	10-15	230 / 50	TYPE-3	82%
A302-600-B2	600W	21-30	110 / 60	TYPE-2	85%
A302-600-F3	600W	21-30	230 / 50	TYPE-3	85%

1000W

Model Name	Continue power	Input VDC	Output VAC / Hz	Output socket	Effi.
A301-1K0-B2	1000W	10-15	110 / 60	TYPE-2	82%
A301-1K0-F3	1000W	10-15	230 / 50	TYPE-3	82%
A302-1K0-B2	1000W	21-30	110 / 60	TYPE-2	85%
A302-1K0-F3	1000W	21-30	230 / 50	TYPE-3	85%

1500W

Model Name	Continue power	Input VDC	Output VAC / Hz	Output socket	Effi.
A301-1K7-B2	1500W	10-15	110 / 60	TYPE-2	82%
A301-1K7-F3	1500W	10-15	230 / 50	TYPE-3	82%
A302-1K7-B2	1500W	21-30	110 / 60	TYPE-2	85%
A302-1K7-F3	1500W	21-30	230 / 50	TYPE-3	85%

2500W

Model Name	Continue power	Input VDC	Output VAC / Hz	Output socket	Effi.
A301-2K5-B4	2500W	10-15	110 / 60	TYPE-4	82%
A301-2K5-F3	2500W	10-15	230 / 50	TYPE-3	82%
A302-2K5-B4	2500W	21-30	110 / 60	TYPE-4	85%
A302-2K5-F3	2500W	21-30	230 / 50	TYPE-3	85%



▲ TS-200 205x 158x 59 mm



▲ TS-400 205x 158x 67 mm



▲ TS-700 295x 184x 70 mm

Features

- True sine wave output (THD<3%)
- 2 times high surge power for motor related application
- Advanced digital control by microprocessor
- Output voltage / frequency adjustable
- High efficiency up to 91%
- Standby saving mode to conserve energy (TS-700)
- Built-in fan ON/OFF control function (TS-400/700)
- Fanless design, cooling by free air convection (TS-200)
- Front panel indicator for load / battery / operation status
- High frequency design
- Input protections:
Bat. low alarm / Bat. low shutdown / reverse polarity / over voltage
- Output protections:
Short circuit / Overload / Over temperature
- Applications:
Home appliance, power tools, office and portable equipment, vehicle and yacht...etc.
- 3 years warranty



General Specification (Please refer to www.meanwell.com for detail spec.)

Model Name	TS-200	TS-400	TS-700
Rated output power	200W	400W	700W
Maximum output power	230W for 3 minutes; 300W for 10 sec.	460W for 3 minutes; 600W for 10 sec.	800W for 3 minutes; 1050W for 10 sec.
Output surge rating (30 cycles.)	400W	800W	1400W
DC input rated voltage	12VDC, 24VDC or 48VDC		
AC output voltage	100 / 110 / 115 / 120VAC; 200 / 220 / 230 / 240VAC selectable by setting button		
Output frequency	50Hz / 60Hz selectable by setting button		
AC output waveform	True sine wave, THD<3.0%		
AC output regulation	±3% of rated output voltage		
No load dissipation	≤15W		≤ 6W @ standby saving mode
Working temperature	-10~+35°C@100% load (112/124/148), -10~+40°C@100% load (212/224/248); 60°C@50% load	-10~+40°C@100% load, 60°C@50% load	0~+40°C@100% load, 60°C@50% load
Safety standards	110V	design refer to UL458	
	230V	Compliance to EN60950-1	
EMC standards	110V	Compliance to FCC class A	
	230V	Compliance to EN55022 class A, E-Mark, EN61000-4-2,3,8, ENV50204	

200W

Model Name	Continue power	Input VDC	Output VAC / Hz	Output socket	Effi.
TS-200-112[A]	200W	10.5-15	110 / 60	TYPE-A	86.0%
TS-200-124[A]	200W	21.0-30	110 / 60	TYPE-A	87.5%
TS-200-148[A]	200W	42.0-60	110 / 60	TYPE-A	88.0%
TS-200-212[B]	200W	10.5-15	230 / 50	TYPE-B	86.0%
TS-200-224[B]	200W	21.0-30	230 / 50	TYPE-B	87.5%
TS-200-248[B]	200W	42.0-60	230 / 50	TYPE-B	88.0%

□ = A, B (standard model), C, D, E or F (optional model)

400W

Model Name	Continue power	Input VDC	Output VAC / Hz	Output socket	Effi.
TS-400-112[A]	400W	10.5-15	110 / 60	TYPE-A	84.5%
TS-400-124[A]	400W	21.0-30	110 / 60	TYPE-A	86.0%
TS-400-148[A]	400W	42.0-60	110 / 60	TYPE-A	87.0%
TS-400-212[B]	400W	10.5-15	230 / 50	TYPE-B	86.0%
TS-400-224[B]	400W	21.0-30	230 / 50	TYPE-B	87.5%
TS-400-248[B]	400W	42.0-60	230 / 50	TYPE-B	88.5%

□ = A, B (standard model), C, D, E or F (optional model)

700W

Model Name	Continue power	Input VDC	Output VAC / Hz	Output socket	Effi.
TS-700-112[A]	700W	10.5-15	110 / 60	TYPE-A	86%
TS-700-124[A]	700W	21.0-30	110 / 60	TYPE-A	88%
TS-700-148[A]	700W	42.0-60	110 / 60	TYPE-A	89%
TS-700-212[B]	700W	10.5-15	230 / 50	TYPE-B	89%
TS-700-224[B]	700W	21.0-30	230 / 50	TYPE-B	90%
TS-700-248[B]	700W	42.0-60	230 / 50	TYPE-B	91%

□ = A, B (standard model), C, D, E or F (optional model)

AC Output Receptacle (optional for TN/TS series)

TYPE-A	TYPE-B	TYPE-C	TYPE-D	TYPE-E	TYPE-F
USA	Europe	Australia	U.K.	Japan	GFCI

▲ Please consult Mean Well for other kinds of optional output socket.



NEW

Inverter Remote Control

NEW

▲ **TS-1000**

345x 184x 70 mm

▲ **TS-1500**

420x 220x 88 mm

▲ **TS-3000**

474x 283x 98 mm

▲ IRC1

▲ IRC2

75x 55x 21 mm

Description:

IRC1/IRC2 is the monitoring and control unit used for the inverter series. It can decode the RS-232 signal sent by inverter series and display through digital meters. IRC1/IRC2 can also turn ON/OFF of inverter remotely that make the basic control more easily.

Features

- True sine wave output (THD<3%)
- **2 times high surge power for motor related application**
- Advanced digital control by microprocessor
- High efficiency up to 92%
- Standby saving mode to conserve energy
- Built-in fan ON/OFF control function
- Output voltage / frequency adjustable
- Front panel indicator for load / battery / operation status
- High frequency design
- Input protections:
Bat. low alarm / Bat. low shutdown / reverse polarity / over voltage
- Output protections:
Short circuit / Overload / Over temperature
- Applications:
Home appliance, power tools, office and portable equipment, vehicle and yacht...etc.
- 3 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



Model Name	TS-1000	TS-1500	TS-3000 NEW
Rated output power	1000W	1500W	3000W
Maximum output power	1150W for 3 minutes; 1500W for 10 sec.	1725W for 3 minutes; 2250W for 10 sec.	3450W for 3 minutes; 4500W for 10 sec.
Output surge rating (30 cycles.)	2000W	3000W	6000W
DC input rated voltage	12VDC, 24VDC or 48VDC		
AC output voltage	100 / 110 / 115 / 120VAC or 200 / 220 / 230 / 240VAC selectable by setting button		
Output frequency	50Hz/60Hz selectable by setting button		
AC output waveform	True sine wave, THD<3.0%		
AC output regulation	±3% of rated output voltage		
No load dissipation	≤6W @ standby saving mode	≤18W @ standby saving mode	≤10W @ standby saving mode
Working temperature	0 ~ +40°C @ 100% load, 60°C @ 50% load		
Safety standards	110V	Compliance to UL458 (except for 48V and only for GFCI receptacle), TS-3000 pending	
	230V	Compliance to EN60950-1	
EMC standards	110V	Compliance to FCC class A	
	230V	Compliance to EN55022 class A (class B for TS-1500), E-Mark, EN61000-4-2,3,8, ENV50204	

