MEAN WELL

Your Reliable Power Partner

Standard Switching Power Supply Manufacturer

2018 April

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Enclosed-LRS Series 35~100W Low Profile

Features

- No load power consumption <0.2W for 35W/50W; <0.3W for 75W/100W
- Universal AC input / Full range
- Withstand 300VAC surge input for 5 seconds
- Ultra compact and 1U low profile
- Withstand 5G vibration test
- High operating temperature up to 70°C
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- Compliance to IEC/EN60335-1(PD3) and IEC/EN61558-1,-2-16 for household appliances
- Operating altitude up to 5000 meters
- High efficiency, long life and high reliability
- LED indicator for power on
- Low cost
- 3 years warranty

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

Model No.		LRS-35	LRS-50	LRS-75	LRS-100
AC input voltage range		85~264VAC ; 120~370VDC			
AC inrush current (max.)		Cold start, 45A at 230VAC		65A at 230VAC	50A at 230VAC
DC adjustment range		±10% by potentiometer			
Overload protection	Range	110%~150%			
	Type	Hiccup mode, auto-recovery			
Over voltage protection	Range	115%~135% rated output voltage			
	Type	Shut down o/p voltage, re-power on to recover			
Withstand voltage		I/P-O/P: 4kVAC, I/P-FG: 2kVAC, O/P-FG: 1.25kVAC, 1 minute			
Working temperature		-30~+70°C (refer to output derating curve)			
Safety standards		UL62368-1, IEC/EN62368-1, IEC/EN61558-1, EN61558-2-16, IEC/EN60335-1, CCC GB4943, BSMI CNS14336-1, EAC TP TC 004, AS/NZS 60950.1 approved			
EMC standards		EN55032 class B, EN55014, EN61000-3-2, 3, EN61000-4,2,3,4,5,6,8,11, GB9254, CNS13438			
Connection		5P/9.5mm pitch terminal block			7P/9.5mm pitch terminal block
Dimension (LxWxH) (mm)		99x 82x 30		99x 97x 30	129x 97x 30

35W LRS-35

Model No.	Output	Tol.	R&N	Effi.
LRS-35-5	5V, 0~7A	±2%	80mV	82.0%
LRS-35-12	12V, 0~3A	±1%	120mV	86.0%
LRS-35-15	15V, 0~2.4A	±1%	120mV	86.0%
LRS-35-24	24V, 0~1.5A	±1%	150mV	88.0%
LRS-35-36	36V, 0~1A	±1%	200mV	88.0%
LRS-35-48	48V, 0~0.8A	±1%	200mV	89.0%

75W LRS-75

Model No.	Output	Tol.	R&N	Effi.
LRS-75-5	5V, 0~14A	±2%	100mV	86.5%
LRS-75-12	12V, 0~6A	±1%	120mV	89.0%
LRS-75-15	15V, 0~5A	±1%	120mV	89.0%
LRS-75-24	24V, 0~3.2A	±1%	150mV	90.0%
LRS-75-36	36V, 0~2.1A	±1%	200mV	91.5%
LRS-75-48	48V, 0~1.6A	±1%	200mV	91.5%

50W LRS-50

Model No.	Output	Tol.	R&N	Effi.
LRS-50-3.3	3.3V, 0~10A	±3%	80mV	80.0%
LRS-50-5	5V, 0~10A	±2%	80mV	83.0%
LRS-50-12	12V, 0~4.2A	±1%	120mV	86.0%
LRS-50-15	15V, 0~3.4A	±1%	120mV	88.0%
LRS-50-24	24V, 0~2.2A	±1%	150mV	88.0%
LRS-50-36	36V, 0~1.45A	±1%	200mV	89.0%
LRS-50-48	48V, 0~1.1A	±1%	200mV	90.0%

100W LRS-100

Model No.	Output	Tol.	R&N	Effi.
LRS-100-3.3	3.3V, 0~20A	±3%	100mV	84.5%
LRS-100-5	5V, 0~18A	±2%	100mV	86.0%
LRS-100-12	12V, 0~8.5A	±1%	120mV	88.0%
LRS-100-15	15V, 0~7A	±1%	120mV	88.5%
LRS-100-24	24V, 0~4.5A	±1%	150mV	90.0%
LRS-100-36	36V, 0~2.8A	±1%	200mV	90.5%
LRS-100-48	48V, 0~2.3A	±1%	200mV	91.0%

Enclosed-LRS Series 150~350W Low Profile

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LRS-350 LRS-200 LRS-150/LRS-150F

Features

- No load power consumption <0.5W for 150W; <0.75W for 200W/350W
- AC input selectable by switch (LRS-150F Universal AC input / Full range)
- Withstand 300VAC surge input for 5 seconds
- Ultra compact and 1U low profile
- Withstand 5G vibration test
- High operating temperature up to 70°C
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Cooling by free air convection (150W/200W); forced air cooling by built-in DC fan (350W)
- Compliance to IEC/EN60335-1(PD3) and IEC/EN61558-1,-2-16 for household appliances (150W)
- Operating altitude up to 5000 meters
- LED indicator for power on
- High efficiency, long life and high reliability
- Low cost
- 3 years warranty

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

Model No.		LRS-150F	LRS-150	LRS-200	LRS-350
AC input voltage range		85~264VAC; 120~370VDC	115 / 230VAC by switch		
AC inrush current(max.)		Cold start, 60A at 230VAC			
DC adjustment range		±10% by potentiometer			
Overload protection	Range	110%~140%			
	Type	Hiccup mode, auto-recovery			
Over voltage protection	Range	115%~145% rated output voltage			
	Type	Shut down o/p voltage, re-power on to recover			
Withstand voltage		I/P-O/P: 4kVAC, I/P-FG: 2kVAC, O/P-FG: 1.25kVAC		I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC	
Working temperature		-30~+70°C (refer to output derating curve)		-25~+70°C (refer to output derating curve)	
Safety standards		UL62368-1, IEC/EN62368-1, IEC/EN61558-1, EN61558-2-16, IEC/EN60335-1, CCC GB4943, BSMI CNS14336-1, EAC TP TC 004, AS/NZS60950.1 approved		UL62368-1, BSMI CNS14336-1, EAC TP TC 004 approved	
EMC standards		EN55032 class B, EN55014, EN61000-3-2(120W), 3, EN61000-4,2,3,4,5,6,8,11, GB/T 9254, EAC TP TC 020, BSMI CNS13438		EAC TP TC 020, BSMI CNS13438, Design refer to EN55032 class A	
Connection		7P/9.5mm pitch terminal block		9P/9.5mm pitch terminal block	
Dimension (LxWxH) (mm)		159x 97x 30		215x 115x 30	

LRS-150 Series

Model No.	Output	Tol.	R&N	Effi.
LRS-150-12	12V, 0~12.5A	±1%	150mV	87.5%
LRS-150-15	15V, 0~10A	±1%	150mV	88.5%
LRS-150-24	24V, 0~6.5A	±1%	200mV	89.0%
LRS-150-36	36V, 0~4.3A	±1%	200mV	89.0%
LRS-150-48	48V, 0~3.3A	±1%	200mV	90.0%

LRS-200 Series

Model No.	Output	Tol.	R&N	Effi.
LRS-200-3.3	3.3V, 0~40A	±3%	150mV	83.0%
LRS-200-4.2	4.2V, 0~40A	±4%	150mV	86.0%
LRS-200-5	5V, 0~40A	±3%	150mV	87.0%
LRS-200-12	12V, 0~17A	±1.5%	150mV	87.5%
LRS-200-15	15V, 0~14A	±1%	150mV	88.0%
LRS-200-24	24V, 0~8.8A	±1%	150mV	89.5%
LRS-200-36	36V, 0~5.9A	±1%	200mV	89.5%
LRS-200-48	48V, 0~4.4A	±1%	200mV	90.0%

LRS-150F Series

Model No.	Output	Tol.	R&N	Effi.
LRS-150F-5	5V, 0~22A	±2%	100mV	85.0%
LRS-150F-12	12V, 0~12.5A	±1%	150mV	87.5%
LRS-150F-15	15V, 0~10A	±1%	150mV	89.0%
LRS-150F-24	24V, 0~6.5A	±1%	200mV	89.0%
LRS-150F-36	36V, 0~4.3A	±1%	200mV	89.0%
LRS-150F-48	48V, 0~3.3A	±1%	200mV	90.0%

LRS-350 Series

Model No.	Output	Tol.	R&N	Effi.
LRS-350-3.3	3.3V, 0~60A	±4%	150mV	79.5%
LRS-350-4.2	4.2V, 0~60A	±4%	150mV	81.5%
LRS-350-5	5V, 0~60A	±3%	150mV	83.5%
LRS-350-12	12V, 0~29A	±1.5%	150mV	85.0%
LRS-350-15	15V, 0~23.2A	±1%	150mV	86.0%
LRS-350-24	24V, 0~14.6A	±1%	150mV	88.0%
LRS-350-36	36V, 0~9.7A	±1%	200mV	88.5%
LRS-350-48	48V, 0~7.3A	±1%	200mV	89.0%

Enclosed-G3 Series High Reliability Compact

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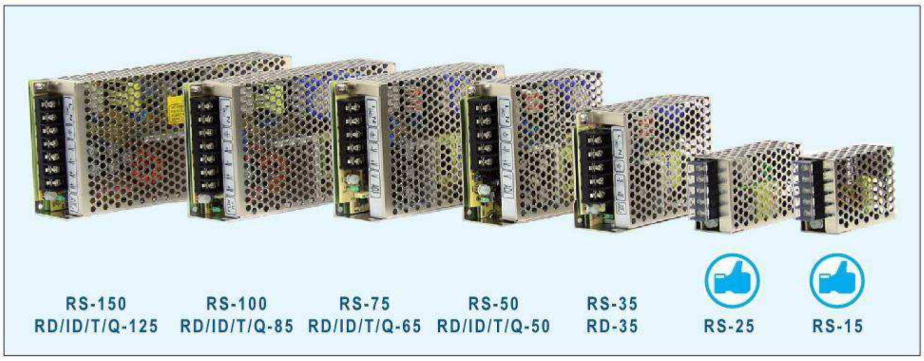

Features

- No load power consumption <0.5W (RS-15~75)
- All using 105°C long life electrolytic capacitors
- Protections: Short circuit / Overload / Over voltage / Over Temp.(RS-15)
- 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
- Long life and high reliability
- LED indicator for power on
- Suitable for critical applications
- 3 years warranty

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

(RS-15/25,RD,RT,RQ) (RS-15, 25, 50 only)

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	85~264VAC, 120~370VDC	88~264VAC, 125~373VDC					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		
DC adjustment range	±10% by potentiometer for single output; CH1 -5%~+10% by potentiometer 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: 2kVAC, O/P - FG: 0.5kVAC, 1 minute						
Working temperature	-20~+70°C		-25~+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	UL62368-1, TUV EN62368-1, CCC GB4943(RS-15, 25, 50 only), EAC TP TC 004, BSMI CNS14336-1(RS-15/25, RD,RT, RQ only) approved						
EMC standards	EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61000-6-2 (EN50082-2) (35~150W), GB17625.1, EAC TP TC 020; GB9254 for RS-15, 25, 50 only						
Connection	Terminal block for input and output						
Dimension (LxWxH)(mm)	62.5x 51x 28	78x 51x 28	99x 82x 36	99x 97x 36	129x 98x 38	159x 97x 38	199x 98x 38
Case No.	971A	931A	932A	905B	903	901C	902A
Packing	108pcs /15.0kg	60pcs /13.0kg	45pcs /14.0kg	45pcs /19.5kg	30pcs /13.3kg	24pcs /15.4kg	20pcs /15kg

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%

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%

35W — Single Output

Model No.	Output	Tol.	R&N	Effi.
RS-35-3.3	3.3V, 0~7.0A	±3%	80mV	76.5%
RS-35-5	5V, 0~7.0A	±2%	80mV	80.5%
RS-35-12	12V, 0~3.0A	±1%	120mV	84.5%
RS-35-15	15V, 0~2.4A	±1%	120mV	86.0%
RS-35-24	24V, 0~1.5A	±1%	120mV	88.0%
RS-35-48	48V, 0~0.8A	±1%	200mV	88.5%

50W — Single Output

Model No.	Output	Tol.	R&N	Effi.
RS-50-3.3	3.3V, 0~10A	±3%	80mV	78.0%
RS-50-5	5V, 0~10A	±2%	80mV	83.0%
RS-50-12	12V, 0~4.2A	±1%	120mV	84.5%
RS-50-15	15V, 0~3.4A	±1%	120mV	86.0%
RS-50-24	24V, 0~2.2A	±1%	120mV	88.0%
RS-50-48	48V, 0~1.1A	±1%	200mV	89.0%

75W — Single Output

Model No.	Output	Tol.	R&N	Effi.
RS-75-3.3	3.3V, 0~15A	±3%	80mV	75.0%
RS-75-5	5V, 0~12A	±2%	80mV	79.0%
RS-75-12	12V, 0~6.0A	±1%	120mV	84.5%
RS-75-15	15V, 0~5.0A	±1%	120mV	86.0%
RS-75-24	24V, 0~3.2A	±1%	120mV	88.5%
RS-75-48	48V, 0~1.6A	±1%	200mV	89.5%

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%

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%

Enclosed-G3 Series

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35W — Dual Output

Model No.	Output	Tol.	R&N	Effi.	Max.
RD-35A	5V, 0~4.0A	±2%	80mV	79%	32W
	12V, 0~1.0A	±6%	120mV		
RD-35B	5V, 0~4.0A	±2%	80mV	82%	35W
	24V, 0~1.3A	±5%	120mV		
RD-3513	13.5V, 0~2.0A	±4%	120mV	80%	35W
	-13.5V, 0~0.57A	±4%	120mV		

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

Model No.	Output	Tol.	R&N	Effi.	Max.
RD-50A	5V, 0~6.0A	±2%	80mV	79%	54W
	12V, 0~3.0A	±7%	120mV		
RD-50B	5V, 0~6.0A	±2%	80mV	80%	54W
	24V, 0~2.0A	+8%, -4%	120mV		

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

Model No.	Output	Tol.	R&N	Effi.	Max.
RD-65A	5V, 0~8.0A	±2%	80mV	79%	66W
	12V, 0~4.0A	±6%	120mV		
RD-65B	5V, 0~8.0A	±2%	80mV	78%	68W
	24V, 0~3.0A	+4%, -6%	150mV		

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

Model No.	Output	Tol.	R&N	Effi.	Max.
RD-85A	5V, 0~10A	±2%	80mV	78%	88W
	12V, 0~5.0A	±5%	120mV		
RD-85B	5V, 0~10A	±2%	80mV	80%	88W
	24V, 0~2.5A	±5%	120mV		

125W — Dual Output

Model No.	Output	Tol.	R&N	Effi.	Max.
RD-125A	5V, 0~15A	±5%	80mV	82%	131W
	12V, 0~10A	±7%	120mV		
RD-125B	5V, 0~10A	±5%	80mV	85%	133W
	24V, 0~5.0A	±7%	120mV		

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

Model No.	Output	Tol.	R&N	Effi.	Max.
RD-125-1224	12V, 0~7.0A	±2%	120mV	85%	133W
	24V, 0~5.0A	+8%, -5%	200mV		
RD-125-2412	24V, 0~5.0A	±2%	200mV	85%	133W
	12V, 0~7.0A	±10%	120mV		
RD-125-1248	12V, 0~7.0A	±2%	120mV	86%	138W
	48V, 0~2.5A	+8%, -5%	240mV		
RD-125-4812	48V, 0~2.5A	±2%	240mV	86%	138W
	12V, 0~7.0A	±10%	120mV		
RD-125-2448	24V, 0~4.0A	±1%	200mV	86%	144W
	48V, 0~2.5A	±4%	240mV		
RD-125-4824	48V, 0~2.5A	±1%	240mV	86%	144W
	24V, 0~4.0A	±8%	240mV		
RID-125-1205	12V, 0~10.5A	±2%	120mV	80%	125W
	5V, 0~3.0A	±3%	80mV		
RID-125-2405	24V, 0~5.3A	±2%	120mV	83%	125W
	5V, 0~3.0A	±3%	80mV		

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

Model No.	Output	Tol.	R&N	Effi.	Max.
RQ-50B	5V, 0~6.0A	±2%	80mV	74%	46W
	12V, 0~1.5A	±6%	120mV		
	-5V, 0~1.0A	±3%	100mV		
	-12V, 0~1.0A	±3%	80mV		
RQ-50C	5V, 0~6.0A	±2%	80mV	75%	50W
	15V, 0~1.5A	±6%	120mV		
	-5V, 0~1.0A	±3%	100mV		
	-15V, 0~1.0A	±3%	80mV		
RQ-50D	5V, 0~6.0A	±2%	80mV	79%	53W
	12V, 0~1.5A	±6%	120mV		
	24V, 0~1.0A	+7%, -5%	180mV		
	-12V, 0~1.0A	±3%	80mV		

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

Model No.	Output	Tol.	R&N	Effi.	Max.
RQ-65B	5V, 0~8.0A	±2%	80mV	76%	63W
	12V, 0~3.0A	+9%, -5%	120mV		
	-5V, 0~1.0A	±5%	80mV		
	-12V, 0~1.0A	±5%	80mV		
RQ-65C	5V, 0~8.0A	±2%	80mV	76%	65W
	15V, 0~3.0A	+10%, -4%	120mV		
	-5V, 0~1.0A	±5%	80mV		
	-15V, 0~1.0A	±5%	80mV		
RQ-65D	5V, 0~8.0A	±2%	80mV	78%	68W
	12V, 0~3.0A	±6%	120mV		
	24V, 0~1.5A	±8%	180mV		
	-12V, 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, 0~10A	±2%	80mV	76%	81W
	12V, 0~4.0A	+7%, -3%	120mV		
	-5V, 0~1.0A	±8%	100mV		
	-12V, 0~1.0A	±5%	80mV		
RQ-85C	5V, 0~10A	±2%	80mV	77%	83W
	15V, 0~4.0A	+3%, -7%	120mV		
	-5V, 0~1.0A	±8%	100mV		
	-15V, 0~1.0A	±5%	80mV		
RQ-85D	5V, 0~10A	±2%	80mV	78%	84W
	12V, 0~4.0A	+7%, -3%	120mV		
	24V, 0~1.5A	±8%	150mV		
	-12V, 0~1.0A	±5%	80mV		