1000W

Model Name	Continue power	Input VDC	Output VAC / Hz	Output socket	Effi.
TS-1000-112[A]	1000W	10.5-15	110 / 60	TYPE-A	88%
TS-1000-124[A]	1000W	21.0-30	110 / 60	TYPE-A	89%
TS-1000-148[A]	1000W	42.0-60	110 / 60	TYPE-A	90%
TS-1000-212[B]	1000W	10.5-15	230 / 50	TYPE-B	90%
TS-1000-224[B]	1000W	21.0-30	230 / 50	TYPE-B	91%
TS-1000-248[B]	1000W	42.0-60	230 / 50	TYPE-B	92%

□ = A, B (standard model), C, D, E or F (optional model)

1500W

Model Name	Continue power	Input VDC	Output VAC / Hz	Output socket	Effi.
TS-1500-112[A]	1500W	10.5-15	110 / 60	TYPE-A	87%
TS-1500-124[A]	1500W	21.0-30	110 / 60	TYPE-A	89%
TS-1500-148[A]	1500W	42.0-60	110 / 60	TYPE-A	90%
TS-1500-212[B]	1500W	10.5-15	230 / 50	TYPE-B	88%
TS-1500-224[B]	1500W	21.0-30	230 / 50	TYPE-B	90%
TS-1500-248[B]	1500W	42.0-60	230 / 50	TYPE-B	91%

□ = A, B (standard model), C, D, E or F (optional model)

3000W

Model Name	Continue power	Input VDC	Output VAC / Hz	Output socket	Effi.
TS-3000-112[A]	3000W	10.5-15	110 / 60	TYPE-A	88%
TS-3000-124[A]	3000W	21.0-30	110 / 60	TYPE-A	90%
TS-3000-148[A]	3000W	42.0-60	110 / 60	TYPE-A	91%
TS-3000-212[B]	3000W	10.5-15	230 / 50	TYPE-B	89%
TS-3000-224[B]	3000W	21.0-30	230 / 50	TYPE-B	91%
TS-3000-248[B]	3000W	42.0-60	230 / 50	TYPE-B	92%

□ = A, B (standard model), C, D, E or F (optional model)

► Features (IRC1 & IRC2)

- Wall-mounted and control panel assembly acceptable
- Built-in ON/OFF button
- LED indicators for remote ON/OFF, abnormal and power saving mode
- Equipped with 10FT cable, optional for 25FT or 50FT
- Connect directly to the remote socket of inverter; no power supply needed
- Suitable series:
IRC1: TS-700 / 1000 / 1500 / 3000 , TN-1500 / 3000
IRC2: TS-700 / 1000 / 1500 / 3000
- 2 years warranty

DC/AC Inverter 1500~3000W True Sine Wave Solar Inverter





▲ TN-1500
420x 220x 88 mm



▲ TN-3000
474x 283x 98 mm

■ Inverter Remote Control



▲ IRC3
75x 55x 21 mm

Description:
IRC3 is the monitoring and control unit used for the inverter series. It can decode the RS-232 signal sent by inverter series and display through digital meters. IRC3 can also turn ON/OFF of inverter remotely that make the basic control more easily.

■ Features

- True sine wave output (THD<3%)
- **2 times high surge power for motor related application**
- Advanced digital control by microprocessor
- High efficiency up to 92%
- Standby saving mode to conserve energy
- Built-in fan ON/OFF control function
- Output voltage / frequency adjustable
- Front panel indicator for load / battery / operation status
- High frequency design
- **Selectable UPS and energy saving mode**
- **AC by pass, built-in AC and solar charger**
- Fast transfer time under 10ms
- Solar input current up to 30A max.
- Input protections:
Bat. low alarm / Bat. low shutdown / reverse polarity / over voltage

- Output protections:
Short circuit / Overload / Over temperature / AC circuit breaker
- **Optional monitoring software**
- Applications:
Home appliance, power tools, office and portable equipment, vehicle and yacht...etc.
- 3 years warranty

► Features (IRC3)

- Wall-mounted and control panel assembly acceptable
- Built-in ON/OFF button
- LED indicators for remote ON/OFF, abnormal and power saving mode
- Equipped with 10FT cable, optional for 25FT or 50FTT
- Connect directly to the remote socket of inverter;
no power supply needed
- Suitable series: TN-1500 / 3000
- 2 years warranty

■ General Specification (Please refer to www.meanwell.com for detail spec.)



Model Name	TN-1500	TN-3000 NEW
Rated output power	1500W	3000W
Maximum output power	1725W for 3 minutes ; 2250W for 10 seconds	3450W for 3 minutes ; 4500W for 10 seconds
Output surge rating (30 cycles.)	3000W	6000W
DC input rated voltage	12VDC, 24VDC or 48VDC	
AC output voltage	100 / 110 / 115 / 120VAC or 200 / 220 / 230 / 240VAC selectable by setting button	
Output frequency	50Hz/60Hz selectable by setting button	
AC output waveform	True sine wave, THD<3.0%	
AC output regulation	±3% of rated output voltage	
No load dissipation	≤18W @ standby saving mode	≤10W @ standby saving mode
Transfer time (Typ.)	≤10ms inverter mode ↔ by pass mode	
Working temperature	0 ~ +40°C @ 100% load, 60°C @ 50% load	
Safety standards	110V	Compliance to UL458 (except for 48V and only for GFCI receptacle), TN-3000 pending
	230V	Compliance to EN60950-1
EMC standards	110V	Compliance to FCC class A
	230V	Compliance to EN55022 class A (class B for TN-1500), E-Mark, EN61000-4-2,3,4,5,6,8,11, ENV50204

■ 1500W (Inverter with AC & Solar Charger)

Model Name	Continue power	Input VDC	Output VAC / Hz	Output socket	Effi.
TN-1500-112[A]	1500W	10.5-15	110 / 60	TYPE-A	87%
TN-1500-124[A]	1500W	21.0-30	110 / 60	TYPE-A	89%
TN-1500-148[A]	1500W	42.0-60	110 / 60	TYPE-A	90%
TN-1500-212[B]	1500W	10.5-15	230 / 50	TYPE-B	88%
TN-1500-224[B]	1500W	21.0-30	230 / 50	TYPE-B	90%
TN-1500-248[B]	1500W	42.0-60	230 / 50	TYPE-B	91%

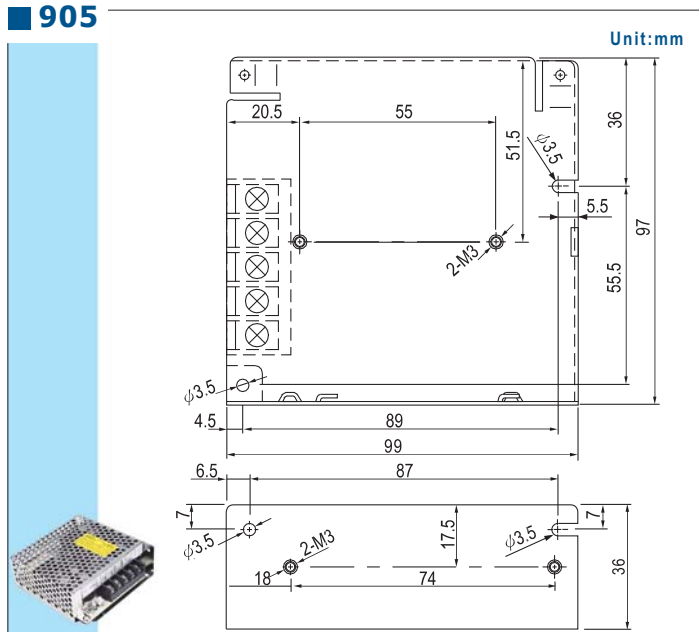
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■ 3000W (Inverter with AC & Solar Charger)

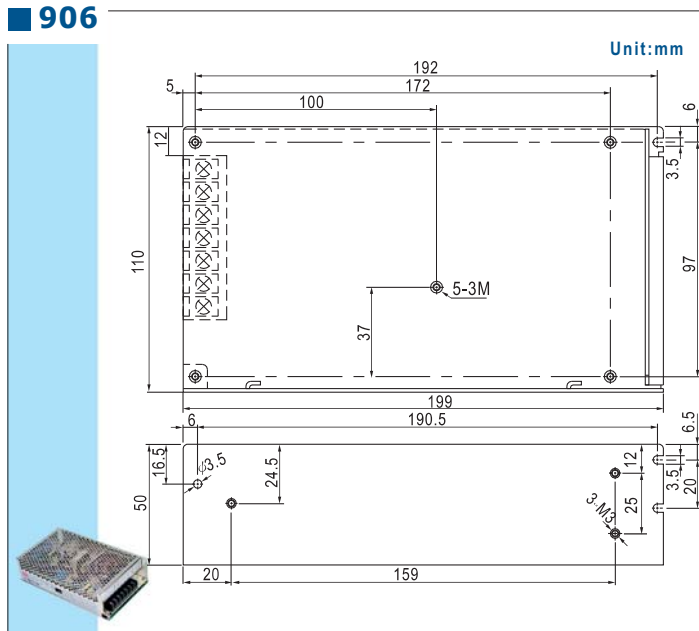
Model Name	Continue power	Input VDC	Output VAC / Hz	Output socket	Effi.
TN-3000-112[A]	3000W	10.5-15	110 / 60	TYPE-A	88%
TN-3000-124[A]	3000W	21.0-30	110 / 60	TYPE-A	90%
TN-3000-148[A]	3000W	42.0-60	110 / 60	TYPE-A	91%
TN-3000-212[B]	3000W	10.5-15	230 / 50	TYPE-B	89%
TN-3000-224[B]	3000W	21.0-30	230 / 50	TYPE-B	91%
TN-3000-248[B]	3000W	42.0-60	230 / 50	TYPE-B	92%

□ = A, B (standard model), C, D, E or F (optional model)

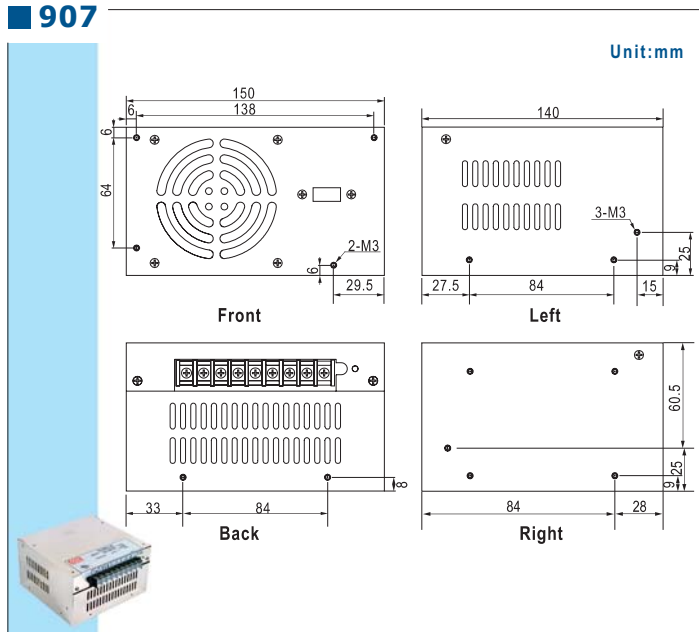
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906

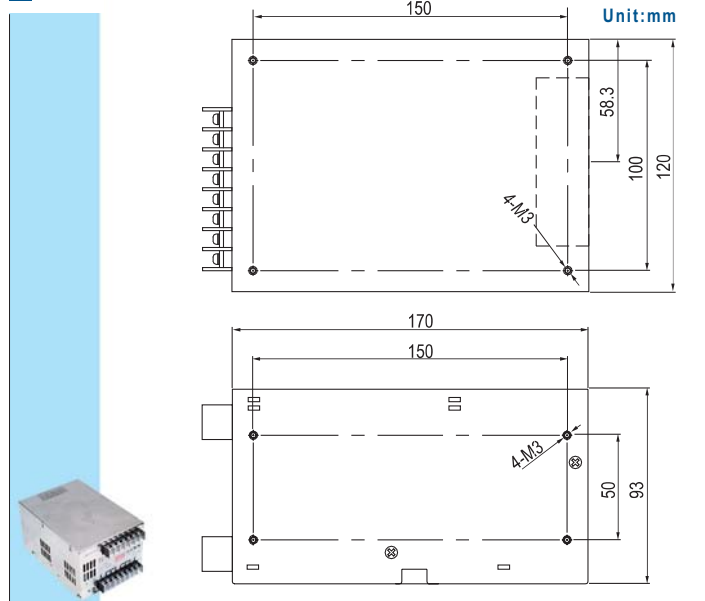


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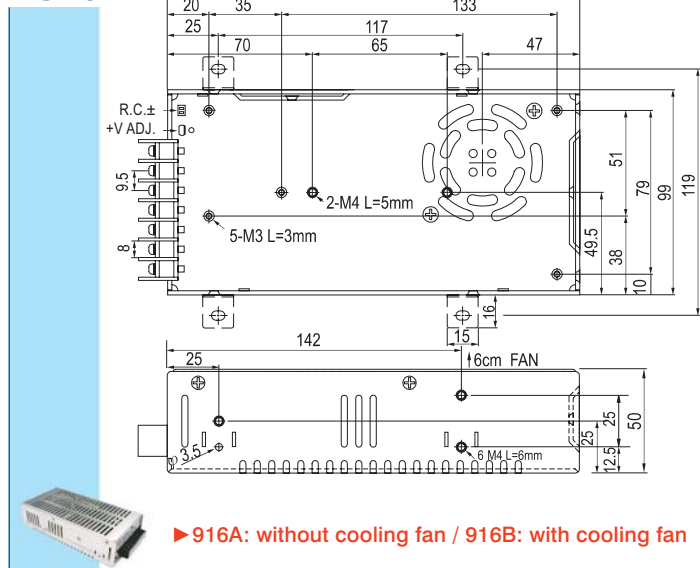