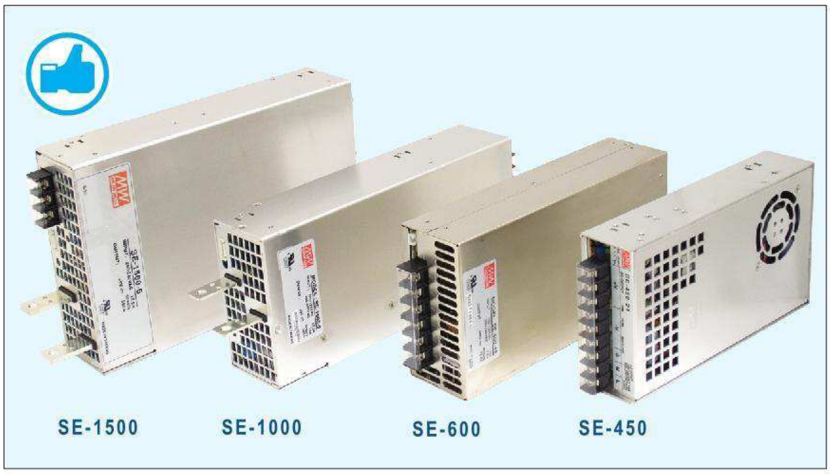
125W — Quad Output (RT-125 without -5V or -12V output)

Model No.	Output	Tol.	R&N	Effi.	Max.
RQ-125B	5V, 0~12A	±2%	80mV	79%	120W
	12V, 0~4.5A	+8%, -3%	120mV		
	-5V, 0~1.0A	+6%, -10%	80mV		
	-12V, 0~1.0A	±5%	80mV		
RQ-125C	5V, 0~12A	±2%	80mV	80%	123W
	15V, 0~4.0A	+8%, -3%	120mV		
	-5V, 0~1.0A	+6%, -10%	80mV		
	-15V, 0~1.0A	±5%	80mV		
RQ-125D	5V, 0~12A	±2%	80mV	82%	124W
	12V, 0~4.0A	+8%, -3%	120mV		
	24V, 0~2.5A	±8%	150mV		
	-12V, 0~1.0A	±5%	80mV		

Enclosed-SE Series

450~1500W Single Output

MEAN WELL



Features

- AC input selectable by switch (SE-600/1000)
  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)
- LED indicator for power on
- 2 years warranty

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

Model No.		SE-450	SE-600	SE-1000	SE-1500
AC input voltage range		115/230VAC by switch			180~264VAC
AC inrush current (max.)		Cold start, 55A at 230VAC	Cold start, 60A at 230VAC	Cold start, 55A at 230VAC	Cold start, 60A at 230VAC
DC adjustment range		±10% rated output voltage			
Overload protection	Range	105%~150%	105%~125%		
	Type	Shut down o/p voltage, re-power on to recover			
Over voltage protection		115%~145%	115%~140% Shut down o/p voltage, re-power on to recover		
Withstand voltage		I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, O/P-FG: 0.5kVAC		I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC	I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, O/P-FG: 0.5kVAC
Working temperature		-10~+60°C	-20~+60°C (refer to output derating curve)		-20~+70°C
Safety standards		UL62368-1, EAC TP TC 004, BSMI CNS14336-1 approved			
EMC standards		EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11	Design refer to EN55032 class B		
Connection		9P/11mm pitch terminal block with cover	Terminal block with cover for input and output (SE-1000/1500: bus bars for output)		
Dimension (LxWxH)(mm)		218x 105x 41	247x 127x 63.5	278x 127x 63.5	278x 177.8x 63.5
Case No.		986A	926A	935B	982A
Packing		12pcs / 16kg	6pcs / 13.4kg	6pcs / 16kg	4pcs / 14.2kg

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%

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%

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%

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%

Enclosed-PFC

600~1000W Single Output

MEAN WELL

Features

- Universal AC input / Full range
- Built-in active PFC function
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Forced air cooling by built-in DC fan
- With DC OK Signal output
- Current sharing up to 2400W(PSP-600); 4000W (PSPA-1000)
- Built-in remote ON-OFF control
- Built-in remote sense function
- 3 years warranty (PSP-600)
  5 years warranty (PSPA-1000)

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

Parallel (PSP-600-15/24/27/48)

Model No.		PSP-600	PSPA-1000
AC input voltage range		88~264VAC ; 124~370VDC	90~264VAC ; 127~370VDC
AC inrush current (max.)		Cold start, 40A at 230VAC	
DC adjustment range		±10% rated output voltage	-8%~+17% rated output voltage
Overload protection	Range	105%~135%	
	Type	Constant current limiting, auto-recovery	
Over voltage protection		115%~140%	120%~137%
Withstand voltage		I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC, 1 minute	
Working temperature		-20~+60°C (refer to output derating curve)	-20~+70°C (refer to output derating curve)
Safety standards		UL62368-1, TUV EN62368-1, EAC TP TC 004, BSMI CNS14336-1 approved; GB4943 approved for PSP-600-15/24/27/48	
EMC standards		EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EAC TP TC 020	
Connection		7+8P / 9.5mm pitch terminal block with cover	
Dimension (LxWxH)(mm)		170x 120x 93	
Case No.		910A	
Packing		1.9Kg ; 8pcs / 15.5kg / 1.06CUFT	

600W PSP-600

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

1000W NEW PSPA-1000

Model No.	Output	Tol.	R&N	Effi.
PSPA-1000-12	12V, 0~80A	±2%	150mV	92.0%
PSPA-1000-15	15V, 0~64A	±1.5%	150mV	93.0%
PSPA-1000-24	24V, 0~42A	±1%	200mV	93.5%
PSPA-1000-48	48V, 0~21A	±1%	250mV	94.0%

Enclosed-PFC

75~200W Low Profile

MEAN WELL

RSP-200 RSP-150 RSP-100 RSP-75

Features

- Ultra low profile: 30mm
- Universal AC input / Full range
- Built-in active PFC function
- Protections: Short circuit / Overload / Over voltage / Over temperature (RSP-100/150/200)
- Cooling by free air convection
- Built-in constant current limiting circuit (RSP-75/100/150)
- Remote ON/OFF control (RSP-75/100/150)
- LED indicator for power on
- 3 years warranty

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

Model No.		RSP-75	RSP-100	RSP-150	RSP-200
AC input voltage range		85~264VAC; 120~370VDC			88~264VAC; 124~370VDC
AC inrush current (max.)		Cold start, 35A at 230VAC	30A at 230VAC	45A at 230VAC	40A at 230VAC
DC adjustment range		-5%~+10% rated output voltage			±10% rated output voltage
Overload protection	Range	105%~135%	105%~150%		
	Type	Constant current limiting, auto-recovery			Hiccup mode, auto-recovery
Over voltage protection	Range	110%~135%			115%~145%
	Type	Shut down O/P voltage, re-power on to recover			
Withstand voltage		I/P-O/P: 4kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC			I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC
Working temperature		-25~+70°C	-30~+70°C (refer to output derating curve)		
Safety standards		UL62368-1, TUV EN62368-1, EN61558-1, EN61558-2-16, CCC GB4943, EAC TP TC 004, BSMI CNS14336-1 approved			UL62368-1, TUV EN62368-1, CCC GB4943, EAC TP TC 004, BSMI CNS14336-1 approved
EMC standards		EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, GB9254, EAC TP TC 020, EN55024			
Connection		5P / 9.5mm pitch terminal block	7P / 9.5mm pitch terminal block		9P / 9.5mm pitch terminal block
Dimension (LxWxH) (mm)		159x97x30	179x99x30	199x99x30	215x115x30

75W RSP-75

Model No.	Output	Tol.	R&N	Effi.
RSP-75-3.3	3.3V, 0~15A	±2%	80mV	76.0%
RSP-75-5	5V, 0~15A	±2%	80mV	82.0%
RSP-75-7.5	7.5V, 0~10A	±2%	80mV	84.0%
RSP-75-12	12V, 0~6.3A	±2%	120mV	85.0%
RSP-75-13.5	13.5V, 0~5.6A	±2%	120mV	85.0%
RSP-75-15	15V, 0~5A	±2%	120mV	86.0%
RSP-75-24	24V, 0~3.2A	±1%	120mV	87.0%
RSP-75-27	27V, 0~2.8A	±1%	120mV	88.0%
RSP-75-48	48V, 0~1.6A	±1%	200mV	89.0%

150W RSP-150

Model No.	Output	Tol.	R&N	Effi.
RSP-150-3.3	3.3V, 0~30A	±2%	100mV	81.5%
RSP-150-5	5V, 0~30A	±2%	100mV	87.0%
RSP-150-7.5	7.5V, 0~20A	±2%	100mV	88.5%
RSP-150-12	12V, 0~12.5A	±2%	100mV	90.0%
RSP-150-13.5	13.5V, 0~11.2A	±2%	100mV	87.5%
RSP-150-15	15V, 0~10A	±2%	100mV	88.5%
RSP-150-24	24V, 0~6.3A	±1%	150mV	89.0%
RSP-150-27	27V, 0~5.6A	±1%	150mV	89.5%
RSP-150-48	48V, 0~3.2A	±1%	250mV	90.0%

100W RSP-100

Model No.	Output	Tol.	R&N	Effi.
RSP-100-3.3	3.3V, 0~20A	±2%	100mV	83.0%
RSP-100-5	5V, 0~20A	±2%	100mV	86.0%
RSP-100-7.5	7.5V, 0~13.5A	±2%	100mV	87.0%
RSP-100-12	12V, 0~8.5A	±1%	100mV	86.0%
RSP-100-13.5	13.5V, 0~7.5A	±1%	100mV	86.5%
RSP-100-15	15V, 0~6.7A	±1%	100mV	87.0%
RSP-100-24	24V, 0~4.2A	±1%	150mV	87.0%
RSP-100-27	27V, 0~3.8A	±1%	150mV	87.0%
RSP-100-48	48V, 0~2.1A	±1%	250mV	88.0%

200W RSP-200

Model No.	Output	Tol.	R&N	Effi.
RSP-200-2.5	2.5V, 0~40A	±2%	100mV	79.5%
RSP-200-3.3	3.3V, 0~40A	±2%	100mV	81.5%
RSP-200-4	4V, 0~40A	±2%	100mV	84.0%
RSP-200-5	5V, 0~40A	±2%	150mV	85.5%
RSP-200-7.5	7.5V, 0~26.7A	±2%	150mV	89.0%
RSP-200-12	12V, 0~16.7A	±1%	150mV	89.0%
RSP-200-13.5	13.5V, 0~14.9A	±1%	150mV	89.0%
RSP-200-15	15V, 0~13.4A	±1%	150mV	89.5%
RSP-200-24	24V, 0~8.4A	±1%	150mV	89.5%
RSP-200-27	27V, 0~7.5A	±1%	200mV	89.0%
RSP-200-36	36V, 0~5.56A	±1%	220mV	90.0%
RSP-200-48	48V, 0~4.2A	±1%	240mV	90.0%

Enclosed-PFC

320~500W Low Profile

MEAN WELL

Features

- 1U low profile
- Universal AC input / Full range
- Built-in active PFC function
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Forced air cooling by built-in DC fan
- Built-in remote sense and ON/OFF control (RSP-500)
- LED indicator for power on
- 3 years warranty

(RSP-320 only)

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

Model No.		RSP-320	RSP-500
AC input voltage range		88~264VAC; 124~370VDC	85~264VAC; 120~370VDC
AC inrush current(max.)		Cold start, 40A at 230VAC	
DC adjustment range		Vo: ±10% by potentiometer	
Overload protection	Range	105%~135%	105%~130%
	Type	Hiccup mode, auto-recovery	Constant current limiting, auto-recovery
Over voltage protection	Range	115%~145%	
	Type	Shut down O/P voltage, re-power on to recover	
Withstand voltage		I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC	
Working temperature		-30~+70°C (refer to output derating curve)	
Safety standards		UL62368-1, TUV EN62368-1, EAC TP TC 004, BSMI CNS14336-1 approved; CCC GB4943 approved for RSP-320 only	
EMC standards		EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EAC TP TC 020, EN61000-6-2(RSP-500), GB9254, GB17625.1(RSP-320 only)	
Connection	Input	9P / 9.5mm pitch terminal block	3P / 9.5mm pitch terminal block
	Output		6P / 11mm pitch terminal block
Dimension (LxWxH) (mm)		215x115x30	230x127x40.5
Case No.		207A	226A

320W RSP-320

Model No.	Output	Tol.	R&N	Effi.
RSP-320-2.5	2.5V, 0~60A	±2%	100mV	75.5%
RSP-320-3.3	3.3V, 0~60A	±2%	100mV	79.5%
RSP-320-4	4V, 0~60A	±2%	100mV	81.0%
RSP-320-5	5V, 0~60A	±2%	150mV	83.0%
*RSP-320-5CC	5V, 0~60A	±2%	150mV	83.0%
RSP-320-7.5	7.5V, 0~40A	±2%	150mV	88.0%
RSP-320-12	12V, 0~26.7A	±1%	150mV	88.0%
RSP-320-13.5	13.5V, 0~23.8A	±1%	150mV	88.0%
RSP-320-15	15V, 0~21.4A	±1%	150mV	88.5%
RSP-320-24	24V, 0~13.4A	±1%	150mV	89.0%
RSP-320-27	27V, 0~11.9A	±1%	200mV	89.0%
RSP-320-36	36V, 0~8.9A	±1%	220mV	89.5%
RSP-320-48	48V, 0~6.7A	±1%	240mV	90.0%

* RSP-320-5CC with conformal coating is suitable for LED moving sign applications, MOQ required.

500W RSP-500

Model No.	Output	Tol.	R&N	Effi.
RSP-500-3.3	3.3V, 0~90A	±2%	120mV	81.0%
RSP-500-4	4V, 0~90A	±2%	120mV	83.0%
RSP-500-5	5V, 0~90A	±2%	150mV	84.0%
RSP-500-12	12V, 0~41.7A	±1%	150mV	88.0%
RSP-500-15	15V, 0~33.4A	±1%	150mV	88.0%
RSP-500-24	24V, 0~21A	±1%	150mV	89.0%
RSP-500-27	27V, 0~18.6A	±1%	150mV	89.5%
RSP-500-48	48V, 0~10.5A	±1%	150mV	90.5%

Enclosed-PFC

100~320W 3~4 Output

MEAN WELL

Features

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Over temperature protection (200~320W built-in, option for 100W and 150W)
- Built-in active PFC function
- Cooling by free air convection (100W)
- Forced air cooling by built-in DC fan (150W / 200W / 320W)
- 3 years warranty

CB CE (except for QP-320)

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

Model No.		TP-100	TP-150 QP-150	QP-200	QP-320
AC input voltage range		90~264VAC; 127~370VDC			
AC inrush current (max.)		Cold start, 50A at 230VAC	Cold start, 40A at 230VAC	Cold start, 50A at 230VAC	Cold start, 45A at 230VAC
DC adjustment range		CH1: -5%~+10% rated output voltage (CH1&2 for QP-150-3x, QP-150-D/F)		CH1&2: -5%~+10% rated output voltage	
Overload protection	Range	105%~150%			
	Type	Hiccup mode, auto-recovery		Constant current limiting, auto-recovery	Fold back current limiting, auto-recovery
Over voltage protection		115%~135% for CH1 or CH1&2			
Withstand voltage		I/P - O/P: 3kVAC, I/P - FG: 2kVAC, O/P - FG:0.5kVAC, 1 minute			
Working temperature		-10~+60°C (refer to output derating curve)			-10~+70°C
Setup, rise, hold up time		800ms, 60ms, 24ms at full load and 30VAC(TP-100/150); 1800ms, 50ms, 24ms at full load and 230VAC (QP-150)		800ms, 50ms, 24ms at full load and 230VAC	800ms, 50ms, 16ms at full load and 230VAC
Safety standards		UL60950-1, TUV EN60950-1 approved			
EMC standards		EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11			
Connection		9P/7.62mm pitch terminal block with cover		9P/9.5mm pitch terminal block with cover	
Dimension (LxWxH)(mm)		199x 99x 50		215x 115x 50	
Case No.		916A	916B	912B	912I

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		

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		
	-5V, 0.0~1.0A	±5%	100mV		
QP-150C	5V, 3.0~15A	±3%	100mV	77%	153W
	15V, 0.4~4.0A	+6%,-10%	150mV		
	-15V, 0.3~2.0A	±8%	150mV		
	-5V, 0.0~1.0A	±5%	100mV		
QP-150D	5V, 3.0~15A	±3%	120mV	78%	150W
	12V, 0.0~5.0A	±3%	150mV		
	24V, 0.4~3.0A	±6%	200mV		
	-12V, 0.0~1.0A	±5%	150mV		
QP-150F	5V, 3.0~15A	±3%	120mV	78%	152W
	15V, 0.0~5.0A	±3%	150mV		
	24V, 0.4~3.0A	±6%	200mV		
	-15V, 0.0~1.0A	±5%	150mV		