Case Drawing

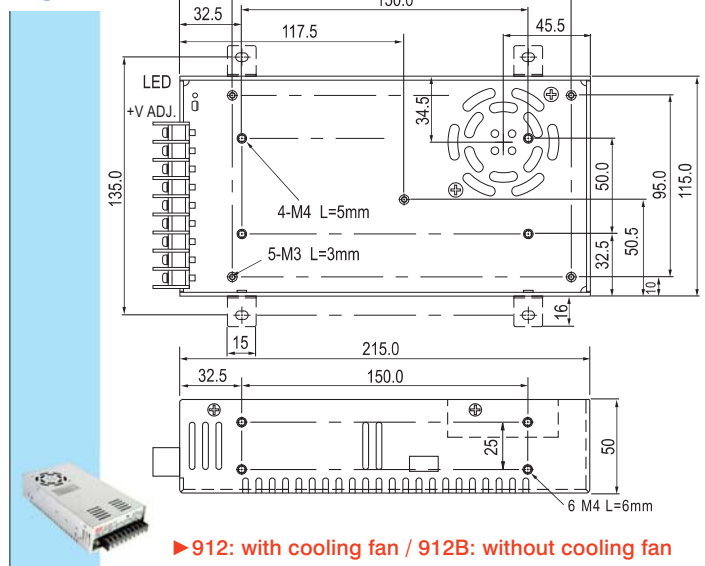
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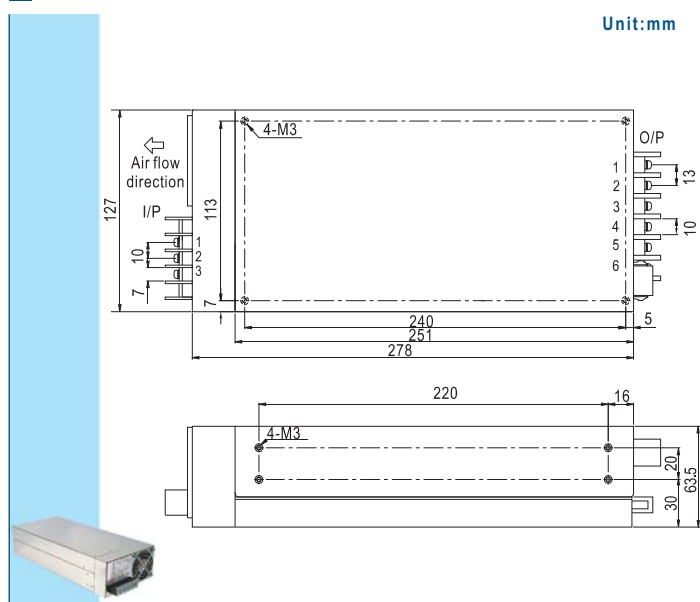
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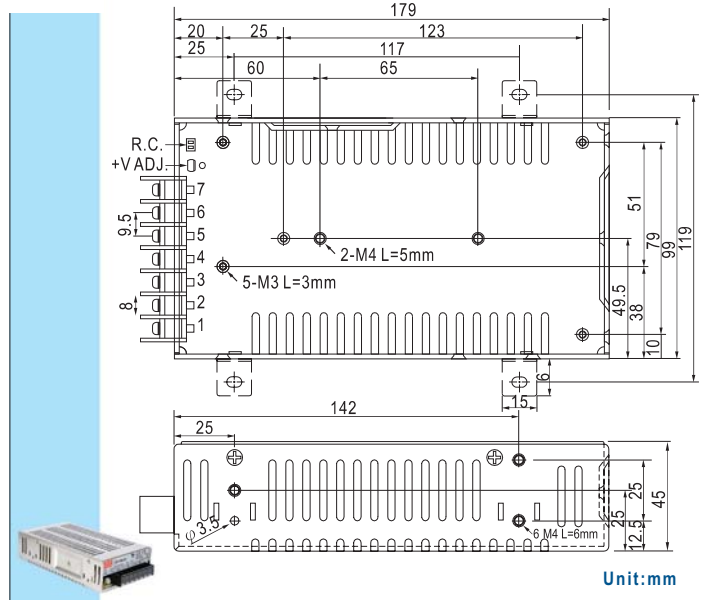
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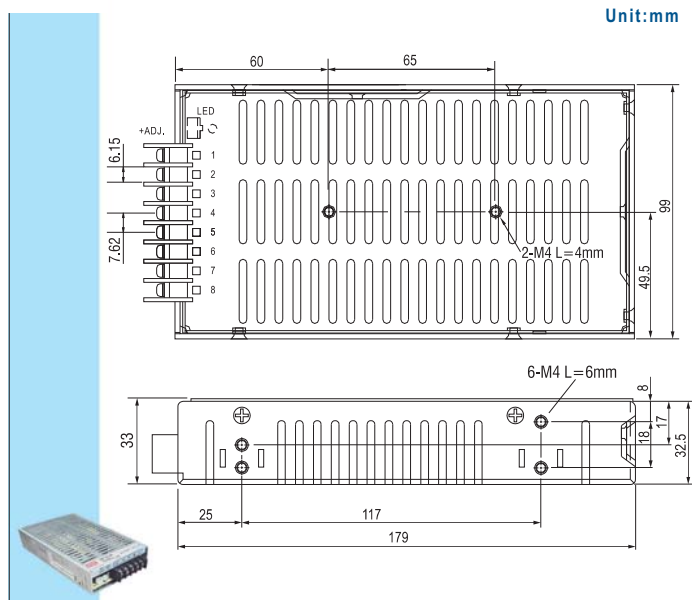
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915A



920A



Unit:mm



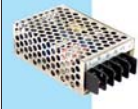
Unit:mm



Unit:mm



Unit:mm

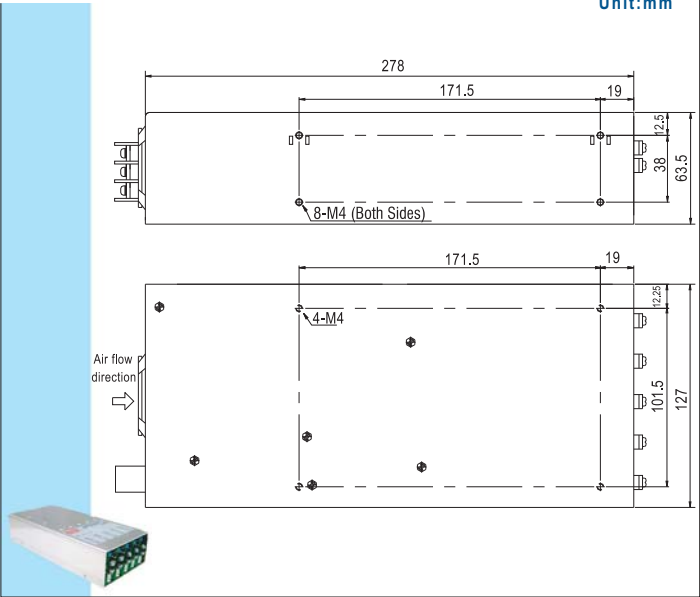


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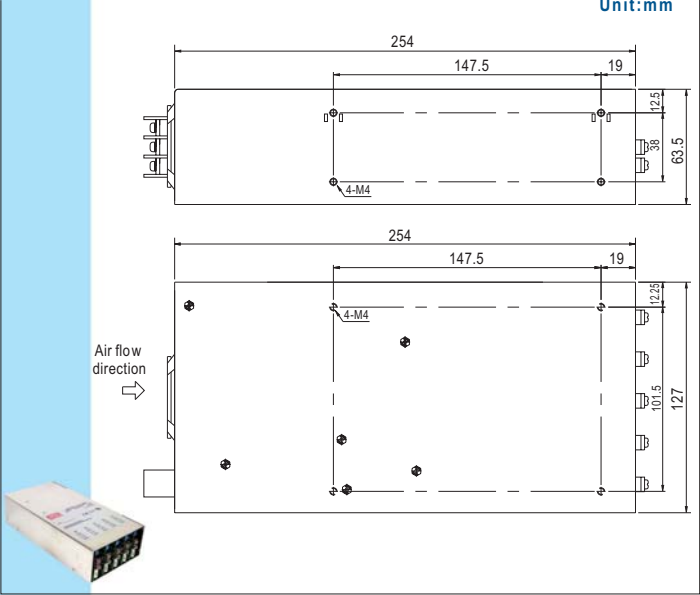
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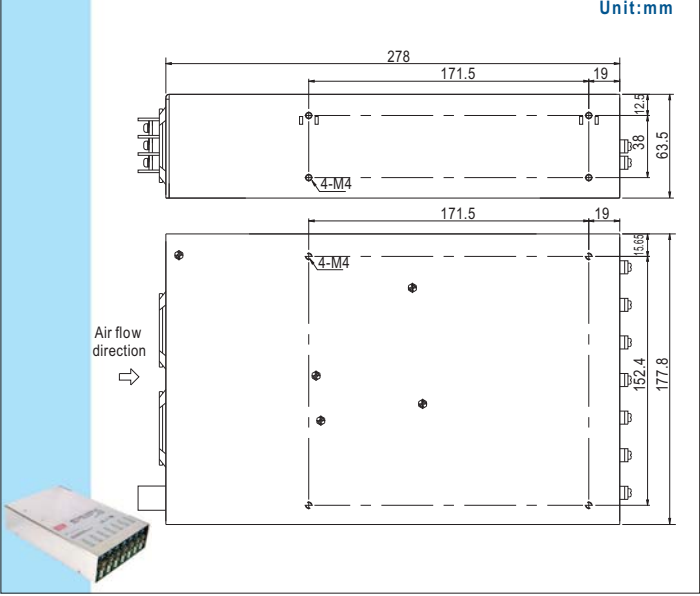
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Unit:mm



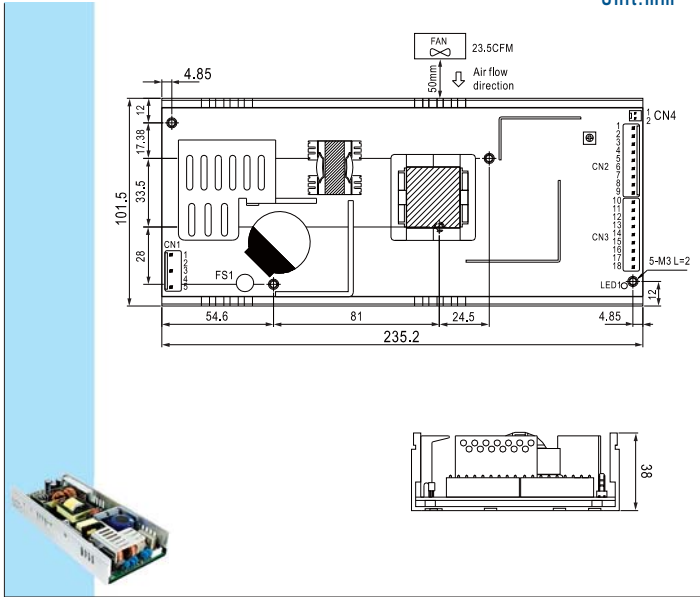
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Unit:mm