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

200W — Quad Output

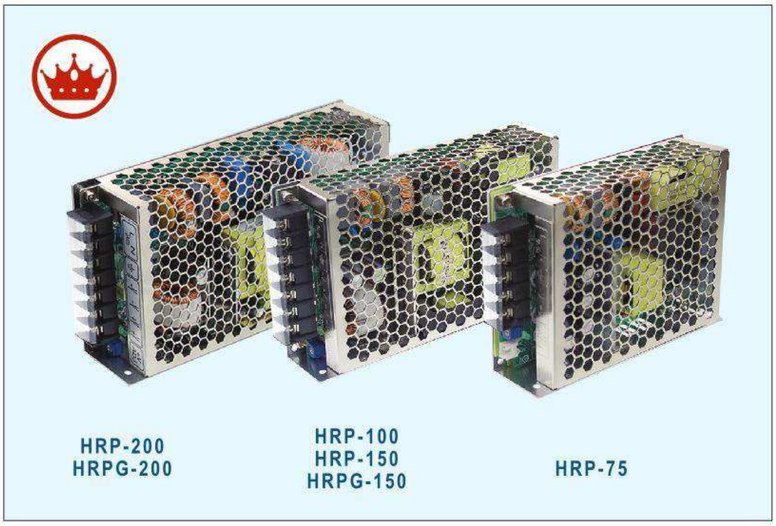
Model No.	Output	Tol.	R&N	Effi.	Max.
QP-200D	5V, 3.0~20A	±3%	100mV	75%	203W
	12V, 0.0~7.0A	±3%	150mV		
	24V, 0.4~6.0A	+10%,-6%	150mV		
	-12V, 0.0~1.0A	±6%	150mV		
QP-200F	5V, 3.0~20A	±3%	100mV	75%	203W
	15V, 0.0~6.0A	±3%	150mV		
	24V, 0.4~6.0A	+10%,-6%	150mV		
	-15V, 0.0~1.0A	±6%	150mV		
QP-200-3A	5V, 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		

320W — Quad Output

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

Enclosed-PFC

75~200W High Reliability



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 temperature (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
- 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%			
Overload protection – 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	-40~+70°C (refer to output derating curve)	-40~+60°C	-40~+70°C	
Safety standards	UL62368-1, TUV EN62368-1, EAC TP TC 004 approved			
EMC standards	EN55032 class B, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3, EN55024, EN61000-6-2 heavy industry level, EAC TP TC 020			
Connection	5P/9.5mm pitch terminal block with cover	7P/9.5mm pitch terminal block with cover		
Dimension (LxWxH)(mm)	129x98x38	159x97x38		199x 98x 38
Case No.	903D	901I		902E

75W 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 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 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 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

Enclosed-PFC

300~1000W High Reliability

MEAN WELL

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 temperature
- 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-600/1000)
- Built-in remote ON/OFF control & 5V / 0.3A standby output (HRPG series)
- Built-in current sharing (HRPG-600-24/36/48; HRPG-1000)
- Forced air cooling by built-in DC fan
- 1U low profile (HRP□-300 / 450)
- 5 years warranty

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

Model No.		HRP□-300	HRP□-450	HRP□-600	HRPG-1000
AC input voltage range		85~264VAC; 120~370VDC			90~264VAC; 127~370VDC
AC inrush current (max.)		Cold start, 70A at 230VAC			Cold start, 40A at 230VAC
DC adjustment range		±15% rated output voltage			-8%~+17% rated output voltage
Overload Protection	Range	105%~135%			
	Type	Constant current limiting, auto-recovery			
Over voltage protection		115%~145%			120%~137%
Withstand voltage		I/P - O/P: 3kVAC, I/P - FG: 2kVAC, O/P - FG: 0.5kVAC, 1 minute			
Working temperature		-40~+70°C (refer to output derating curve)			
Safety standards		UL62368-1, TUV EN62368-1, EAC TP TC 004 approved			
EMC standards		EN55032 class B, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3, EN61000-6-2 heavy industry level, EAC TP TC 020			EN55032 class A, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3, EAC TP TC 020
Connection		7P/11mm pitch terminal block with cover	3+6P/10&11mm pitch terminal block with cover		
Dimension (LxWxH)(mm)		199x105x41	218x105x41	218x105x63.5	
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	80.0%
HRP□-300-5	5V, 0~60A	±2.0%	90mV	82.0%
HRP□-300-7.5	7.5V, 0~40A	±2.0%	100mV	86.0%
HRP□-300-12	12V, 0~27A	±1.0%	120mV	88.0%
HRP□-300-15	15V, 0~22A	±1.0%	150mV	88.0%
HRP□-300-24	24V, 0~14A	±1.0%	150mV	87.0%
HRP□-300-36	36V, 0~9A	±1.0%	250mV	88.0%
HRP□-300-48	48V, 0~7A	±1.0%	250mV	89.0%

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

450W HRP□-450

Model No.	Output	Tol.	R&N	Effi.
HRP□-450-3.3	3.3V, 0~90A	±2%	80mV	80.0%
HRP□-450-5	5V, 0~90A	±2%	80mV	83.0%
HRP□-450-7.5	7.5V, 0~60A	±2%	100mV	86.5%
HRP□-450-12	12V, 0~37.5A	±1%	120mV	88.0%
HRP□-450-15	15V, 0~30A	±1%	150mV	89.0%
HRP□-450-24	24V, 0~18.8A	±1%	150mV	88.0%
HRP□-450-36	36V, 0~12.5A	±1%	240mV	89.0%
HRP□-450-48	48V, 0~9.5A	±1%	240mV	89.5%

□=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

1000W NEW HRPG-1000

Model No.	Output	Tol.	R&N	Effi.
HRPG-1000-12	12V, 0~80A	±2%	150mV	91.5%
HRPG-1000-15	15V, 0~64A	±1.5%	150mV	92.0%
HRPG-1000-24	24V, 0~42A	±1%	200mV	93.0%
HRPG-1000-48	48V, 0~21A	±1%	250mV	94.0%

Enclosed-PFC 750~2000W Programmable High Power

MEAN WELL

Features

- 1U low profile (41mm)
- Universal AC input / Full range
- Built-in active PFC function
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Forced air cooling by built-in DC fan
- High power density up to 25W/in³ (RSP-1600)
- Output voltage programmable
  Constant current level Icc programmable (RSP-750/1600)
- Built-in current sharing up to 4 units (RSP-1000/2000) or 6 units (RSP-1600)
- Built-in remote sense and ON/OFF control
- Built-in auxiliary power, DC OK signal
- OTP alarm signal output (RSP-1600/2000)
- Optional conformal coating
- 5 years warranty

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

Parallel (except for RSP-750)

Model No.		RSP-750	RSP-1000	RSP-1600	RSP-2000
AC input voltage range		90~264VAC; 127~370VDC			90~264VAC; 127~320VDC
AC inrush current (max.)		Cold start, 40A at 230VAC		Cold start, 35A at 230VAC	Cold start, 50A at 230VAC
DC adjustment range		Vo: ±10% by potentiometer, or to 40%~110% of rated output voltage by 2~5.5VDC external control signal Icc : to 40%~110% of rated output current by 2~5.5VDC external control signal	Vo: ±10% by potentiometer, or to 40%~110% of rated output voltage by external resistor or by 2~5.5VDC external control signal	Vo: -1%~+22.5% by potentiometer, or to 40%~125% of rated output voltage by 1~5VDC external control signal Icc: to 20%~100% of rated output current by 1~5VDC external control signal	Vo: ±10% by potentiometer, or to 40%~115% of rated output voltage by 1~4.7VDC external control signal
Overload protection	Range	105%~125%	105%~125%	105%~115%	105%~125%
	Type	Constant current limiting, auto-recovery		Constant current limiting, shut down o/p voltage after 5 sec. , re-power on to recover	
Over voltage protection	Range	115%~145%	115%~135%	130%~155%	120%~145%
	Type	Shut down O/P voltage, re-power on to recover			
Withstand voltage		I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC (O/P-FG: 1.5kVAC for RSP-1600)			
Working temperature		-30~+70°C	-20~+60°C	-30~+70°C	-35~+70°C
Safety standards		UL62368-1, TUV EN62368-1, EAC TP TC 004, BSMI CNS14336-1 approved			
EMC standards		EN55032 class B for RSP-750, class A for RSP-1000/1600/2000; EN61000-3-2,3; EN61000-4-2,3,4,5,6,8,11, EN61204-3			
Connection	Input	3P / 10mm pitch terminal block with cover			
	Output	M5x12 screw terminal		Bus bars	M5x12 screw terminal
Dimension (LxWxH) (mm)		250x127x41	295x 127x 41	300x 85x 41	295x 127x 41
Case No.		212A	952B	237B	952D

750W RSP-750

Model No.	Output	Tol.	R&N	Effi.
RSP-750-5	5V, 0~100A	±2%	150mV	82.0%
RSP-750-12	12V, 0~62.5A	±1%	150mV	87.0%
RSP-750-15	15V, 0~50A	±1%	150mV	89.0%
RSP-750-24	24V, 0~31.3A	±1%	150mV	90.5%
RSP-750-27	27V, 0~27.8A	±1%	150mV	90.5%
RSP-750-48	48V, 0~15.7A	±1%	150mV	92.0%

1600W RSP-1600

Model No.	Output	Tol.	R&N	Effi.
RSP-1600-12	12V, 0~125A	±1%	150mV	89.0%
RSP-1600-24	24V, 0~67A	±1%	200mV	91.5%
RSP-1600-27	27V, 0~59A	±1%	200mV	92.0%
RSP-1600-36	36V, 0~44.5A	±1%	250mV	92.0%
RSP-1600-48	48V, 0~33.5A	±1%	300mV	93.0%

1000W RSP-1000

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

2000W RSP-2000

Model No.	Output	Tol.	R&N	Effi.
RSP-2000-12	12V, 0~100A	±2%	150mV	87.0%
RSP-2000-24	24V, 0~80A	±1%	200mV	90.5%
RSP-2000-48	48V, 0~42A	±1%	300mV	92.0%

Enclosed-PFC 1500~3000W Programmable High Power

MEAN WELL

RSP-2400/3000 RSP-1500

Features

- Universal AC input / Full range (RSP-1500)
  AC input 180~264VAC only (RSP-2400/3000)
- Built-in active PFC function
- Protections:
  Short circuit / Overload / Over voltage /
  Over temperature
- Forced air cooling by built-in DC fan
- Output voltage programmable
- Built-in current sharing up to 4 units (RSP-1500)
  or 3 units (RSP-2400/3000)
- Built-in remote sense and ON/OFF control
- Built-in auxiliary power, DC OK signal
- Optional conformal coating
- 5 years warranty

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

Model No.		RSP-1500	RSP-2400	RSP-3000
AC input voltage range		90~264VAC; 127~370VDC	180~264VAC; 254~370VDC	
AC inrush current (max.)		Cold start, 60A at 230VAC		
DC adjustment range		Vo: -30%~+10% by potentiometer, or to 70%~100% of rated output voltage by external resistor	Vo: ±10% by potentiometer, or to 20%~110% of rated output voltage by 1~5.5VDC external control signal	
Overload protection	Range	105%~135%	100%~112%	
	Type	Constant current limiting, shut off after 5 sec., re-power on to recover	Constant current limiting, shut off after 5 sec., re-power on to recover (can adjust to continuous constant current limiting)	
Over voltage protection	Range	115%~140%		
	Type	Shut down O/P voltage, re-power on to recover		
Withstand voltage		I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC		
Working temperature		-20~+70°C		
Safety standards		UL62368-1, TUV EN62368-1, EAC TP TC 004, BSMI CNS14336-1 approved		
EMC standards		EN55032, EN61000-3-2,3; EN61000-4-2,3,4,5,6,8,11, EN61000-6-2, EN061204-3		
Connection	Input	3P/13mm pitch terminal block with cover		
	Output	Bus bars		
Dimension (LxWxH) (mm)		278x 127x 83.5	278x 177.8x 63.5	
Case No.		943A	982B	

1500W RSP-1500

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

2400W RSP-2400

Model No.	Output	Tol.	R&N	Effi.
RSP-2400-12	12V, 0~166.7A	±1%	150mV	88.0%
RSP-2400-24	24V, 0~100A	±1%	150mV	90.5%
RSP-2400-48	48V, 0~50A	±1%	200mV	91.5%

3000W RSP-3000

Model No.	Output	Tol.	R&N	Effi.
RSP-3000-12	12V, 0~200A	±1%	150mV	87.5%
RSP-3000-24	24V, 0~125A	±1%	150mV	90.0%
RSP-3000-48	48V, 0~62.5A	±1%	200mV	91.5%

Enclosed-PFC 5000~10000W Programmable High Power

RST-5000

RST-10000

Features

- 3ϕ 3-wire/△ 196~305VAC or 3ϕ 4-wire/ Y 340~530VAC wide input range
- Built-in active PFC function
- High efficiency up to 91%
- Protections:
  Short circuit / Overload / Over voltage / Over temperature / Fan alarm
- Forced air cooling by built-in DC fan
- Output voltage and constant current level Icc programmable
- Built-in current sharing up to 20kW
  (4 units of RST-5000 or 2 units of RST-10000)
- Built-in remote sense and ON/OFF control
- Built-in 12V/0.1A auxiliary power
- Alarm signal output
- 5 years warranty

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

Model No.		RST-5000	RST-10000
AC input voltage range		3ϕ 3-wire/△ 196~305VAC or 3ϕ 4-wire/ Y 340~530VAC	
AC inrush current (max.)		Cold start, 75A at 230VAC (3ϕ 3-wire/△) or 50A at 400VAC (3ϕ 4-wire/ Y)	Cold start, 150A at 230VAC (3ϕ 3-wire/△) or 100A at 400VAC (3ϕ 4-wire/ Y)
DC adjustment range		Vo: -2%~+20% by potentiometer or to 20%~120% of rated output voltage by 1~6VDC external control signal Icc: to 20%~100% of rated output current by 1~5VDC external control signal	
Overload protection	Range	100%~112%	
	Type	User adjustable continuous constant current limiting or constant current limiting with delay shutdown after 5 seconds. Re-power on to recover.	
Over voltage protection	Range	125%~140%	
	Type	Shut down O/P voltage, re-power on to recover	
Withstand voltage		I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC	
Working temperature		-30~+70°C (refer to output derating curve)	
Safety standards		UL62368-1, TUV EN62368-1, EAC TP TC 004 approved	
EMC standards		EN55032 class A, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61000-6-2, EN61204-3	
Connection	Input	6P/13mm pitch terminal block with cover	
	Output	Bus bars	
Dimension (LxWxH) (mm)		460x 211x 83.5	540x 424x 83.5
Case No.		223A	234A
Packing		10kg; 1pcs / 10.1kg / 1.15CUFT	23.5kg; 1pcs / 23.5kg / 2.45CUFT

5000W RST-5000

Model No.	Output	Tol.	R&N	Effi.
RST-5000-24	24V, 0~200A	±1%	150mV	89%
RST-5000-36	36V, 0~138A	±1%	200mV	90%
RST-5000-48	48V, 0~105A	±1%	200mV	91%

10000W RST-10000

Model No.	Output	Tol.	R&N	Effi.
RST-10000-24	24V, 0~400A	±1%	150mV	89%
RST-10000-36	36V, 0~276A	±1%	200mV	90%
RST-10000-48	48V, 0~210A	±1%	200mV	91%

SPV-300 SPV-150

Features

- Universal AC input / Full range
- Built-in active PFC function
- Protections:
  Short circuit / Overload / Over voltage / Over temperature
- Output voltage programmable
- Forced air cooling by built-in DC fan (except for SPV-150)
- 3 years warranty

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

Model No.		SPV-150	SPV-300
AC input voltage range		88~264VAC; 124~370VDC	
AC inrush current (max.)		Cold start, 45A at 230VAC	
DC adjustment range		Vo: -15%~+10% by potentiometer or to 20%~110% of rated output voltage by 1~5.5VDC external control signal	
Overload protection	Range	105%~150%	105%~135%
	Type	constant current limiting, auto-recovery	
Over voltage protection	Range	115%~140%	
	Type	shut down O/P voltage, re-power on to recover	
Withstand voltage		I/P - O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC	
Working temperature		-20~+65°C	
Safety standards		UL62368-1, TUV EN62368-1, EAC TP TC 004 approved	
EMC standards		EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EAC TP TC 020	
Dimension (LxWxH) (mm)		215x 115x 50	
Case No.		912L	912G
Packing		1.1kg ; 12pcs / 14kg / 0.92CUFT	

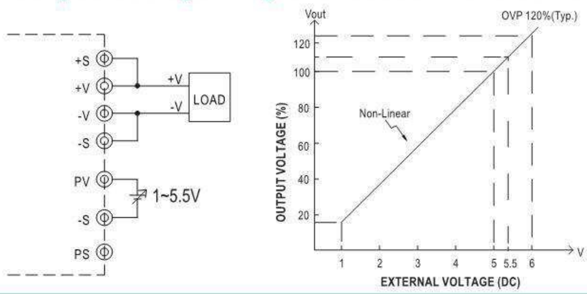
150W SPV-150

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%

300W SPV-300

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%

Output Voltage Programmable for SPV series



Enclosed-PFC 100~300W High Reliability Medical Grade

MSP-300 MSP-200 MSP-100

Features

- Universal AC input / Full range
- Medical safety approved (2xMOOP)
- Withstand 300VAC surge input for 5 seconds
- Built-in active PFC function
- Protections: Short circuit / Overload / Over voltage / Over temperature
- 1U low profile
- Built-in constant current limiting circuit
- Built-in remote sense function (MSP-200/300)
- No load power consumption <0.5W
- Built-in remote ON/OFF control
- Built-in 5V/0.3A standby output (MSP-200/300)
- Built-in DC OK signal (MSP-300)
- LED indicator for power on
- 5 years warranty