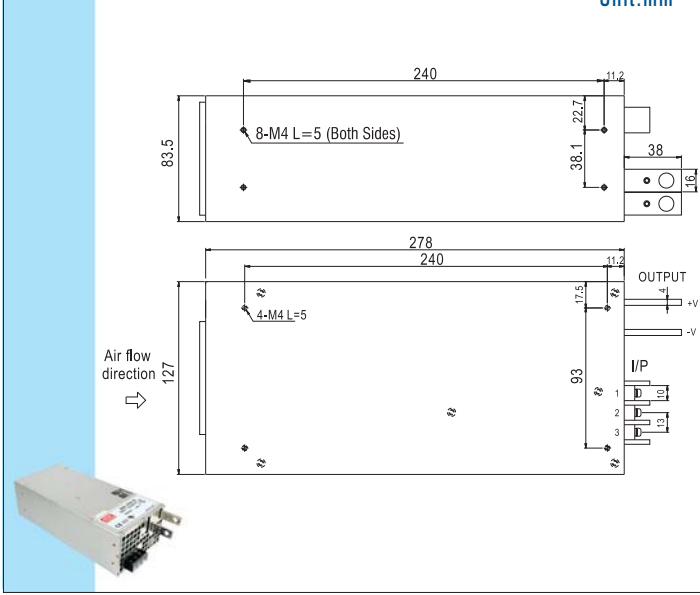
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Unit:mm



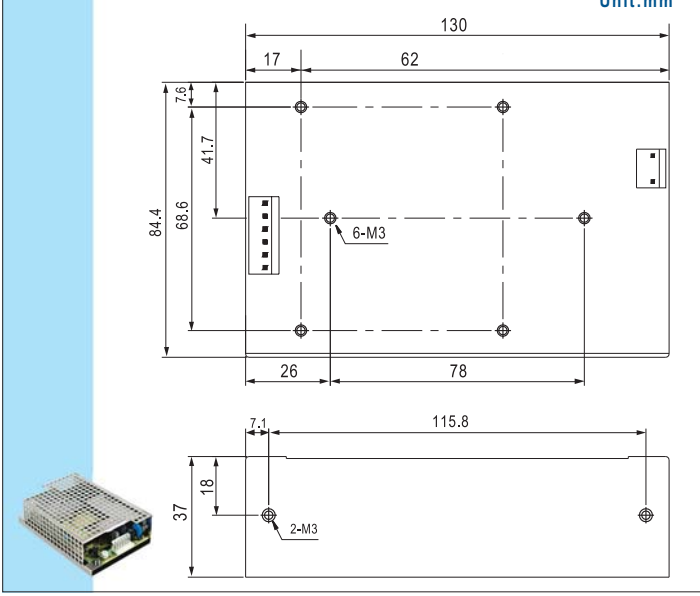
■ 943

Unit:mm



■ 946A

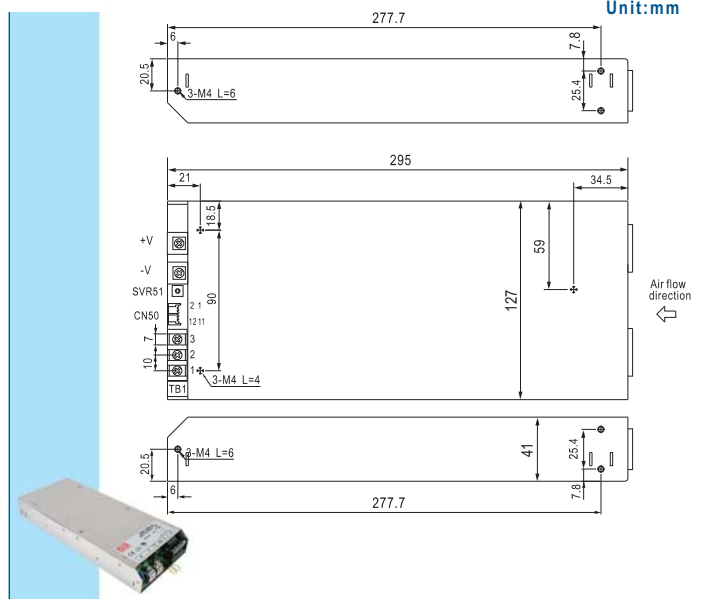
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Case Drawing

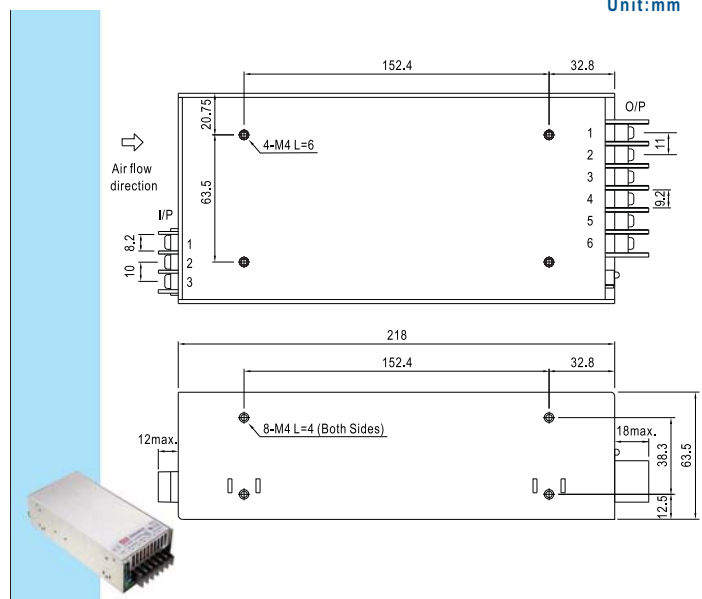
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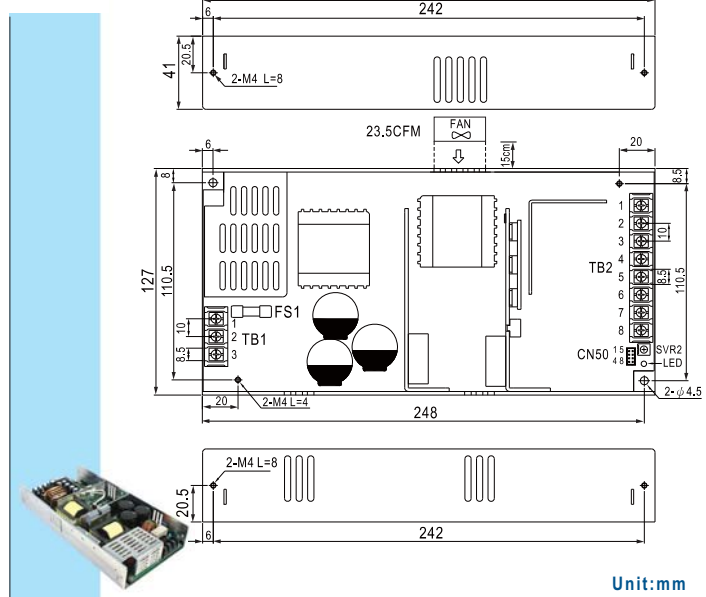
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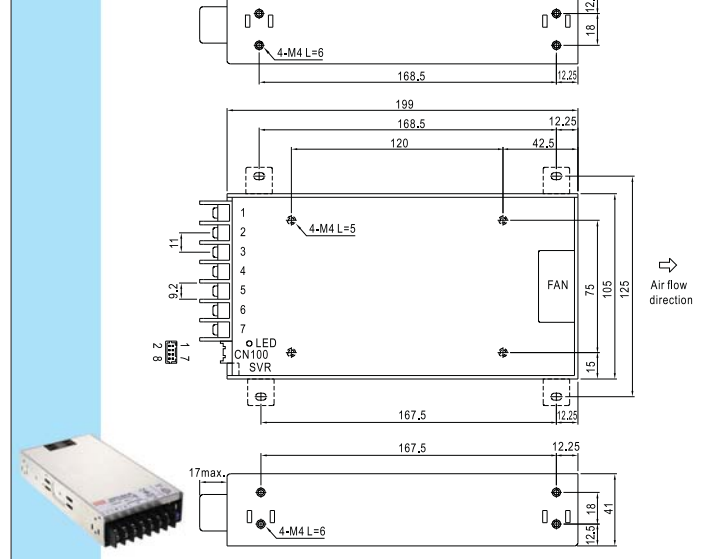
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Unit:mm