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

Model No.		MSP-100	MSP-200	MSP-300
AC input voltage range		85~264VAC; 120~370VDC		
Leakage current		<300μA		<450μA
AC inrush current (max.)		Cold start, 65A at 230VAC	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: 4kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC, 1 minute		
Working temperature		-40~+60°C	-40~+70°C (refer to output derating curve)	
Safety standards		ANSI/AAMI ES60601-1, IEC60601-1, EAC TP TC 004 approved		
EMC standards		EN55011 class B, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3, EN60601-1-2, EAC TP TC 020		
Connection		7P / 9.5mm pitch terminal block with cover		7P / 11mm pitch terminal block with cover
Dimension (LxWxH)(mm)		159x 97x 38	199x 98x 38	199x 105x 41
Case No.		901I	902E	980A

100W MSP-100

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

200W MSP-200

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

300W MSP-300

Model No.	Output	Tol.	R&N	Effi.
MSP-300-3.3	3.3V, 0~60A	±2.5%	80mV	80.0%
MSP-300-5	5V, 0~60A	±2%	90mV	82.0%
MSP-300-7.5	7.5V, 0~40A	±2%	100mV	86.0%
MSP-300-12	12V, 0~27A	±1%	120mV	88.0%
MSP-300-15	15V, 0~22A	±1%	150mV	88.0%
MSP-300-24	24V, 0~14A	±1%	150mV	87.0%
MSP-300-36	36V, 0~9A	±1%	250mV	88.0%
MSP-300-48	48V, 0~7A	±1%	250mV	89.0%

Enclosed-PFC 450~1000W High Reliability Medical Grade

MEAN WELL

Features

- Universal AC input / Full range
- Medical safety approved (2xMOOP)
- Withstand 300VAC surge input for 5 seconds
- Built-in active PFC function
- Protections: Short circuit / Overload / Over voltage / Over temperature
- 1U low profile (MSP-450)
- Built-in constant current limiting circuit
- Built-in remote sense function
- No load power consumption <0.6W for MSP-450; <0.8W for MSP-600/1000; <0.75W for MSP-1000
- Built-in current sharing (MSP-600-24/36/48; MSP-1000)
- Built-in remote ON/OFF control
- Built-in 5V/0.3A standby output
- Built-in DC OK signal
- LED indicator for power on
- 5 years warranty

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

Model No.		MSP-450	MSP-600	MSP-1000
AC input voltage range		85~264VAC; 120~370VDC		90~264VAC; 127~370VDC
Leakage current		<300μA		
AC inrush current (max.)		Cold start, 70A at 230VAC	Cold start, 80A at 230VAC	Cold start, 40A at 230VAC
DC adjustment range		±15% rated output voltage		-8%~+17% rated output voltage
Overload protection	Range	105%~135%		
	Type	Constant current limiting, auto-recovery		
Over voltage protection		115%~145%		120%~137%
Withstand voltage		I/P-O/P: 4kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC, 1 minute		
Working temperature		-40~+70°C (refer to output derating curve)		
Safety standards		ANSI/AAMI ES60601-1, IEC60601-1, EAC TP TC 004 approved		
EMC standards		EN55011 class B for MSP-450/600, EN55032 class A for MSP-1000, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3, EN60601-1-2		
Connection		3+6P / 10 &11mm pitch terminal block with cover		
Dimension (LxWxH)(mm)		218x 105x 41	218x 105x 63.5	
Case No.		995A	977A	

450W — MSP-450

Model No.	Output	Tol.	R&N	Effi.
MSP-450-3.3	3.3V, 0~90A	±2%	80mV	80.0%
MSP-450-5	5V, 0~90A	±2%	80mV	83.0%
MSP-450-7.5	7.5V, 0~60A	±2%	100mV	86.5%
MSP-450-12	12V, 0~37.5A	±1%	120mV	88.0%
MSP-450-15	15V, 0~30A	±1%	150mV	89.0%
MSP-450-24	24V, 0~18.8A	±1%	150mV	88.0%
MSP-450-36	36V, 0~12.5A	±1%	240mV	89.0%
MSP-450-48	48V, 0~9.5A	±1%	240mV	89.5%

600W — MSP-600

Model No.	Output	Tol.	R&N	Effi.
MSP-600-3.3	3.3V, 0~120A	±2%	100mV	78.5%
MSP-600-5	5V, 0~120A	±2%	100mV	82.0%
MSP-600-7.5	7.5V, 0~80A	±2%	100mV	86.0%
MSP-600-12	12V, 0~53A	±1%	120mV	88.0%
MSP-600-15	15V, 0~43A	±1%	150mV	88.0%
MSP-600-24	24V, 0~27A	±1%	150mV	88.0%
MSP-600-36	36V, 0~17.5A	±1%	200mV	89.0%
MSP-600-48	48V, 0~13A	±1%	240mV	89.0%

1000W — NEW MSP-1000

Model No.	Output	Tol.	R&N	Effi.
MSP-1000-12	12V, 0~80A	±2%	150mV	91.5%
MSP-1000-15	15V, 0~64A	±1.5%	150mV	92.0%
MSP-1000-24	24V, 0~42A	±1%	200mV	93.0%
MSP-1000-48	48V, 0~21A	±1%	250mV	94.0%

Enclosed U-bracket-PFC 200~500W Slim Type

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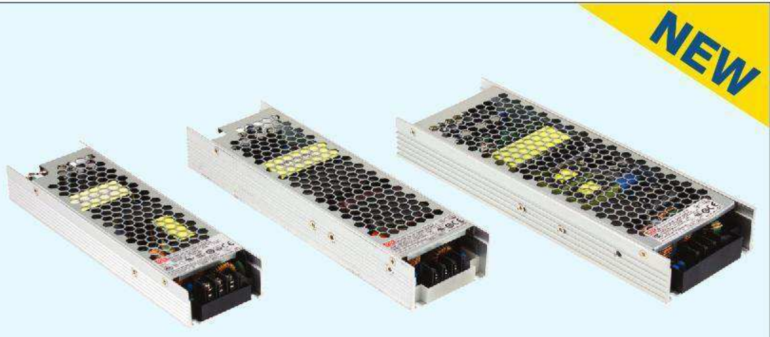

UHP-200 UHP-350 UHP-500

Features

- Universal AC input / Full range
- Withstand 300VAC surge input for 5 seconds
- Slim width and low profile (26mm for UHP-200, 31mm for UHP-350/500)
- Built-in active PFC function
- 150% peak load capacity(100ms)
- Fanless design, cooling by free air convection
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Optional DC OK active signal and redundant function for UHP-200/350/500R
- LED indicator for power on
- 3 years warranty

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

Model No.		UHP-200	UHP-350	UHP-500
AC input voltage range		90~264VAC; 127~370VDC		
AC inrush current (max.)		Cold start, 40A at 115VAC, 80A at 230VAC	Cold start, 30A at 115VAC, 60A at 230VAC	
DC adjustment range		±5% rated output voltage		
Overload protection	Range	110%~140%		
	Type	Hiccup mode, auto-recovery		
Over voltage protection	Range	110%~140%		
	Type	Shut down O/P voltage, re-power on to recover		
Withstand voltage		I/P - O/P: 3.75kVAC, I/P - FG: 2kVAC, O/P - FG: 1.25kVAC		
Working temperature		-30~+70°C (refer to output derating curve)		-20~+70°C (refer to output derating curve)
Vibration		10~500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes		
Safety standards		UL62368-1, TUV EN62368-1, EN60335-1(except for UHP-500), GB4943, EAC TP TC 004, BSMI CNS14336-1 approved		
EMC standards		EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, GB9254, EN61000-6-2(EN50082-2)		
Dimension (LxWxH)(mm)		194x 55x 26	220x 62x 31	233x 81x 31

200W UHP-200

Model No.	Output	Tol.	R&N	Effi.
UHP-200□-3.3	3.3V, 0~40A	±2%	150mV	89%
UHP-200□-4.2	4.2V, 0~40A	±2%	150mV	90%
UHP-200□-5	5V, 0~40A	±2%	200mV	91%
UHP-200□-12	12V, 0~16.7A	±1%	240mV	93%
UHP-200□-15	15V, 0~13.4A	±1%	240mV	94%
UHP-200□-24	24V, 0~8.4A	±1%	240mV	94%
UHP-200□-36	36V, 0~5.6A	±1%	240mV	94%
UHP-200□-48	48V, 0~4.2A	±1%	300mV	94%

□=blank, R; blank: enclosed, R: DC OK signal, redundant function

350W UHP-350

Model No.	Output	Tol.	R&N	Effi.
UHP-350□-3.3	3.3V, 0~60A	±2%	150mV	88.5%
UHP-350□-4.2	4.2V, 0~60A	±2%	150mV	89%
UHP-350□-5	5V, 0~60A	±2%	200mV	90%
UHP-350□-12	12V, 0~29.2A	±1%	200mV	91%
UHP-350□-15	15V, 0~23.4A	±1%	200mV	92%
UHP-350□-24	24V, 0~14.6A	±1%	240mV	94%
UHP-350□-36	36V, 0~9.75A	±1%	240mV	94%
UHP-350□-48	48V, 0~7.3A	±1%	240mV	94%

□=blank, R; blank: enclosed, R: DC OK signal, redundant function

500W UHP-500

Model No.	Output	Tol.	R&N	Effi.
UHP-500□-4.2	4.2V, 0~90A	±2%	200mV	89%
UHP-500□-5	5V, 0~90A	±2%	200mV	90%
UHP-500□-12	12V, 0~41.7A	±1%	200mV	94%
UHP-500□-15	15V, 0~33.4A	±1%	200mV	94%
UHP-500□-24	24V, 0~20.9A	±1%	240mV	94.5%
UHP-500□-36	36V, 0~13.9A	±1%	360mV	95%
UHP-500□-48	48V, 0~10.45A	±1%	360mV	95%

□=blank, R; blank: enclosed, R: DC OK signal, redundant function

UHP-1500/2300/3500 Series

1500~3500W Slim Type Power Supply

Under Development

- Universal AC input / Full range
- Withstand 300VAC surge input for 5 seconds
- Built-in active PFC function
- Fanless design, cooling by free air convection
- Output voltage and current programmable
- Built-in CANBus protocol
- Highly effective heat dissipation by water cooling (UHP-2300/3500)
- Protections: Short circuit / Overload / Over voltage / Over temperature
- 1U low profile
- Design refer to IEC/EN/UL62368-1
- Output models: 24V / 48V / 100V
- Dimension(LxWxH): 310x 115x 41mm (UHP-1500), 310x 140x 60mm (UHP-2300), 380x 140x 60mm (UHP-3500)
- 3 years warranty

Enclosed U-bracket-PFC 750~1000W Slim Type

Features

- Universal AC input / Full range
- Withstand 300VAC surge input for 5 seconds
- Slim width and low profile(41mm)
- Built-in active PFC function
- Fanless design, cooling by free air convection
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Output voltage and current programmable(UHP-1000)
- Built-in remote ON-OFF control(UHP-1000)
- DC ok active signal
- LED indicator for power on
- 3 years warranty

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

Model No.		UHP-750	UHP-1000
AC input voltage range		90~264VAC; 127~370VDC	
AC inrush current (max.)		Cold start, 20A at 115VAC, 40A at 230VAC	
DC adjustment range		0~20% rated output voltage	
Overload protection	Range	105%~125%	
	Type	Hiccup mode, auto-recovery	Constant current limiting, auto-recovery
Over voltage protection	Range	120%~135%	
	Type	Shut down O/P voltage, re-power on to recover	
Withstand voltage		I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 1.25kVAC, 1 minute	
Working temperature		-30~+70°C (refer to output derating curve)	
Vibration		10~500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes	
Safety standards		EN62368-1, UL62368-1, EAC TP TC 004 approved; EN60335-1, EN61558-1(UHP-1000) approved	
EMC standards		EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11	
Dimension (LxWxH)(mm)		237x 100x 41	240x 115x 41

750W UHP-750

Model No.	Output	Tol.	R&N	Effi.
UHP-750-12	12V, 0~60A	±1%	150mV	94.5%
UHP-750-24	24V, 0~31.3A	±1%	200mV	95%
UHP-750-36	36V, 0~21A	±1%	250mV	95%
UHP-750-48	48V, 0~15.7A	±1%	250mV	96%

1000W UHP-1000

Model No.	Output	Tol.	R&N	Effi.
UHP-1000-12	12V, 0~80A	±1%	150mV	94.5%
UHP-1000-24	24V, 0~42A	±1%	150mV	95%
UHP-1000-36	36V, 0~28A	±1%	200mV	95%
UHP-1000-48	48V, 0~21A	±1%	250mV	96%

U-bracket-PFC

150~500W Single Output

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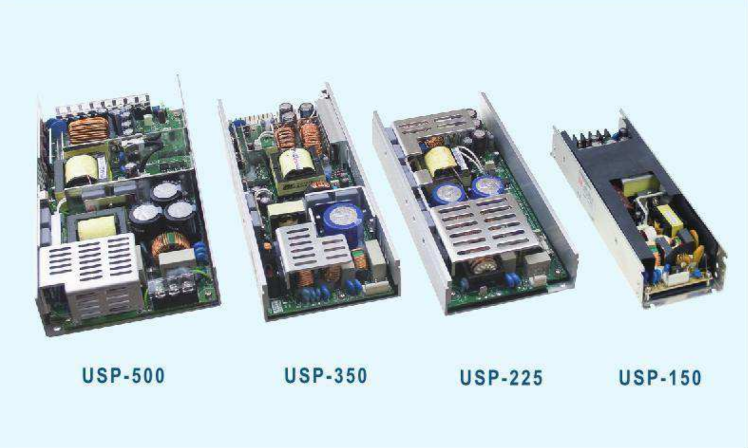


Features

- Universal AC input / Full range
- Built-in active PFC function
- 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
- U-bracket low profile: 33mm(USP-150); 38mm(USP-225/350); 41mm(USP-500)
- Built-in remote ON/OFF control, remote sense, DC OK signal (USP-500)
- Optional current sharing(1+1) for USP-500-24/48
- 3 years warranty

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

Model No.		USP-150	USP-225	USP-350	USP-500
AC input voltage range		90~295VAC; 127~417VDC	90~264VAC; 127~370VDC		
AC inrush current (max.)		Cold start, 65A at 230VAC	15A at 115VAC, 35A at 230VAC	22A at 115VAC, 44A at 230VAC	30A at 115VAC, 50A at 230VAC
DC adjustment range		±10% rated output voltage			
Overload protection	Range	110%~160%	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	Shut off, AC recycle to re-start		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		-30~+65°C	-20~+65°C	-10~+65°C	-20~+70°C
Vibration		10~500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes			
Safety standards		UL62368-1, TUV EN62368-1(except for USP-150), EAC TP TC 040 approved			
EMC standards		EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EAC TP TC 020			
Connection		JST: SVH-21T-P1.1, 4P/7.62mm pitch terminal block	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)		215x 67.4x 33	202x 101.5x 38	235.2x 101.5x 38	254x 127x 41

USP-150 Series

Model No.	Output	Tol.	R&N	Effi.
USP-150-12	12V, 0~12.5A	±2%	100mV	91.5%
USP-150-15	15V, 0~10.0A	±2%	150mV	91.5%
USP-150-24	24V, 0~6.30A	±2%	150mV	93.0%
USP-150-36	36V, 0~4.20A	±2%	250mV	93.0%
USP-150-48	48V, 0~3.20A	±2%	250mV	93.0%

USP-350 Series

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%

USP-225 Series

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%

USP-500 Series

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
- Built-in active PFC function
- High efficiency, up to 94.5% (48VDC)
- High power density 37W/in^3
- Air cooling by built-in DC fan
- PV (Programmable voltage)and PC (Programmable constant current) functions
- Active current sharing, up to 16000W (5 units) in parallel
- I^{2}C interface, support optional PMBus & CANBus protocol
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Optional conformal coating
- 5 years warranty

Order Information

DPU-3200- 24 □

- □ : Communication protocol option { Blank: Standard; PM: PMBus; CAN: CANBus }
- 24 : Output voltage (24V/48V)
- 3200 : Output wattage
- DPU : Series name

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

Parallel PFC c UL us TUV EAC CB CE

Model No.	DPU-3200
AC input voltage range	90-264VAC, 127~370VDC
AC inrush current (max.)	17A/230VAC, COLD START
DC adjustment range	24V: 23.5-30V; 48V: 47.5-58.8V
Over voltage protection	24V: 31.5-37.5V; 48V: 63-75V
Withstand voltage	I/P-O/P: 3KVAC; I/P-FG: 2KVAC; O/P-FG: 1.5KVAC
Working temperature	-30-+70°C (refer to output derating curve)
Safety standards	UL62368-1, TUV EN62368-1, EAC TP TC 004 approved
EMC standards	Compliance with EN55032 (CISPR32) Conduction Class B, Radiation Class A; EN61000-3-2,3, EN61000-4-2,3,4,6,8,11, EN61000-6-2, EAC TP TC 020
Connection	Bus Bar
Dimension (LxWxH) (mm)	325.8x 107x 41
Case No.	256

Model No.	Output	Efficiency
DPU-3200-24	24V, 0-110A	93.5%
DPU-3200-48	48V, 0-55A	94.5%

Features

- Isolation Class II
- Universal AC input / Full range (277VAC operational)
- No load power consumption<0.3W
- Compact size with 1SU~4SU width
- Class 2 power unit / Pass LPS
- Protections: Short circuit / Overload / Over voltage
- Can be installed on DIN rail TS-35 / 7.5 or 15
- Cooling by free air convection
- DC output voltage adjustable
- LED indicator for power on
- Suitable for building automation and control of household appliance
- 3 years warranty

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

Model No.		HDR-15	HDR-30	HDR-60
AC input voltage range		85~264VAC (277VAC operational); 120~370VDC (390VDC operational)		
AC inrush current (max.)		Cold start, 45A at 230VAC		Cold start, 60A at 230VAC
DC adjustment range		5V: 4.5~5.5V, 12V: 10.8~13.8V, 15V: 13.5~18V, 24V: 21.6~29V, 48V: 43.2~55.2V		
Overload protection	Range	110%~145%	105%~160%	
	Type	constant current limiting, auto-recovery		
Over voltage protection	Range	115%~150% rated output voltage		
	Type	Shut off, clamp by zener diode	Shut down, re-power on to recover	
Withstand voltage		I/P-O/P: 4kVAC		
Working temperature		-30~+70°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		UL62368-1, UL508, TUV EN61558-2-16, IEC62368-1, EAC TP TC 040, BSMI CNS14336-1 approved		
EMC standards		EN55032 class B, EN61000-3-2,3, EN61000-6-2, EN61000-4-2,3,4,5,6,8,11, 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)		17.5x 90x 54.5	35x 90x 54.5	52.5x 90x 54.5
Packing		160pcs / 13.5kg	96pcs / 12.5kg	60pcs / 12.4kg

15W — HDR-15

Model No.	Output	Tol.	R&N	Effi.
HDR-15-5	5V, 0~2.40A	±2%	80mV	80%
HDR-15-12	12V, 0~1.25A	±1%	120mV	85%
HDR-15-15	15V, 0~1.00A	±1%	120mV	85.5%
HDR-15-24	24V, 0~0.63A	±1%	150mV	86%
HDR-15-48	48V, 0~0.32A	±1%	240mV	87%

60W — HDR-60

Model No.	Output	Tol.	R&N	Effi.
HDR-60-5	5V, 0~6.5A	±2%	80mV	85%
HDR-60-12	12V, 0~4.5A	±1%	120mV	88%
HDR-60-15	15V, 0~4.0A	±1%	120mV	89%
HDR-60-24	24V, 0~2.5A	±1%	150mV	90%
HDR-60-48	48V, 0~1.25A	±1%	240mV	91%

30W — HDR-30

Model No.	Output	Tol.	R&N	Effi.
HDR-30-5	5V, 0~3.0A	±2%	80mV	82%
HDR-30-12	12V, 0~2.0A	±1%	120mV	88%
HDR-30-15	15V, 0~2.0A	±1%	120mV	89%
HDR-30-24	24V, 0~1.5A	±1%	150mV	89%
HDR-30-48	48V, 0~0.75A	±1%	240mV	90%

NEW
HDR-100

NEW
HDR-150

Features

- Isolation Class II
- Universal AC input / Full range (277VAC operational)
- No load power consumption<0.3W
- Compact size with 4SU~6SU width
- Class 2 power unit / Pass LPS (HDR-100 only)
- Over voltage category III
- Protections: Short circuit / Overload / Over voltage
- Can be installed on DIN rail TS-35 / 7.5 or 15
- Cooling by free air convection
- DC output voltage adjustable
- LED indicator for power on
- Suitable for building automation and control of household appliance
- 3 years warranty

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

Model No.		HDR-100☐	HDR-150
AC input voltage range		85~264VAC (277VAC operational); 120~370VDC (390VDC operational)	
AC inrush current (max.)		Cold start, 70A at 230VAC	
DC adjustment range		**HDR-100** 12V: 12~13V, 15V: 15~17V, 24V: 24~25.5V, 48V: 48~48.7V **HDR-100-N** 12V: 12~13.8V, 15V: 13.8~18V, 24V: 21.6~29V, 48V: 43.2~55.2V	12V: 10.8~13.8V 15V: 13.8~18V 24V: 21.6~29V 48V: 43.2~55.2V
Overload protection	Range	HDR-100: 102%~110%; HDR-100-xxN: 105%~150%	105%~180%
	Type	constant current limiting, auto-recovery	
Over voltage protection	Range	125%~155% rated output voltage	
	Type	Shut down, re-power on to recover	
Withstand voltage		I/P-O/P: 3kVAC	
Working temperature		-30~+70°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		UL62368-1, UL508, TUV EN61558-2-16, IEC62368-1, BSMI CNS14336, AS/NZS60950.1 approved	
EMC standards		EN55032 class B, EN61000-3-2,3, EN61000-6-2, EN61000-4-2,3,4,5,6,8,11, CNS13438, EN61204-3	
Connection		I/P: 2 poles, O/P: 4 poles screw DIN terminal	
Dimension (WxHxD)(mm)		70x 90x 54.5	105x 90x 54.5
Packing		48pcs / 14kg	

100W — NEW HDR-100

Model No.	Output	Tol.	R&N	Effi.
HDR-100-12	12V, 0~7.1A	±2%	120mV	88%
HDR-100-12N	12V, 0~7.5A	±2%	120mV	88%
HDR-100-15	15V, 0~6.13A	±1%	120mV	89%
HDR-100-15N	15V, 0~6.5A	±1%	120mV	89%
HDR-100-24	24V, 0~3.83A	±1%	150mV	90%
HDR-100-24N	24V, 0~4.2A	±1%	150mV	90%
HDR-100-48	48V, 0~1.92A	±1%	240mV	90%
HDR-100-48N	48V, 0~2.1A	±1%	240mV	90%

HDR-100: 92W max., pass LPS
HDR-100-xxN: 100W max., non-LPS with a wide output adjustable range

150W — NEW HDR-150

Model No.	Output	Tol.	R&N	Effi.
HDR-150-12	12V, 0~12.5A	±2%	120mV	88%
HDR-150-15	15V, 0~10A	±1%	120mV	89%
HDR-150-24	24V, 0~6.25A	±1%	150mV	90%
HDR-150-48	48V, 0~3.2A	±1%	240mV	90%

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

EDR-75 EDR-120 EDR-150

Features

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- DC output voltage adjustable
- Can be installed on DIN rail TS-35 / 7.5 or 15
- UL508 (industrial control equipment) listed
- EN61000-6-2 (EN50082-2) industrial immunity level
- Low cost
- 2 years warranty

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

Model No.		EDR-75	EDR-120	EDR-150
AC input voltage range		90~264VAC; 127~370VDC		
AC inrush current (max.)		Cold start, 35A at 230VAC		
DC adjustment range		12V: 12~14V, 24V: 24~28V, 48V: 48~55V		
Overload protection	Range	105%~130%		
	Type	Constant current limiting, auto-recovery		
Over voltage protection	Range	12V: 14~17V, 24V: 29~33V, 48V: 56~65V		24V: 29~33V
	Type	Shut down o/p voltage, re-power on to recover		
Over temperature protection		Shut down o/p voltage, re-power on to recover		
Withstand voltage		I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC		
Working temperature		-20~+60°C (refer to output derating curve)		
Safety standards		UL508, TUV EN62368-1, EAC TP TC 004, BSMI CNS14336-1 approved		
EMC standards		EN55032 classA, EN61000-3-2(125W for EDR-150),3, EN61000-4-2,3,4,5,6,8,11, EN61000-6-2(EN50082-2), EAC TP TC 020, CNS13438		
Connection (screw DIN terminal)		I/P: 3 poles, O/P: 4 poles		
Dimension (WxHxD)(mm)		32x 125.2x 102	40x 125.2x 113.5	
Case No.		221B	992D	

75W — EDR-75

Model No.	Output	Tol.	R&N	Effi.
EDR-75-12	12V, 0~6.3A	±2.0%	80mV	85.5%
EDR-75-24	24V, 0~3.2A	±1.0%	120mV	87.5%
EDR-75-48	48V, 0~1.6A	±1.0%	150mV	88.5%

150W — EDR-150

Model No.	Output (230VAC/115VAC)	Tol.	R&N	Effi.
EDR-150-24	24V, 0~6.5A / 0~5.2A	±1.0%	150mV	87%

120W — EDR-120

Model No.	Output	Tol.	R&N	Effi.
EDR-120-12	12V, 0~10A	±2.0%	100mV	85.0%
EDR-120-24	24V, 0~5A	±1.0%	120mV	87.5%
EDR-120-48	48V, 0~2.5A	±1.0%	150mV	88.5%

EDR vs. NDR

Difference / Series	EMI	Working Temp.	Warranty
EDR	Class A	-20~+60°C	2 years
NDR	Class B	-20~+70°C	3 years

DIN Series

75~480W Slim and Economical

MEAN WELL

Features

- Universal AC input / Full range
- Built-in active PFC function(NDR-240/480)
- High efficiency up to 92.5%
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- DC output voltage adjustable
- Can be installed on DIN rail TS-35 / 7.5 or 15
- UL508 (industrial control equipment) listed
- EN61000-6-2 (EN50082-2) industrial immunity level
- 3 years warranty

(NDR-240/480 only) (NDR-240/480 only)

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

Model No.		NDR-75	NDR-120	NDR-240	NDR-480
AC input voltage range		90~264VAC; 127~370VDC			
AC inrush current (max.)		Cold start, 35A at 230VAC			
DC adjustment range		12V: 12~14V, 24V: 24~28V, 48V: 48~55V			
Overload protection	Range	105%~130%			
	Type	Constant current limiting, auto-recovery			Constant current limiting, shut off after 3 sec., re-power on to recover
Over voltage protection	Range	12V: 14~17V, 24V: 29~33V, 48V: 56~65V			
	Type	Shut down o/p voltage, re-power on to recover			
Over temperature protection		Shut down o/p voltage, re-power on to recover		Shut down o/p voltage, auto-recovery	
Withstand voltage		I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC			
Working temperature		-20~+70°C (refer to output derating curve)			
Safety standards		UL508, TUV EN62368-1, EAC TP TC 004, BSMI CNS14336-1(NDR-240/480) approved			
EMC standards		EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61000-6-2(EN50082-2), EN61204-3, EAC TP TC 020			
Connection (screw DIN terminal)		I/P: 3 poles, O/P: 4 poles			
Dimension (WxHxD)(mm)		32x 125.2x 102	40x 125.2x 113.5	63x 125.2x 113.5	85.5x 125.2x 128.5
Case No.		221B	992D	979C	984D
Packing		28pcs / 15.3kg	20pcs / 13kg	12pcs / 13kg	8pcs / 15.4kg

75W — NDR-75

Model No.	Output	Tol.	R&N	Effi.
NDR-75-12	12V, 0~6.3A	±2.0%	80mV	85.5%
NDR-75-24	24V, 0~3.2A	±1.0%	150mV	88.0%
NDR-75-48	48V, 0~1.6A	±1.0%	240mV	89.0%

120W — NDR-120

Model No.	Output	Tol.	R&N	Effi.
NDR-120-12	12V, 0~10A	±2.0%	100mV	85.5%
NDR-120-24	24V, 0~5A	±1.0%	120mV	88.0%
NDR-120-48	48V, 0~2.5A	±1.0%	150mV	89.0%

240W — NDR-240

Model No.	Output	Tol.	R&N	Effi.
NDR-240-24	24V, 0~10A	±1.0%	150mV	88.5%
NDR-240-48	48V, 0~5A	±1.0%	150mV	90.0%

480W — NDR-480

Model No.	Output	Tol.	R&N	Effi.
NDR-480-24	24V, 0~20A	±1.0%	150mV	92.5%
NDR-480-48	48V, 0~10A	±1.0%	150mV	92.5%

DIN Series

10~96W Ultra Slim

MEAN WELL

MDR-10 MDR-20 MDR-40 MDR-60 MDR-100

Features

- Universal AC input / Full range
- Installed on DIN rail TS-35 / 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
- Built-in active PFC and over temp. protection (MDR-100)
- Class I, Div 2 Hazardous Locations T4(MDR-40/60)
- DC OK signal output (MDR-10/20);
  DC OK relay contact (MDR-40/60/100)
- Cooling by free air convection
- DC output voltage adjustable (MDR-20~100)
- 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, 120ms	500ms, 30ms, 50ms			3000ms, 50ms, 50ms
Withstand voltage	I/P-O/P:3kVAC, I/P-FG:2kVAC, 1minute				
Working temperature	-20~+70°C (refer to output derating curve)				-10~+60°C
DC OK signal	Open collector		Relay contact		
Safety standards	UL508, TUV EN62368-1, EAC TP TC 004, BSMI CNS14336-1 approved; MDR-40/60 also approved for UL62368-1, ANSI/ISA 12.12.01-2013 Class I, Div. 2 Group A, B, C, D Hazardous Locations T4				
EMC standards	EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, CNS13438, 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)	22.5x90x100		40x90x100		55x90x100
Packing	72pcs / 11.8kg	72pcs / 13.2kg	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	83%
MDR-100-24	24V, 0~4.0A	±1%	150mV	86%
MDR-100-48	48V, 0~2.0A	±1%	200mV	87%

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

DIN Series

75~960W Slim and High Efficiency

MW MEAN WELL

SDR-75 SDR-120 SDR-240 SDR-480 P SDR-960

Features

- High efficiency up to 94%
- Universal AC input / Full range (SDR-75/120/240/480); AC input 180~264VAC only (SDR-960)
- Built-in active PFC function (SDR-120/240/480/960)
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- DC output voltage adjustable
- 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 (except for SDR-75)
- 150% peak load capability (SDR-75/120/240/480)
  130% peak load capability (SDR-960)
- Current sharing up to 3840W (7+1) for SDR-480P
  Current sharing up to 3840W (3+1) for SDR-960
- Comply with GL (SDR-120/240/480)
  Comply with SEMI F47 (SDR-75/120/240/480)
- 3 years warranty

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

Model No.	SDR-75	SDR-120	SDR-240	SDR-480□	SDR-960
AC input voltage range	88~264VAC; 124~370VDC			90~264VAC; 127~370VDC	180~264VAC; 254~370VDC
AC inrush current (max.)	Cold start, 50A at 230VAC	Cold start, 70A at 230VAC	Cold start, 55A at 230VAC	Cold start, 80A at 230VAC	Cold start, 50A at 230VAC
DC adjustment range	12V: 12~14V (only for SDR-75/120), 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 (re-power on to recover for SDR-75)				Normally works within 105%~130% rated output power for 3 seconds and then shut down o/p voltage with auto-recovery after 30 seconds if the peak load condition is removed
	>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				Constant current limiting within 130%~150% rated output power for more than 3 seconds and then shut down o/p voltage, re-power on to recover
Over voltage protection — Range	14~17V for 12V model(SDR-75/120), 29~33V for 24V model, 56~65V for 48V model				
Over voltage protection — Type	Shut down o/p voltage, re-power on to recover		Shut down o/p voltage with auto-recovery, or re-power on to recover		
Over temperature protection	Re-power on to recover	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 (except for SDR-75)				
Working temperature	-30~+70°C	-25~+70°C (refer to output derating curve)			-30~+70°C
Safety standards	UL508, TUV EN62368-1, GL (SDR-120/240/480), EAC TP TC 040, BSMI CNS14336-1(SDR-120/240/480/960) approved				
EMC standards	EN55011(SDR-120/240/480), EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EAC TP TC 020, EN61000-6-2 (EN50082-2), EN61204-3; SEMI (SDR-75/120/240/480), GL (SDR-120/240/480)				
Connection (screw DIN terminal)	I/P: 3 poles, O/P: 4 poles		I/P: 3 poles, O/P: 6 poles	I/P: 3 poles, O/P: 8 poles	I/P:3 poles, O/P: 6 poles
Dimension (WxHxD)(mm)	32x125.2x102	40x125.2x113.5	63x125.2x113.5	85.5x125.2x128.5	110x125.2x150

SDR-75 Series

Model No.	Output	Tol.	R&N	Effi.
SDR-75-12	12V, 0~6.3A	±1.0%	100mV	88.5%
SDR-75-24	24V, 0~3.2A	±1.0%	100mV	89.0%
SDR-75-48	48V, 0~1.6A	±1.0%	120mV	90.0%

SDR-120 Series

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%

SDR-240 Series

Model No.	Output	Tol.	R&N	Effi.
SDR-240-24	24V, 0~10A	±1.0%	50mV	94%
SDR-240-48	48V, 0~5A	±1.0%	50mV	94%

SDR-480 Series

Model No.	Output	Tol.	R&N	Effi.
SDR-480□-24	24V, 0~20A	±1.2%	100mV	94%
SDR-480□-48	48V, 0~10A	±1.0%	120mV	94%

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

SDR-960 Series

Model No.	Output	Tol.	R&N	Effi.
SDR-960-24	24V, 0~40A	±1.0%	180mV	94%
SDR-960-48	48V, 0~20A	±1.0%	250mV	94%

DIN Series

240~960W Slim 3-phase High Input Voltage

MEAN WELL

NEW NEW

TDR-960 TDR-480 TDR-240

Features

- 3-phase, 340~550VAC wide range input (2-phase operation possible)
- Slim width
- Built-in active PFC function (TDR-480/960)
- High efficiency up to 94.5%
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- DC output voltage adjustable
- Built-in constant current limiting circuit
- 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
- Current sharing up to 3840W(3+1) for TDR-960
- Built-in DC OK relay contact (optional for TDR-480)
- 3 years warranty