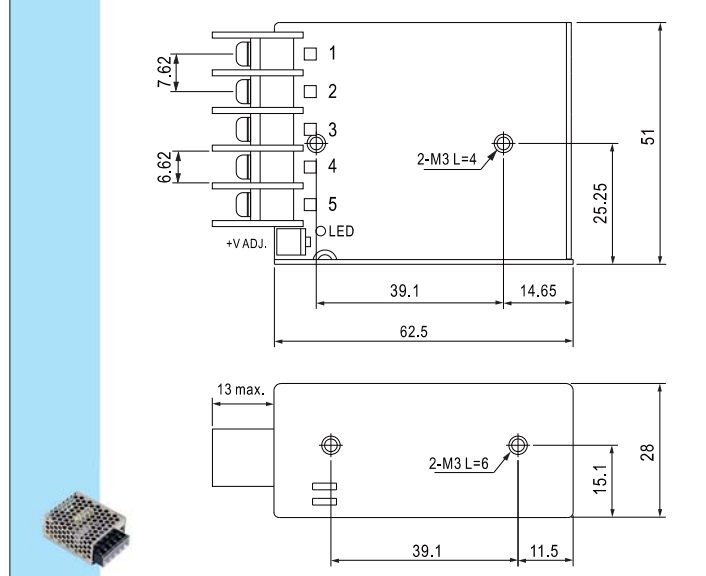
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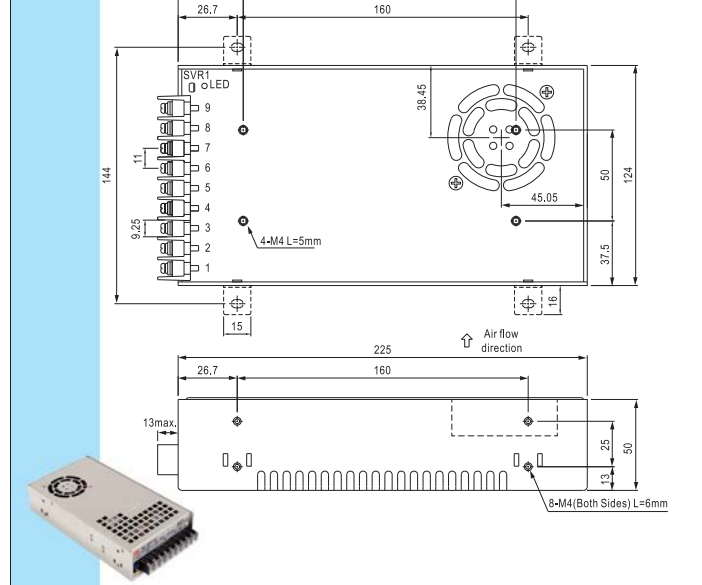
971A

Unit:mm



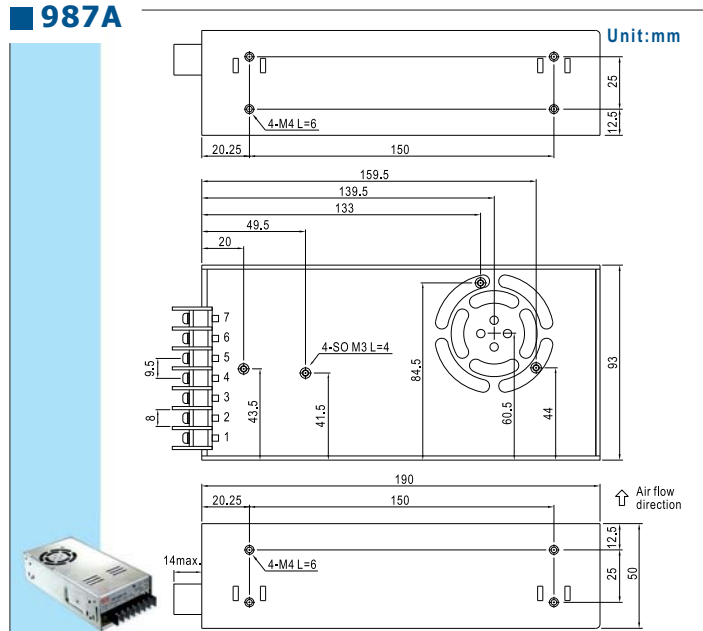
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Unit:mm