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

Model No.	TDR-240	TDR-480	TDR-960
AC input voltage range	3-phase 340~550VAC (2-phase operation possible), 480~780VDC		
AC input current (Typ.)	0.95A / 400VAC, 0.75A / 500VAC	0.85A / 400VAC, 0.7A / 500VAC	2.0A / 400VAC, 1.4A / 500VAC
AC inrush current (max.)	Cold start, 50A at 400VAC		Cold start, 60A at 400VAC
DC adjustment range	24V: 24~28V, 48V: 48~55V		
Overload protection	105%~130% rated output power, constant current limiting, unit will shut down after 3 sec., re-power on to recover		
Over voltage protection — Range	29~33V for 24V model, 56~65V for 48V model		
Over voltage protection — Type	Shut down o/p voltage, re-power on to recover		
Over temperature protection	Shut down o/p voltage, auto-recovery after temperature goes down		
Withstand voltage	I/P-O/P:4.8kVAC I/P-FG:2.4kVAC O/P-FG:0.5kVAC O/P-DC OK: 0.5kVAC	I/P-O/P:3kVAC I/P-FG:2kVAC O/P-FG:0.5kVAC O/P-DC OK: 0.5kVAC(TDR-960; optional for TDR-480)	
Working temperature	-30~+70°C (refer to output derating curve)		
Safety standards	UL508, EN61558-2-16 approved	UL508, EAC TP TC 004 approved	
EMC standards	EN55032 class B, EN55032 class B(TDR-480 only), EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61204-3, heavy industry level, EAC TP TC 020(TDR-480/960 only)		
Connection (screw DIN terminal)	I/P: 4 poles, O/P: 4 poles		I/P: 4 poles, O/P: 6 poles
Case No.	979C	984E	214A
Dimension (WxHxD)(mm)	63x 125.2x 113.5	85.5x 125.2x 128.5	110x 125.2x 150

TDR-240 Series

NEW CB CE

Model No.	Output	Tol.	R&N	Effi.
TDR-240-24	24V, 0~10A	±1.0%	150mV	92%
TDR-240-48	48V, 0~5A	±1.0%	150mV	92%

TDR-960 Series

Parallel EAC CB CE

Model No.	Output	Tol.	R&N	Effi.
TDR-960-24	24V, 0~40A	±1.0%	180mV	94.0%
TDR-960-48	48V, 0~20A	±1.0%	250mV	94.5%

TDR-480 Series

NEW EAC CB CE

Model No.	Output	Tol.	R&N	Effi.
TDR-480-24	24V, 0~20A	±1.0%	150mV	92.5%
TDR-480-48	48V, 0~10A	±1.0%	150mV	93%

DIN Series

120~960W High Input Voltage

MEAN WELL

Features

- Input 340~550VAC, 3-phase (2-phase for DRH-120)
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Built-in constant current limiting circuit
- Cooling by free air convection
- DC output voltage adjustable
- Can be installed on DIN rail TS-35 / 7.5 or 15
- UL508 (industrial control equipment) listed (240~960W)
- EN61000-6-2 (EN50082-2) industrial immunity level
- Optional parallel function (1+1) (960W only)
- 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, 2-phase	340~550VAC, 3-phase (two 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: 2kVAC, O/P - FG: 0.5kVAC, 1 minute			
Working temperature		-20~+60°C	-20~+70°C		-20~+60°C
Safety standards		UL62368-1, EAC TP TC 004 approved	UL508, UL62368-1, TUV EN60950-1, EAC TP TC 004 approved		
EMC standards		EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61204-3, EAC TP TC 020, 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)		65.5x125.2x100	125.5x125.2x100	227x125.2x100	276x125.2x100
Case No.		921A	922A	930A	934
Packing		20pcs / 16.0kg	12pcs / 16.6kg	6pcs / 16.0kg	4pcs / 14.2kg

DRH-120 (2-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-240 (3-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-480 (3-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-960 (3-Phase)

Parallel

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%

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.

DIN Series 120~480W Slim and Wide Input Range

MEAN WELL

Features

- Single and two phase wide input range 180~550VAC
- Built-in active PFC function (WDR-240/480)
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- DC output voltage adjustable
- Built-in constant current limiting circuit
- 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
- 3 years warranty

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

Model No.		WDR-120	WDR-240	WDR-480
AC input voltage range		180~550VAC(single and two phase); 254~780VDC		
AC input current		0.55A / 400VAC, 1.2A / 230VAC	1A / 400VAC, 2A / 230VAC	1.6A / 400VAC, 4A / 230VAC
AC inrush current (max.)		Cold start, 50A at 400VAC		
DC adjustment range		12V: 12~15V, 24V: 24~29V, 48V: 48~58V	24V: 24~28V, 48V: 48~55V	
Overload protection		105%~130% rated output power, constant current limiting, auto-recovery	105%~130% rated output power, constant current limiting, unit will shut down after 3 sec.; auto-recovery after 1 minute if the fault condiction is removed.	
Over voltage protection	Range	16~18V for 12V model (only for WDR-120), 29~33V for 24V model, 56~65V for 48V model		
	Type	Shut down o/p voltage, auto-recovery	Shut down o/p voltage, auto-recovery after 1 minute if the fault condition is removed	
Setup, rise, hold up time		2000ms, 70ms, 10ms at full load and 230VAC; 2000ms, 70ms, 50ms at full load and 400VAC	1500ms, 150ms, 18ms at full load and 230VAC; 800ms, 150ms, 18ms at full load and 400VAC	2000ms, 150ms, 16ms at full load and 230VAC; 800ms, 150ms, 18ms at full load and 400VAC
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, O/P-DC OK:0.5kVAC, 1 minute		
Isolation resistance		100MΩ(min.)@500VDC		
Working temperature		-25~+70°C (refer to output derating curve)	-30~+70°C (refer to output derating curve)	
DC OK signal		Relay Contact		
Leakage current		<3.5mA at 530VAC		
Vibration		10~500Hz, 2G 10 minutes / 1 cycle, period of 60 minutes each along X, Y, Z axes		
Safety standards		UL508, EAC TP TC 004 approved ; Design refer to GL		
EMC standards		EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61000-6-2 (EN50082-2), EN61204-3, EAC TP TC 020, heavy industry level		
Connection (screw DIN terminal)		I/P: 3 poles, O/P: 4 poles	I/P: 3 poles, O/P: 6 poles	
Dimension (WxHxD)(mm)		40x125.2x113.5	63x125.2x113.5	85.5x125.2x128.5
Packing		20pcs / 14kg	12pcs / 13.7kg	8pcs / 14.6kg

WDR-120 Series

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%
WDR-120-48	48V, 0~2.5A	±1.0%	150mV	92%

WDR-240 Series

Model No.	Output	Tol.	R&N	Effi.
WDR-240-24	24V, 0~10A	±1.0%	150mV	91%
WDR-240-48	48V, 0~5A	±1.0%	150mV	91%

WDR-480 Series

Model No.	Output	Tol.	R&N	Effi.
WDR-480-24	24V, 0~20A	±1.0%	100mV	92%
WDR-480-48	48V, 0~10A	±1.0%	150mV	93%

20A Power Supply Redundancy Module

- Suitable for redundant operation of 24V system
- Installed on DIN rail TS-35 / 7.5 or 15
- Relay contact signal output and LED indicator for input failure alarm
- Cooling by free air convection
- 3 years warranty

CE cULus EAC

CASE: 923C

55.5x 125.2x 100 mm

DC input voltage range ......21~28V, 20A max. x 2 channels
Reverse voltage 30V
DC output current .... 20A max.
DC output voltage drop ...... 0.6V max.
Input voltage alarm .... When input is > 20V(±5%) and <30V(±5%), relay contacts
Relay contact rating 30VDC, 1A
Working temperature .... -40~+70°C
Safety standard .... UL508, EAC TP TC 004 approved
EMC standards .... EN55032 class B, EN61000-4-2,3,4,5,6,8,11, EAC TP TC 020
Connection .... I/P: 4 poles, O/P: 2 poles screw DIN terminal, Single output: 4 poles

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

Feature Description

DR-RDN20 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.

40A DC UPS Module

- Battery controller for DIN rail UPS system
- Parallel connected to DC BUS
- Suitable for 24V system up to 40A
- Installed on DIN Rail TS-35 / 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

CE EAC

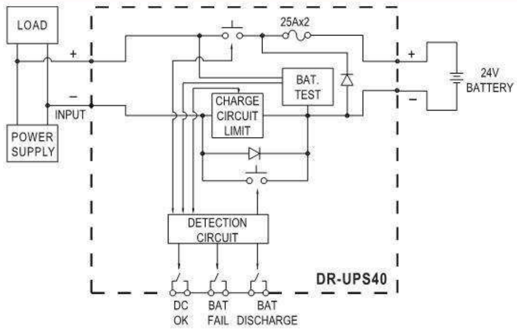
CASE: 923D

55.5x 125.2x 100 mm

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 ..... EN55032 class B, EN61000-4-2,3,4,5,6,8,11, EAC TP TC 020
Connection .... I/P: 2 poles, O/P: 2 poles screw DIN terminal, Single output: 6 poles

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

DRA-40 DRA-60

Features

- Universal AC input / Full range
- Io can be trimmed 10~100% by 1~10Vdc, PWM signal or resistance
- Installed on DIN rail TS-35 / 7.5 or 15
- Protections: Short circuit / Overload / Over voltage
- Pass LPS
- Cooling by free air convection
- DC output voltage adjustable
- LED indicator for power on
- Suitable for machine vision inspection system and plant cultivation application
- 3 years warranty

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

Model No.		DRA-40	DRA-60
AC input voltage range		90~264VAC; 127~370VDC	
AC inrush current (max.)		Cold start, 60A at 230VAC	
DC adjustment range		12V: 12~15V, 24V: 24~30V	
Current adjustment range		10%~100% rated output current adjustable by 1~10VDCc, PWM signal or resistance	
Overload protection	Range	95%~108%	
	Type	Constant current limiting, auto-recovery	
Over voltage protection		120%~155% rated output power, shut down o/p voltage, re-power on to recover	
Withstand voltage		I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC	
Working temperature		-30~+70°C (refer to output derating curve)	
Safety standards		UL62368-1, TUV EN62368-1, EAC TP TC 004 approved	
EMC standards		EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61204-3, EAC TP TC 020	
Connection (screw DIN terminal)		I/P: 3 poles, O/P: 6 poles screw DIN terminal	
Case No.		962A	
Dimension (WxHxD)(mm)		40x 90x 100	

40W DRA-40

Model No.	Output	Tol.	R&N	Effi.
DRA-40-12	12V, 0~3.34A	±1.0%	120mV	85%
DRA-40-24	24V, 0~1.7A	±1.0%	150mV	87%

60W DRA-60

Model No.	Output	Tol.	R&N	Effi.
DRA-60-12	12V, 0~5A	±1.0%	120mV	85%
DRA-60-24	24V, 0~2.5A	±1.0%	150mV	87%

To satisfy our customers is our goal —

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

KAA-8R

Under Development

KNX Universal Actuator

- Push button and LED indicator for each channel
- Program via ETS5.0 software
- Manual control via push button
- Programmable various time and sense function
- Dimension(WxHxD): 72x 90x 54.5mm
- 3 years warranty

KNX

KNX-20E-640

Model No.	V_{out1} (with choke)	V_{out2} (without choke)	I_{out} (I_1+I_2)	R&N	Effi.
KNX-20E-640	Bus, 30VDC	30VDC	640mA	100mV	86%

Features

- EIB / KNX power supply with integrated choke
- Compact size with 3SU(52.5mm) width
- 180~264VAC input
- No load power consumption <0.5W
- 200ms mains failure back-up time
- Button for bus reset on top
- Protections: Short circuit / Overload (short-circuit-proof) / Over voltage
- Cooling by free air convection
- Isolation Class I
- LED indicator for normal operation, bus reset and bus overload
- Installed on DIN rail TS-35/7.5 or 15
- 3 years warranty

SELV

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

Model No.		KNX-20E-640
AC input voltage range		180~264VAC; 254~370VDC
AC inrush current (max.)		Cold start, 40A at 230VAC
LED indicators		ON: Green LED, normal operation, no fault; Reset: Red LED, reset of the KNX bus; I_{out}> I_{max}: Red LED, KNX bus overload
Overload protection	Range	205%~235%
	Type	constant current limiting, auto-recovery after fault condition is removed
Over voltage protection		110%~115% ; Shut down o/p voltage, re-power on to recover
Setup, rise, hold up time		1000ms, 50ms, 200ms at 230VAC
Working temperature		-30~+70°C (refer to output derating curve)
Safety standards		EN61558-1,EN61558-2-16, EN50491-3, EAC TP TC 004 approved
EMC standards		EN50491-5-1,-5-2,-5-3, EN61000-4-2,3,4,5,6,8,11, EAC TP TC 020
Connection (screw DIN terminal)		I/P: 3 poles; O/P: 2 poles screw DIN terminal & 2 KNX bus terminals (black/red)
Dimension (WxHxD)(mm)		52.5x 90x 54.5

NEW

KDA-64

Model No.	Input signal	Output signal	Additional communication
KDA-64	KNX	DALI	Ethernet

Features

- KNX proof gateway
- Easy configuration & installation
- Cost effective solution for smart building
- Connect up to 64 DALI ECGs/Drivers
- Built-in DALI power supply
- LCD 2x12 display
- Lighting control via the button
- Lighting control via the integrated web server
- Up to 16 DALI lighting groups setting
- Up to 16 DALI scenes setting
- 3 year warranty

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

Model No.	KDA-64
AC input voltage range	100~240VAC ; 142~339VDC
Power consumption	7W(Typ.)
Input KNX bus	Standard KNX connector
Output DALI bus voltage	Built-in single DALI voltage 16-20VDC
Output DALI bus rated current	250mA
Ethernet communication port	100MB/s via RJ45 connector
DALI standard	EN62386-103 DALI 1.0 controller
Working temperature	-5~+45°C (refer to output derating curve)
Dimension (WxHxD)(mm)	72x 86x 55

Green Open Frame

5~30W Medical Miniature Encapsulated Type

MEAN WELL

NEW

MPM-05/10 MPM-15/20 MPM-30 MPM-30-xST

Features

- Universal AC input / Full range
- Medical safety (2xMOPP)
- Suitable for BF application with appropriate system consideration
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Extremely low leakage current
- No load power consumption <0.075W
- Isolation Class II
- -40~+85°C wide range working temperature
- Withstand 5G vibration test
- Miniature size, high power density
- Fully isolated plastic case
- 3 years warranty

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

BF rated 2xMOPP

Model No.	MPM-05	MPM-10	MPM-15	MPM-20	MPM-30-x ST
AC input voltage range	80~264VAC				
Leakage current	<80μA at 264VAC				
AC inrush current (max.)	Cold start, 25A at 115VAC, 45A at 230VAC				
Overload protection	105%~160% hiccup mode, auto-recovery				
Over voltage protection	105%~135% shut down o/p voltage				
Setup, rise, hole up time	1000ms, 30ms, 40ms at 230VAC				500ms, 30ms, 40ms at 230VAC
Withstand voltage	I/P-O/P: 4kVAC				
Working temperature	-40~+85°C	-30~+85°C	-40~+85°C	-35~+85°C	-40~+85°C (refer to output derating curve)
Safety standards	IEC60601-1, EN60601-1, EAC TP TC 004, UL ANSI/AAMI ES60601, CAN/CSA-C22 3rd edition; Design refer to 60335-1				
EMC standards	EN55011 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN60601-1-2				
Connection	4 pins				
Dimension (LxWxH)(mm)	45.7x 25.4x 21.5		52.4x 27.2x 24		PCB mounting: 69.5x 39x 24; Screw I/O: 91x 39.5x 28.5

5W MPM-05

Model No.	Output / Peak(10 sec.)	Tol.	R&N	Effi.
MPM-05-3.3	3.3V, 1.25A / 1.38A	±2.5%	200mV	74%
MPM-05-5	5V, 1.00A / 1.10A	±2.5%	200mV	80%
MPM-05-12	12V, 0.42A / 0.46A	±2.5%	200mV	80%
MPM-05-15	15V, 0.33A / 0.36A	±2.5%	200mV	81%
MPM-05-24	24V, 0.23A / 0.25A	±2.5%	200mV	82%

10W MPM-10

Model No.	Output / Peak(10 sec.)	Tol.	R&N	Effi.
MPM-10-3.3	3.3V, 2.50A / 2.75A	±2.5%	200mV	78%
MPM-10-5	5V, 2.00A / 2.20A	±2.5%	200mV	81%
MPM-10-12	12V, 0.85A / 0.94A	±2.5%	200mV	83%
MPM-10-15	15V, 0.67A / 0.74A	±2.5%	200mV	83%
MPM-10-24	24V, 0.42A / 0.46A	±2.5%	200mV	84%

15W MPM-15

Model No.	Output / Peak(10 sec.)	Tol.	R&N	Effi.
MPM-15-3.3	3.3V, 3.50A / 3.85A	±2.5%	200mV	83.5%
MPM-15-5	5V, 3.00A / 3.30A	±2.5%	200mV	85.5%
MPM-15-12	12V, 1.25A / 1.38A	±2.5%	200mV	86.5%
MPM-15-15	15V, 1.00A / 1.10A	±2.5%	200mV	87.0%
MPM-15-24	24V, 0.63A / 0.69A	±2.5%	200mV	86.5%

20W MPM-20

Model No.	Output / Peak(10 sec.)	Tol.	R&N	Effi.
MPM-20-3.3	3.3V, 4.50A / 4.95A	±2.5%	200mV	81%
MPM-20-5	5V, 4.00A / 4.40A	±2.5%	200mV	85%
MPM-20-12	12V, 1.80A / 1.98A	±2.5%	200mV	85.5%
MPM-20-15	15V, 1.40A / 1.54A	±2.5%	200mV	87%
MPM-20-24	24V, 0.90A / 0.99A	±2.5%	200mV	87%

30W MPM-30

Model No.	Output / Peak(10 sec.)	Tol.	R&N	Effi.
MPM-30-3.3□	3.3V, 6.00A / 7.8A	±2%	80mV	82.5%
MPM-30-5□	5V, 6.00A / 6.9A	±2%	80mV	86.5%
MPM-30-12□	12V, 2.50A / 2.9A	±2%	120mV	90%
MPM-30-15□	15V, 2.00A / 2.3A	±2%	150mV	89%
MPM-30-24□	24V, 1.30A / 1.5A	±2%	240mV	90%
MPM-30-48□	48V, 0.63A / 0.73A	±2%	300mV	91%

□ = Blank, ST;
Blank: PCB mounting, ST: Screw terminal style

Green Open Frame

5~30W Medical Miniature On Board Type

MFM-05/10

MFM-15/20

MFM-30

NEW

Features

- Universal AC input / Full range
- Medical safety (2xMOPP)
- Suitable for BF application with appropriate system consideration
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Extremely low leakage current
- No load power consumption <0.075W
- Isolation Class II
- -40~+85°C wide range working temperature
- Miniature size, high power density
- Pass LPS
- 3 years warranty

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

Model No.	MFM-05	MFM-10	MFM-15	MFM-20	MFM-30
AC input voltage range	80~264VAC				
Leakage current	<80μA at 264VAC				
AC inrush current (max.)	Cold start, 25A at 115VAC, 45A at 230VAC				
Overload protection	105%~160% hiccup mode, auto-recovery				115%~165%
Over voltage protection	105%~135% shut down o/p voltage				105%~135%
Setup, rise, hole up time	1000ms, 30ms, 40ms at 230VAC				500ms, 30ms, 40ms at 230VAC
Withstand voltage	I/P-O/P: 4kVAC				
Working temperature	-40~+85°C	-30~+85°C	-35~+85°C		-40~+85°C (refer to output derating curve)
Safety standards	IEC60601-1, EN60601-1, EAC TP TC 004, UL ANSI/AAMI ES60601, CAN/CSA-C22 3rd edition; Design refer to 60335-1				
EMC standards	EN55011 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN60601-1-2				
Connection	4 pins				
Dimension (LxWxH)(mm)	42x 22.3x 20.5		49x 23.8x 23		65.5x 35x 23

5W — MFM-05

Model No.	Output / Peak(10 sec.)	Tol.	R&N	Effi.
MFM-05-3.3	3.3V, 1.25A / 1.38A	±2.5%	200mV	74%
MFM-05-5	5V, 1.00A / 1.10A	±2.5%	200mV	80%
MFM-05-12	12V, 0.42A / 0.46A	±2.5%	200mV	80%
MFM-05-15	15V, 0.33A / 0.36A	±2.5%	200mV	81%
MFM-05-24	24V, 0.23A / 0.25A	±2.5%	200mV	82%

10W — MFM-10

Model No.	Output / Peak(10 sec.)	Tol.	R&N	Effi.
MFM-10-3.3	3.3V, 2.50A / 2.75A	±2.5%	200mV	78%
MFM-10-5	5V, 2.00A / 2.20A	±2.5%	200mV	81%
MFM-10-12	12V, 0.85A / 0.94A	±2.5%	200mV	83%
MFM-10-15	15V, 0.67A / 0.74A	±2.5%	200mV	83%
MFM-10-24	24V, 0.42A / 0.46A	±2.5%	200mV	84%

15W — MFM-15

Model No.	Output / Peak(10 sec.)	Tol.	R&N	Effi.
MFM-15-3.3	3.3V, 3.50A / 3.85A	±2.5%	200mV	83.5%
MFM-15-5	5V, 3.00A / 3.30A	±2.5%	200mV	85.5%
MFM-15-12	12V, 1.25A / 1.38A	±2.5%	200mV	86.5%
MFM-15-15	15V, 1.00A / 1.10A	±2.5%	200mV	87.0%
MFM-15-24	24V, 0.63A / 0.69A	±2.5%	200mV	86.5%

20W — MFM-20

Model No.	Output / Peak(10 sec.)	Tol.	R&N	Effi.
MFM-20-3.3	3.3V, 4.50A / 4.95A	±2.5%	200mV	81%
MFM-20-5	5V, 4.00A / 4.40A	±2.5%	200mV	85%
MFM-20-12	12V, 1.80A / 1.98A	±2.5%	200mV	85.5%
MFM-20-15	15V, 1.40A / 1.54A	±2.5%	200mV	87%
MFM-20-24	24V, 0.90A / 0.99A	±2.5%	200mV	87%

30W — MFM-30

Model No.	Output / Peak(10 sec.)	Tol.	R&N	Effi.
MFM-30-3.3	3.3V, 6.00A / 7.8A	±2%	80mV	82.5%
MFM-30-5	5V, 6.00A / 6.9A	±2%	80mV	86.5%
MFM-30-12	12V, 2.50A / 2.9A	±2%	120mV	90%
MFM-30-15	15V, 2.00A / 2.3A	±2%	150mV	89%
MFM-30-24	24V, 1.30A / 1.5A	±2%	240mV	90%
MFM-30-48	48V, 0.63A / 0.73A	±2%	300mV	91%

5W
62.85x 50x 19.7 mm

10W
70x 50x 22.7 mm

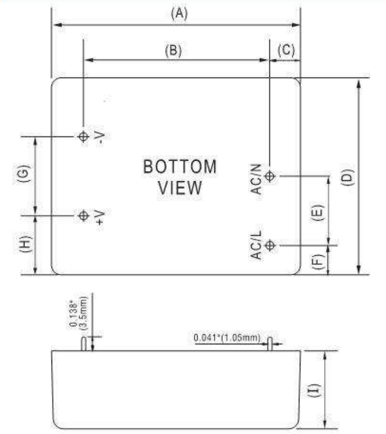
15W
75x 53x 22.7 mm

20W
94x 56x 22.7 mm

Features

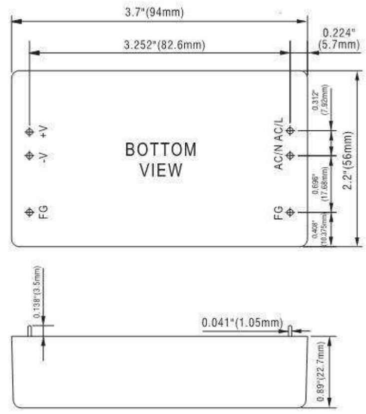
- Universal AC input / Full range
- Medical safety approved (2xMOPP)
- Suitable for BF application with appropriate system consideration
- Protections: Short circuit / Overload / Over voltage
- Low leakage current < 300μA (20W)
- No load power consumption <0.5W (<0.75W for 20W models)
- Fully isolated plastic case
- Isolation class II (5~15W), class I (20W)
- Cooling by free air convection
- Meet industrial, IT safety requirements
- 3 years warranty

PM-05 / 10 / 15 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)

PM-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
(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 ... PM-5/15: 1000ms, 20ms, 100ms @ 230VAC
PM-10: 1800ms, 20ms, 100ms @ 230VAC
PM-20: 500ms, 20ms, 50ms @ 230VAC
Withstand voltage .... I/P-O/P: 4kVAC, 1 minute
Working temperature .... PM-5/10/15: -20~+70°C
PM-20: -20~+60°C
Safety standards .... ANSI/AAMI ES60601-1, TUV EN60601-1, UL62368-1 (PM-15), EAC TP TC 004 approved
EMC standards .... EN55011, EN55032 class B, EN61000-3-2,3
EN61000-4-2,3,4,5,6,8,11, EN55024, EAC TP TC 020
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%	150mV	66%
PM-10-5	5V, 0~2.00A	±2%	150mV	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%

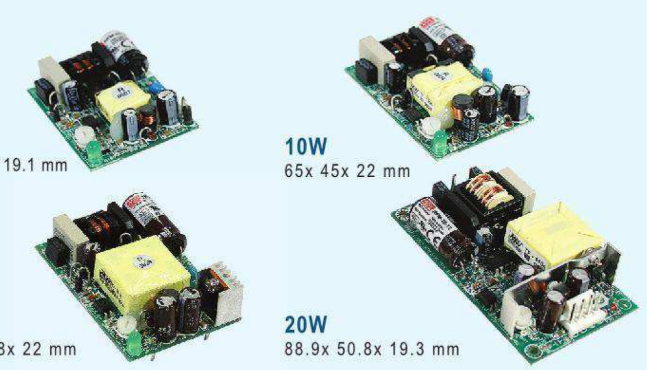
PM-20 Series

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%

Green Open Frame

5~20W Medical On Board Type

MEAN WELL



5W 57.9x 45x 19.1 mm

10W 65x 45x 22 mm

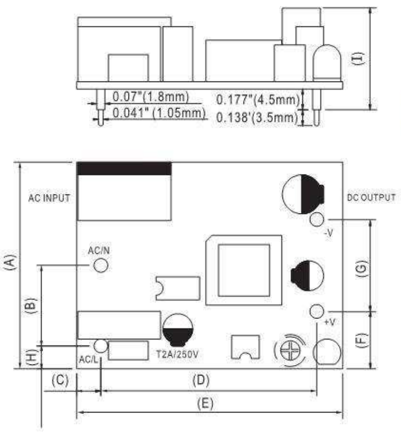
15W 69.85x 48x 22 mm

20W 88.9x 50.8x 19.3 mm

Features

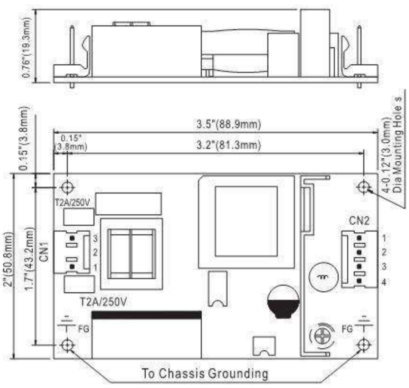
- Universal AC input / Full range
- Medical safety approved (2xMOPP)
- Suitable for BF application with appropriate system consideration
- Protections:
  Short circuit / Overload / Over voltage / Over temperature
- Low leakage current < 300μA (20W)
- No load power consumption <0.5W (<0.75W for 20W models)
- Isolation class II (5~15W), class I (20W)
- On-board type version available for 20W (optional)
- Cooling by free air convection
- Meet industrial, IT safety requirements
- 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	Shutdown o/p voltage, recovers automatically after temperature goes down
Setup, rise, hold up time	NFM-5/15: 1000ms, 20ms, 100ms @ 230VAC NFM-10: 1800ms, 20ms, 100ms @ 230VAC NFM-20: 500ms, 20ms, 50ms @ 230VAC
Withstand voltage	I/P-O/P: 4kVAC, 1 minute
Working temperature	NFM-5/10/15: -20~+70°C NFM-20: -20~+60°C
Safety standards	ANSI/AAMI ES60601-1, TUV EN60601-1, UL62368-1 (NFM-15), EAC TP TC 004 approved
EMC standards	EN55011, EN55032 class B, EN61000-3-2,3 EN61000-4-2,3,4,5,6,8,11, EN55024, EN60601-1-2, EN61204-3 Medical level, criteria A, EAC TP TC 020
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)

5W — NFM-05

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%

10W — NFM-10

Model No.	Output	Tol.	R&N	Effi.
NFM-10-3.3	3.3V, 0~2.50A	±2%	150mV	66%
NFM-10-5	5V, 0~2.00A	±2%	150mV	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%

15W — NFM-15

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%

20W — NFM-20

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%

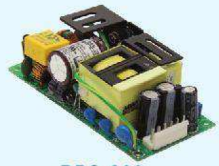
Green Open Frame 30~200W 1~3 Output Medical Grade

MEAN WELL

RPS-30/45/65
(3"x2")

RPS/D/T-60
(4"x2")

RPS-120
(4"x2")



RPS-200
(4"x2")

RPS-120/200-x-C

Features

- Universal AC input / Full range
- Built-in active PFC function (RPS-200)
- Class I or Class II configuration (Class I only for enclosed type)
- Medical safety approved (2x MOPP)
- Suitable for BF application with appropriate system consideration
- Extremely low leakage current
- No load power consumption <0.1W (<0.3W for 120W, <0.5W for 200W, <0.75W for 60W)
- High efficiency up to 95%
- Protections: Short circuit / Overload / Over voltage / Over temp. (RPS-120/200)
- Built-in 12V/0.5A fan supply (RPS-120/200)
- LED indicator for power on (except for RPS/D/T-60)
- 3 years warranty

BF rated 2xMOPP (RPS-200)

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

Model No.		RPS-30	RPS-45	RPS-65	RPS/D/T-60	RPS-120-x□	RPS-200-x□
Rated Power	Fan	NA				120W (10CFM)	200W (10CFM)
	Convection	30W	45W	65W	60W	84W	140W
AC input voltage range		80~264VAC			90~264VAC	80~264VAC	
Leakage current		<90μA	<100μA		<130μA		
DC adjustment range		±10% rated output voltage			-5%~+10%	±5% rated output voltage	
Overload protection		115%~150% hiccup mode, auto-recovery					
Over voltage protection		115%~135% shut down o/p voltage, re-power on to recover				110%~130%	
Withstand voltage		I/P-O/P: 4kVAC, I/P-FG:2kVAC, O/P-FG: 1.5kVAC					
Working temperature		-30~+70°C			-20~+70°C(RPS), -20~+65°C(RPD/T)	-30~+70°C	
Safety standards		ANSI/AAMI ES60601-1, TUV EN60601-1, EAC TP TC 004 approved; UL/EN62368-1 for RPS/D/T-60 only					
EMC standards		EN55032 (RPS/D/T-60), EN55011 class B, EN61000-3-2,-3, EN61000-4,2,3,4,5,6,8,11, EN60601-1-1-2, EAC TP TC 020					
Connection		JST B3P / B2P-VH	JST B3P / B4P-VH		JST B3P / B4P-VH (RPS-60) JST B3P / B6P-VH (RPD/T-60)	JST B3P / B4P-VH	JST B3P / B6P-VH
Dimension (LxWxH)(mm)		76.2x 50.8x 24			101.6x 50.8x 29	PCB: 101.6x 50.8x 29 ; Case: 103.4x 62x 40	

30W—Class II — RPS-30

Model No.	Output (Rated / Peak)	Tol.	R&N	Effi.
RPS-30-3.3	3.3V, 6A / 6.6A	±2%	80mV	80%
RPS-30-5	5V, 6A / 6.6A	±2%	80mV	82%
RPS-30-7.5	7.5V, 4A / 4.4A	±2%	80mV	84%
RPS-30-12	12V, 2.5A / 2.75A	±2%	100mV	88%
RPS-30-15	15V, 2A / 2.2A	±2%	100mV	89%
RPS-30-24	24V, 1.25A / 1.375A	±1%	150mV	89.5%
RPS-30-48	48V, 0.625A / 0.687A	±1%	200mV	92%

45W—Class II — RPS-45

Model No.	Output (Rated / Peak)	Tol.	R&N	Effi.
RPS-45-3.3	3.3V, 8A / 8.8A	±2%	60mV	80.5%
RPS-45-5	5V, 8A / 8.8A	±2%	60mV	83%
RPS-45-7.5	7.5V, 5.4A / 5.95A	±2%	80mV	85%
RPS-45-12	12V, 3.8A / 4.18A	±2%	100mV	88%
RPS-45-15	15V, 3A / 3.3A	±2%	100mV	89%
RPS-45-24	24V, 1.9A / 2.1A	±1%	120mV	90%
RPS-45-48	48V, 0.94A / 1.03A	±1%	200mV	91%

65W—Class II — RPS-65

Model No.	Output (Rated / Peak)	Tol.	R&N	Effi.
RPS-65-3.3	3.3V, 10A / 11A	±2%	80mV	80%
RPS-65-5	5V, 10A / 11A	±2%	80mV	84%
RPS-65-7.5	7.5V, 8A / 8.8A	±2%	80mV	85%
RPS-65-12	12V, 5.42A / 5.96A	±2%	120mV	88%
RPS-65-15	15V, 4.34A / 4.77A	±1%	120mV	89%
RPS-65-24	24V, 2.71A / 2.98A	±1%	150mV	90%
RPS-65-48	48V, 1.36A / 1.49A	±1%	200mV	91%

60W:Single Output—Class I — RPS-60

Model No.	Output (Rated / Peak)	Tol.	R&N	Effi.
RPS-60-3.3	3.3V, 10A / 11A	±2%	60mV	74%
RPS-60-5	5V, 10A / 11A	±2%	60mV	79%
RPS-60-12	12V, 5A / 5.5A	±2%	120mV	84%
RPS-60-15	15V, 4A / 4.4A	±2%	120mV	85%
RPS-60-24	24V, 2.5A / 2.75A	±1%	120mV	87%
RPS-60-48	48V, 1.25A / 1.375A	±1%	120mV	86%

60W:Dual Output—Class I — RPD-60

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		

60W:Triple Output—Class I — RPT-60

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		

120W—Class I or II — RPS-120

Model No.	Output (Convection/10CFM)	Tol.	R&N	Effi.
RPS-120-12□	12V, 7A / 10A	±2%	120mV	89%
RPS-120-15□	15V, 5.6A / 8A	±2%	120mV	89%
RPS-120-24□	24V, 3.5A / 5A	±1%	150mV	90%
RPS-120-27□	27V, 3.15A / 4.5A	±1%	150mV	90%
RPS-120-48□	48V, 1.75A / 2.5A	±1%	200mV	91%

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

200W—Class I or II — RPS-200

Model No.	Output (Convection/10CFM)	Tol.	R&N	Effi.
RPS-200-12□	12V, 11.7A / 16.7A	±2%	100mV	93%
RPS-200-15□	15V, 9.4A / 13.4A	±2%	100mV	93.5%
RPS-200-24□	24V, 5.9A / 8.4A	±1%	120mV	94%
RPS-200-27□	27V, 5.3A / 7.5A	±1%	120mV	94%
RPS-200-48□	48V, 3A / 4.2A	±1%	120mV	95%

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

Green Open Frame 75~160W 1~3 Output Medical Grade

MEAN WELL


RPS/D/T-75 (5"x3")