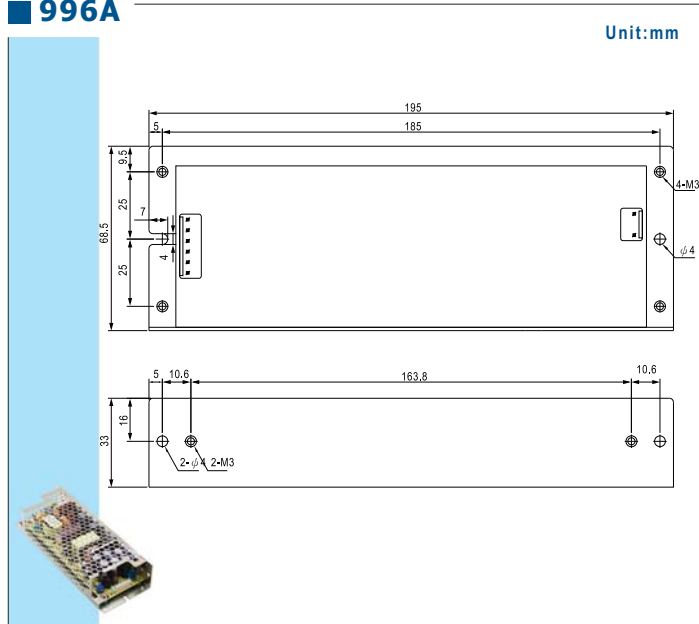


Case Drawing

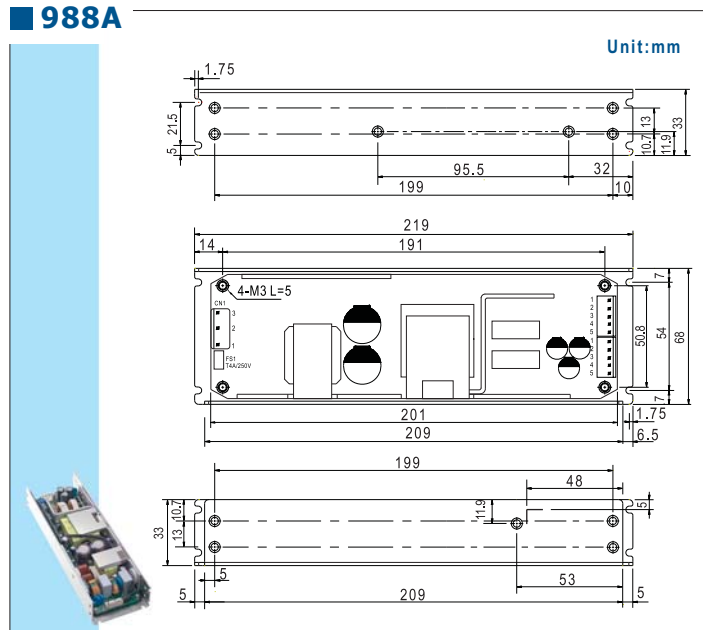
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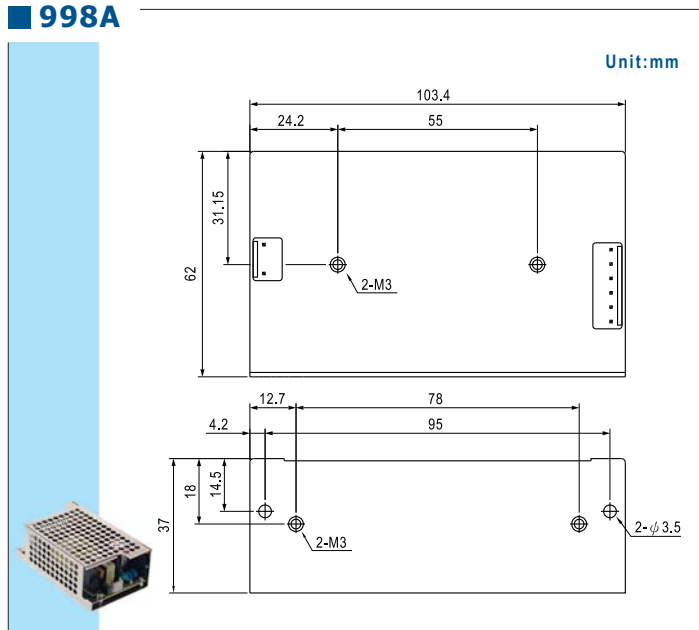
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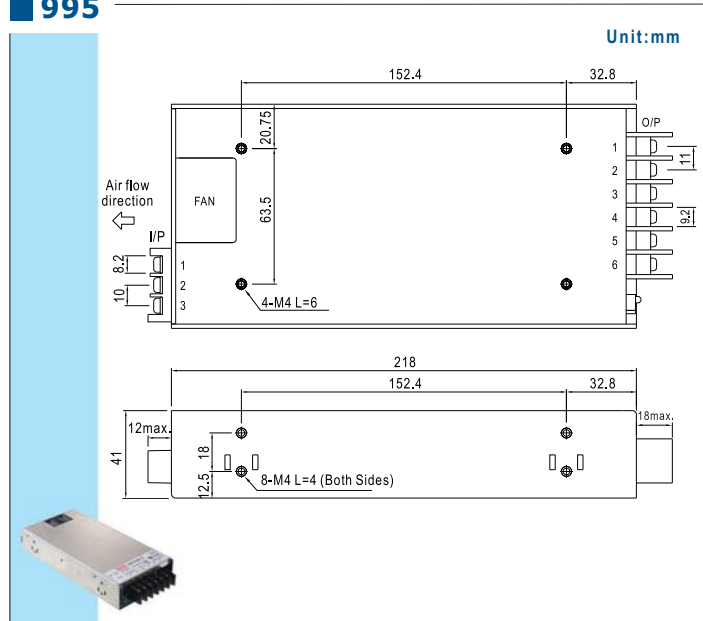
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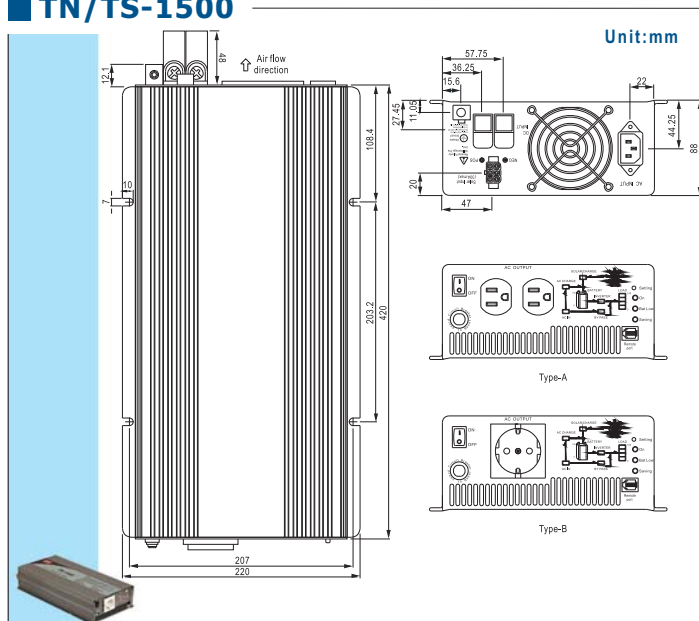
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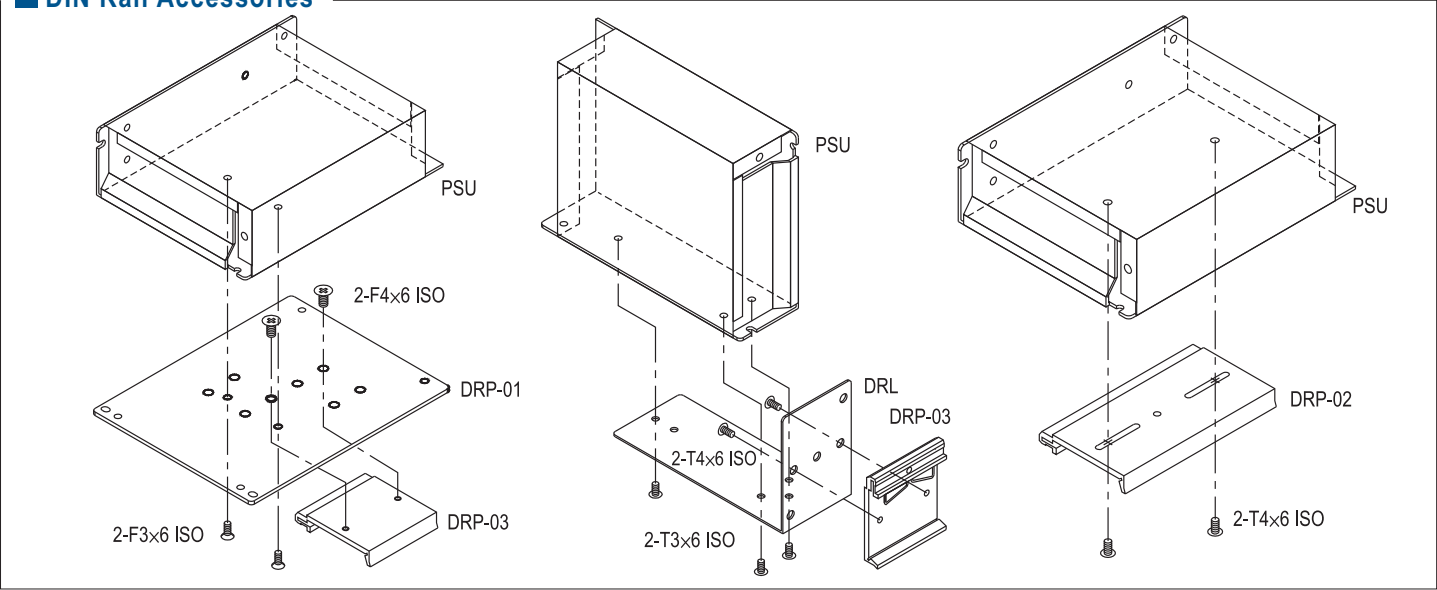
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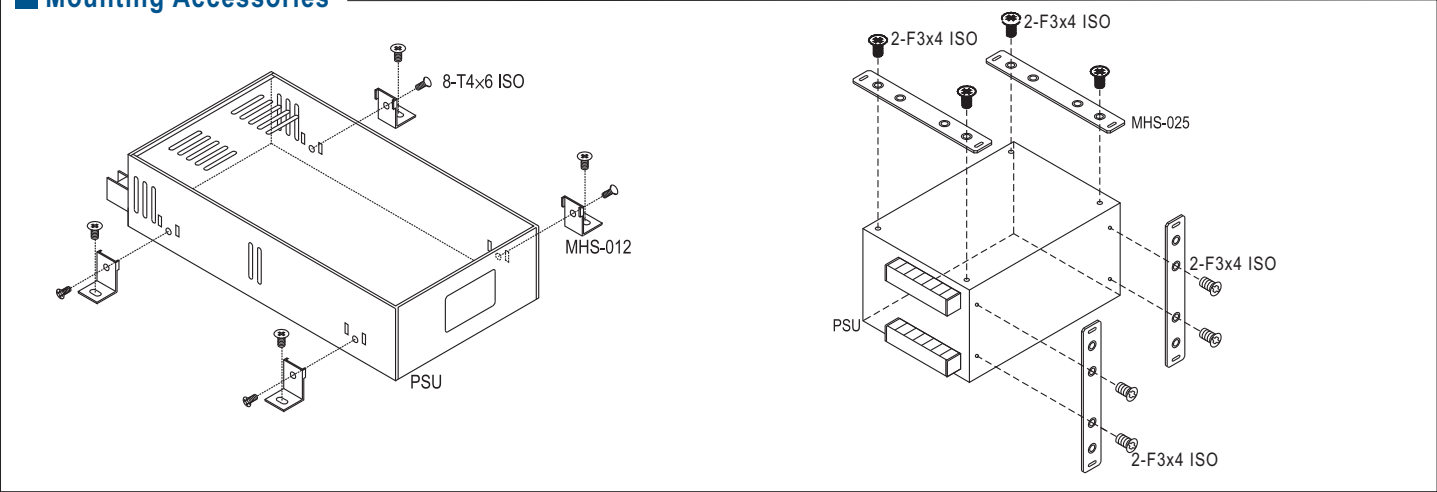
TN/TS-1500



DIN Rail Accessories



Mounting Accessories



ITEM	Order No.	Case	Model
	DRL-01	903 905 931 932 971	S-40, D-30, T-30, S-15, S-25, RS-25, NES-15 RS-35, NES-25 RS-15
	DRL-02	901 902 906 915 916 920	S-50, S-60, D-60, S-100, S-100F, SD-100, S-150, SD-150, D-120, SP-100, SP-150, SP-200, SP-75,
	DRL-03	911 912	S-240, S-320, SP-320,
	DRL-03A	980 987	SP-240, HRP(G)-300
	DRP-01	901, 902 903, 906 912, 931 932	All models
	DRP-02	905 / 915 916 / 920 928	S-15, S-25, ... / SP-100, ... SP-150, SP-200, ... / SP-75, ... USP-225,
	DRP-03	DRP-01 DRL-01~03	All models

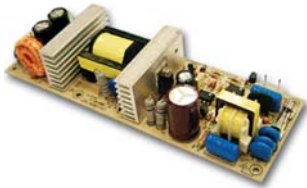
ITEM	Order No.	Case	Model
	MHS012	912, 915 916, 935 939, 940 977, 980 986, 987	S-201, S-320, S-350, SP-100, SP-150, SP-200, SP-320, SE-450/1000, MP450/650/1000, SP-240, HRP-300/600
	MHS013	919 926	PSP-500, SP-750, SE-600
	MHS014	952	RSP-1000, SD-1000
	MHS025	910	SP-500, PSP-600.....
	MHS026	943	RSP-1500
	MHS027	971A 931	RS-15 RS-25
	TBC-05	901 903 905 932	SD-50, S-60 S-40, NES-50, RS-75 S-25, SD-25, NES-35, RS-50 NES-25, RS-35
	TBC-07	901 902 902A 903 905 906	D/ID-60, NED/T-75, RD-85, NES-100, RS-100, T-60 S-100F, RD-125, NES-150, RS-150, SD-100 HRP-200 NED/T-50, RD/RID-65, T-40 NED/T-35, RD-50 S-150, SC-150, SD-150
	TBC-08	901 906	AD-155, ADD/ADS-155 D/T/Q-120,

Custom-Standard Product List



Want to get a free design?

If you can't find a suitable product from MEAN WELL's product line and your SPEC also can't be modified from any of our standard product, MEAN WELL offers you an opportunity to get the free custom-made design which is called CDM (Cooperate Design Manufacturer). Unlike ODM which can only fulfill the needs of one customer, our CDM products tend to cover the requirements of more customers and hence can boost the production volume and drag down the costs for all the customers. Following is the list of our under development CDM products, you are welcome to join the design procedure and let the new product fulfill your special requirement. No NRE charge, no safety costs, just contact us in time!!

PAD-100  232 x 65 x 38 mm	100W Single Output with Dual Input Source • Dual input source: 90~264VAC or 36~75VDC • Built-in PFC function for AC input • Input mode indicating signal • LED indicator for power on • Protections: Short circuit / Overload / Over voltage • Cooling by free air convection • DC output: 12V / 24V • 2 years warranty
PT-320  197 x 108 x 37 mm	320W Triple Output with PFC Function • Universal AC input / Full range • Built-in active PFC function, PF>0.92 • Protections: Short circuit / Overload / Over voltage / Over temperature • Seperate protections for all outputs • Wide range output voltage adjustment for CH1&2 • No load power consumption <0.75W • Built-in PS-ON control function • Design refer to UL60950-1, TUV EN60950-1 • 130% peak load capability for all outputs • 80% load by free air convection, 100% load with 18CFM forced air • Working temperature: -20°C~+70°C • Output models: - PT-320A - 12V / 0~10A, 24V / 0~6A, 5VSB / 0~5A - PT-320B - 24V / 0~10A, 48V / 0~6A, 12VSB / 0~5A • 3 years warranty
SP-400  225x 124x 50mm	400W Single Output with PFC Function • Universal AC input / Full Range • Built-in active PFC function • Protections: Short circuit / Overload / Over voltage / Over temperature • Built-in constant current limiting circuit • Forced air cooling by built-in DC fan • Output models: 3.3V / 5V / 12V / 15V / 24V / 36V / 48V • 3 years warranty
QP-1000  278 x 177.8 x 63.5 mm	1000W Quad Output with PFC Function (Low cost substitute of modular power) • Built-in external voltage control function 10~120% for CH3 & CH4 • Universal AC input / Full range • Built-in active PFC function, PF > 0.95 • Protections: Short circuit / Overload / Over voltage / Over temperature • Built-in remote ON/OFF control for CH3, CH4, and the whole unit • Isolated outputs with independent PWM control, no minimum load required • Built-in remote sense for CH3 & CH4 • Output current monitor signal for CH3 & CH4 • Cooling by built-in DC fan • DC output: 12V@8A / 5V@6A / 24V@12.5A / 24V@25A • Design refer to UL60950-1, TUV EN60950-1 • 3 years warranty

Quotation

- Most of our standard products are available and in stock through our global authorized distributors. Please contact your local distributor for prompt service. Please let us know if you are unable to find Mean Well's distributor information in your local area.
- Written quotations are valid for 60 days from the date quoted unless otherwise specified. Customers are responsible for all banking related charges outside of Taiwan.

Order

- Orders must be placed to Mean Well by mail, e-mail, or fax. Please do not place your order by phone. For international business, Mean Well will provide order confirmations with scheduled delivery dates. If you fail to receive an order confirmation within 2 working days, please reconfirm your order.
- Minimum order amounts per shipment are determined by our local distributor's stock capability. Please contact our sales representative for details.
- We encourage customers to place long-term orders. However, order cancellations or reschedules must be made 45 days prior to the scheduled shipping date.

Delivery

- For our standard products, Mean Well usually keeps around 2-8 weeks safety stock (based on the past 3 months sales record) for prompt delivery of small / medium quantity orders. For large quantity or new product orders, 3-5 weeks lead-time is needed.

Return

- All returned goods must have a RMA (return material authorization) number marked on each carton. Contact Mean Well for a RMA number. All goods must be shipped as "freight prepaid" unless confirmed by our sales representatives.

Warranty

- Products found to be defective within 30 days from the date of receipt can be returned for credit or exchange. After the initial 30 days, Mean Well will repair the goods according to our warranty period. Contact Mean Well for further information on credit or a RMA number. Goods should be shipped as "freight prepaid" to Mean Well and Mean Well will repair and return the defective units (freight prepaid) within 7 working days. If the warranty period has expired, a repair charge (20% of original purchase price or min. USD 5.00/pc) will be charged.
- If customers do the repair by themselves, Mean Well can provide reasonable quantity of free components for repair purpose.

Attention

- We make every effort to ensure the accuracy of information in the catalog. If there is any discrepancy between the data presented in our catalog and the SPEC, the SPEC sheets should take precedence (please refer to www.meanwell.com for the latest SPEC information). We cannot take any responsibility of any consequence arising due to error or change in specification. We suggest customers conduct a sample test for evaluation and approval before placing a formal order.
- For continuing product improvement, Mean Well reserves the right to revise any information in this catalog without further notification.

The EMC directive applies to component power supplies

- Mean Well ensures that all of the power supplies with CE declaration are designed to meet EMC directives and are verified by an independent certified lab agent with a test report prepared. However, there are 2 categories for power supplies: One is a stand-alone power supply, such as laboratory power supplies which can be tested under EMC individually. The other category is a component power supply such as an enclosed power supply and open PCB power supply. These power supplies are considered a component which will be installed into a final equipment. Since EMC performance is affected by the final installation of a product, Mean Well cannot guarantee that the final equipment will meet EMC directives. Final product manufacturers must re-confirm that their product meets EMC directives.

RoHS Announcement

- To minimize the environmental impact and take more responsibility to the earth we live, MEAN WELL applies manufacturing that complies with Directive 2002/95/EC of the European Parliament - RoHS (Restriction of Hazardous Substances) since Sep. 2005. Please refer to the declaration on our web site for more detail information.

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