RPS/T-160 (5"x3")

NEW


RPT-160-C (optional)

Features

- Universal AC input / Full range
- Medical safety approved (2xMOPP)
- Suitable for BF application with appropriate system consideration (RPS/T-160)
- Built-in active PFC function (RPS/T-160)
- Protections: Short circuit / Overload / Over voltage / Over temperature (RPS/T-160)
- Extremely low leakage current
- Built-in P.G and P.F signal output (RPS/T-160)
- Built-in remote sense function (RPS-160 5~15V)
- No load power consumption <0.75W (RPS-75&RPS/T-160 G model)
- Standby 5V@0.8A (RPS/T-160 G model)
- LED indicator for power on
- 3 years warranty

BF rated (RPS/T-160) 2xMOPP FC (RPS/T-160) c US EAC CB CE

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

Model No.		RPS/D/T-75	RPS□-160	RPT□-160 ○
Rated Power	Fan	100W (23.5CFM)	160W (20.5CFM)	RPT(G)-160:145W (20.5CFM), RPT(G)-160-C: 142W (20.5CFM)
	Convection	75W	110W	RPT(G)-160: 99W, RPT(G)-160-C: 94W
AC input voltage range		90~264VAC		
Leakage current		RPS-75: <140μA, RPD/T-75: <150μA	<140μA	<160μA
DC adjustment range		CH1: -5%~+10% rated output voltage	±10%	0~+10%
Overload protection		140%~180% hiccup mode, auto-recovery	105%~135% hiccup mode, auto-recovery	
Over voltage protection		CH1: 110%~135% shut down o/p voltage, re-power on to recover		
Withstand voltage		I/P-O/P: 4kVAC, I/P-FG:2kVAC, O/P-FG: 1.5kVAC		
Working temperature		-20~+70°C (refer to output derating curve)		
Safety standards		ANSI/AAMI ES60601-1, TUV EN60601-1, EAC TP TC 004 approved		
EMC standards		EN55011 class B, EN61000-3-2,-3; EN60601-1-2, EAC TP TC 020		
Connection		JST B3P / B8P-VH		
Dimension (LxWxH)(mm)		127x 76.2x 31	127x 76.2x 34.6	

75W:Single Output—Class I — RPS-75

Model No.	Output (Rated / 23.5CFM)	Tol.	R&N	Effi.
RPS-75-3.3	3.3V, 15A / 20A	±2%	60mV	73%
RPS-75-5	5V, 14A / 18.7A	±2%	60mV	78%
RPS-75-12	12V, 6.3A / 8.3A	±1%	100mV	82%
RPS-75-15	15V, 5A / 6.7A	±1%	100mV	83%
RPS-75-24	24V, 3.2A / 4.2A	±1%	150mV	85%
RPS-75-36	36V, 2.1A / 2.8A	±1%	150mV	86%
RPS-75-48	48V, 1.6A / 2.1A	±1%	150mV	86%

75W:Dual Output—Class I — RPD-75

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		

75W:Triple Output—Class I — RPT-75

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%	80mV		
RPT-75B	5V, 0.6~8.0A	±2%	80mV	77%	100W
	12V, 0.2~4.0A	±6%	120mV		
	-12V, 0.1~1.0A	±5%	80mV		
RPT-75C	5V, 0.6~8.0A	±2%	80mV	77%	100W
	15V, 0.1~3.0A	±8%	120mV		
	-15V, 0.1~1.0A	±5%	80mV		
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:Single Output—Class I — RPS-160

Model No.	Output (Convection / 20.5CFM)	Tol.	R&N	Effi.
RPS□-160-5	5V, 20A / 30A	±4%	100mV	86%
RPS□-160-12	12V, 9.1A / 12.9A	±3%	100mV	87%
RPS□-160-15	15V, 7.3A / 10.3A	±3%	120mV	87%
RPS□-160-24	24V, 4.6A / 6.5A	±2%	120mV	87%
RPS□-160-48	48V, 2.3A / 3.25A	±2%	250mV	88%

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

160W:Triple Output—Class I — NEW RPT-160

Model No.	Output	Tol.	R&N	Effi.	Max.
RPT□-160A○	5V, 0.6~14A	±2%	60mV	84%	145W
	12V, 0.2~5.5A	±5%	80mV		
	-5V, 0.1~1.0A	-5%,+7%	120mV		
RPT□-160B○	5V, 0.6~14A	±2%	60mV	84%	146W
	12V, 0.2~5.0A	±5%	100mV		
	-12V, 0.1~1.0A	-4%,+5%	100mV		
RPT□-160C○	5V, 0.6~14A	±2%	60mV	83%	143W
	15V, 0.1~3.6A	±4%	80mV		
	-15V, 0.1~1.0A	±8%	100mV		
RPT□-160D○	5V, 0.3~11A	±2%	80mV	83%	148W
	12V, 0.2~5.0A	±5%	100mV		
	24V, 0.15~1.2A	-5%,+7%	120mV		

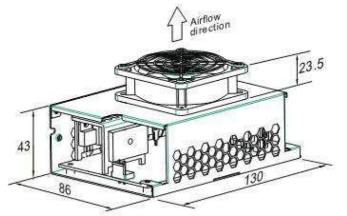
□ = blank, G; blank: basic function,
G: with 5Vsb/0.8A & no load power consumption< 0.75W
○ = blank, -C; blank: PCB type (standard); -C: Enclosed type (optional)

MEAN WELL

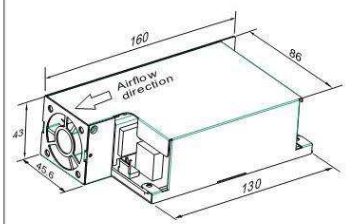
RPS-300
(5"x3")

RPS-400
(5"x3")

RPS-400-TF



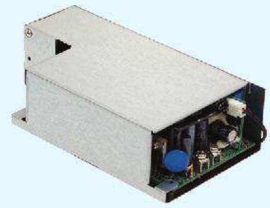
RPS-400-SF



RPS-300-x-C

RPS-400-x-C

RPS-400-x-TF



RPS-400-x-SF

Features

- Universal AC input / Full range
- Built-in active PFC function
- Medical safety approved (2xMOPP)
- Suitable for BF application with appropriate system consideration
- Class I or Class II configuration
- Protections:
  Short circuit / Overload / Over voltage / Over temperature
- Extremely low leakage current
- Built-in P.G, P.F signal output and remote sense function
- No load power consumption <0.5W
- Built-in 12V/0.5A fan supply
- Standby 5V@1A
- LED indicator for power on
- 3 years warranty

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

Model No.		RPS-300-x☐	RPS-400-x☐
Rated Power	Fan	300W (20.5CFM)	400W (25CFM)
	Convection	200W	250W
AC input voltage range		90~264VAC	80~264VAC
Leakage current		PCB type: <140μA; Enclosed type: <200μA	<160μA
DC adjustment range		±5%	
Overload protection		105%~135% hiccup mode, auto-recovery	
Withstand voltage		I/P-O/P: 4kVAC, I/P-FG:2kVAC, O/P-FG: 1.5kVAC	
Working temperature		-30~+70°C (refer to output derating curve)	
Safety standards		ANSI/AAMI ES60601-1, TUV EN60601-1, EAC TP TC 004 approved	
EMC standards		EN55011 class B (Radiation class A), EN61000-3-2,-3; EN60601-1-2, EAC TP TC 020	
Connection		JST B5P / screw terminal	
Dimension (LxWxH)(mm)		PCB : 127x 76.2x 35 (5"x3") Case: 130x 86x 43	PCB : 127x 76.2x 35 (5"x3") Case: 130x 86x 43(-C); 130x 86x 66.5(-TF); 160x 86x 43(-SF)

300W—Class I or II RPS-300

Model No.	Output (Convection / 20.5CFM)	Tol.	R&N	Effi.
RPS-300-12☐	12V, 16.67A / 25A	±3%	120mV	90.0%
RPS-300-15☐	15V, 13.33A / 20A	±3%	120mV	90.0%
RPS-300-24☐	24V, 8.33A / 12.5A	±2%	150mV	92.5%
RPS-300-27☐	27V, 7.4A / 11.12A	±2%	200mV	93.0%
RPS-300-48☐	48V, 4.17A / 6.25A	±2%	200mV	93.0%

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

400W—Class I or II RPS-400

Model No.	Output (Convection/25CFM)	Tol.	R&N	Effi.
RPS-400-12☐	12V, 20.8A / 33.3A	±3%	120mV	91.5%
RPS-400-15☐	15V, 16.7A / 26.7A	±3%	120mV	92%
RPS-400-18☐	18V, 13.9A / 22.3A	±3%	150mV	93%
RPS-400-24☐	24V, 10.5A / 16.7A	±2%	150mV	93%
RPS-400-27☐	27V, 9.3A / 14.9A	±1%	200mV	93.5%
RPS-400-36☐	36V, 7A / 11.2A	±1%	200mV	94%
RPS-400-48☐	48V, 5.3A / 8.4A	±1%	200mV	94%

☐= blank, -C, -TF, -SF:
blank: PCB type, -C: Enclosed type, -TF: Enclosed type with fan on the top,
-SF: Enclosed type with fan on the side

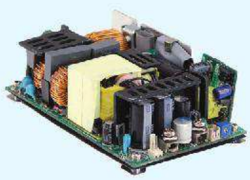
Open Frame

500W Single Output

- 5"x3" compact size
- 320W convection, 500W force air
- Built-in active PFC function
- Medical safety approved (2xMOPP)
- Suitable for BF application with appropriate system consideration
- Class I or Class II configuration
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Extremely low leakage current
- P.G, P.F signal output and remote sense function
- No load power consumption <0.5W by PS-ON control
- 12V/0.5A fan supply
- Standby 5V@1A
- LED indicator for power on
- 3 years warranty

UL/CUL/TUV/EAC/CB/CE pending

Coming Soon



RPS-500
127x 76.2x 40 mm(5"x3")

RPS-500-x-C

RPS-500-x-TF

RPS-500-x-SF

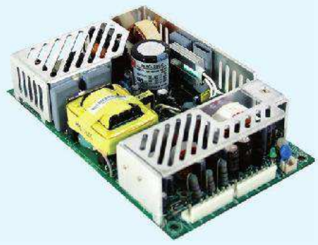
AC input voltage range ..... 80~264VAC
Leakage current .... <160μA
Withstand voltage .... I/P-O/P: 4kVAC, I/P-FG: 2kVAC, O/P-FG: 1.5kVAC
Working temperature .... -30~+70°C (refer to output derating curve)
Safety standards .... ANSI/AAMI ES60601-1, TUV EN60601-1, IEC60601-1, EAC TP TC 004
EMC standards .... EN55011, EN61000-3-2, 3, EN61204-3, EN61000-4,2,3,4,5,6,8,11, EN60601-1-2, EAC TP TC 020

Model No.	Output (Convection/25CFM)	Tol.	R&N	Effi.
RPS-500-12□	12V, 26.7A / 41.6A	±3%	120mV	91.5%
RPS-500-15□	15V, 21.3A / 33.3A	±3%	120mV	92%
RPS-500-18□	18V, 17.8A / 27.8A	±3%	150mV	93%
RPS-500-24□	24V, 13.4A / 20.8A	±2%	150mV	93%
RPS-500-27□	27V, 11.9A / 18.5A	±2%	200mV	93.5%
RPS-500-36□	36V, 8.9A / 13.9A	±1%	200mV	94%
RPS-500-48□	48V, 6.7A / 10.4A	±1%	200mV	94%

□= blank, -C, -TF, -SF:
blank: PCB type, -C: Enclosed type, -TF: Enclosed type with fan on the top, -SF: Enclosed type with fan on the side

200W Quad Output

- Universal AC input / Full range
- Built-in active PFC function
- Medical safety approved (2xMOPP)
- Suitable for BF application with appropriate system consideration
- Extremely low leakage current
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Built-in remote sense function and remote ON/OFF control
- Free air convection for 140W, 200W with 25CFM forced air
- With P.G and P.F singal output
- 3 years warranty



177.8x 107.2x 35.5 mm
(7"x 4.2")

AC input voltage range .... 90~264VAC
AC inrush current .... Cold start, 60A at 230VAC
Overload protection .... 120%~160% Hiccup mode, auto-recovery
Over voltage protection .... CH1: 115%~135% rated output voltage, Shut down o/p voltage
Leakage current .... <180μA
Withstand voltage .... I/P-O/P: 4kVAC, I/P-FG:1.5kVAC, O/P-FG: 1.5kVAC
Working temperature .... -20~+70°C (refer to output derating curve)
Safety standards .... ANSI/AAMI ES60601-1, TUV EN60601-1, IEC60601-1, EAC TP TC 004 approved; Design refer to UL62368-1, TUV EN62368-1
EMC standards .... EN55011/EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN60601-1-2, EN61000-6-2
Connection .... 3P, 20P / 3.96mm pitch, JST B3P/VH, Molex 5566-20; 3P, 8Px2 / 3.96mm pitch. JSTB3P / B8Px2-VH

Model No.	Output	Tol.	R&N	Effi.	Max.
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		

Open Frame

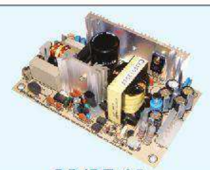
5~65W Single, Dual and Triple Output

MEAN WELL

PS-05
75x 40x 20 mm

PD-25
107x 61x 28 mm

PD/PT-45
127x 76x 28 mm



PD/PT-65
127x 76x 42 mm

PT-4503
127x 76x 28 mm

PT-6503
127x 76x 42 mm

Features

- Universal AC input / Full range
- Cooling by free air convection
- Protections: Short circuit / Overload / Over temp. / Over voltage(PS-05/PD-25 only)
- 2 years warranty

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

(expect for PS-05) (expect for PS-05)

Model No.	PS-05	PD-25	PD/PT-45	PD/PT-65	PT-4503/6503
AC input voltage range	85~264VAC; 120~370VDC		90~264VAC; 120~370VDC		
Leakage current (at 240VAC)	Less than 0.5mA		Less than 0.75mA		Less than 1.0mA
AC inrush current (max.)	Cold start, 30A at 230VAC	Cold start, 36A at 230VAC	Cold start, 30A at 230VAC	Cold start, 40A at 230VAC	
Overload protection	>105% hiccup mode, auto-recovery		53~75W hiccup mode, auto-recovery	73~105W hiccup mode, auto-recovery	120%~160% hiccup mode, auto-recovery
Over voltage protection	115%~150%	115%~135%	CH1: 115%~135% rated output voltage		
Withstand voltage	I/P-O/P: 3kVAC, I/P-FG:1.5kVAC	I/P-O/P: 3kVAC, I/P-FG:2kVAC	I/P-O/P: 3kVAC, I/P-FG:1.5kVAC		
Safety standards	EAC TP TC 004	UL62368-1, TUV EN62368-1, EAC TP TC 004 approved			
EMC standards	EN55032 class B, EN61000-3-2,3, EAC TP TC 020 EN61000-4-2,3,4,5,6,8,11	EN55032 class B, EN61000-3-2,3, EAC TP TC 020 EN61000-4-2,3,4,5	EN55032 class B, EN61000-3-2,3, EAC TP TC 020, EN61000-4-2,3,4,5,6,8,11		EN55032 class B, EN61000-3-2, EAC TP TC 020, EN61000-4-2,3,4,6,11
Connection	3P/ 5mm, 2P/ 3.96mm pitch, Molex 5285-03,5273-02	3P, 4P/ 3.96mm pitch, Molex P/N: 41791-03, 04	2P, 6P/ 3.96mm pitch, Molex 5277-02 / 5273-06	2P, 6P/ 3.96mm pitch, Molex P/N: 5277-02, 5273-06	2P, 8P/ 3.96mm pitch, Molex: 5277-02, 5273-08

5W — PS-05

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 — PD-25

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		

45W — PD-45

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		

65W — PD-65

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

45W — PT-45

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		

65W — PT-65

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

45W — PT-4503

Model No.	Output	Tol.	R&N	Effi.	Max.
PT-4503	3.3V, 0.0~5.0A	±2%	50mV	72%	45W
	5V, 0.2~7.0A	+4%,-2%	50mV		
	12V, 0.0~1.2A	±8%	100mV		

65W — PT-6503

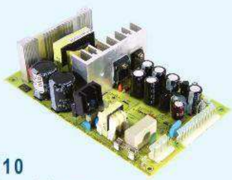
Model No.	Output	Tol.	R&N	Effi.	Max.
PT-6503	3.3V, 0.0~7.0A	±3%	50mV	72%	62W
	5V, 0.2~10A	+4%,-2%	50mV		
	12V, 0.0~1.2A	±8%	100mV		

Open Frame

65~250W Dual, and Triple Output

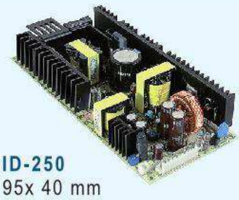
MEAN WELL

RPD/T-65
127x 76x 29 mm



PD-110
177.8x 107.95x 29 mm

PPT-125
127x 76.2x 34.6 mm



PID-250
222x 95x 40 mm

Features

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage / Over Temp.(PID-250)
- 2 years warranty (RPD/T-65, PD-110)
  3 years warranty (RPT-125/PID-250)

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

(PPT-125/PID-250)

Model No.	RPD/T-65	PD-110	PPT-125	PID-250
AC input voltage range	90~264VAC; 127~370VDC	100~264VAC; 141~370VDC	90~264VAC; 127~370VDC	
Leakage current	Less than 1mA at 240VAC		Less than 2.0mA at 240VAC	Less than 3.5mA at 240VAC
AC inrush current (max.)	Cold start, 25A at 115VAC, 50A at 230VAC	Cold start, 45A at 230VAC	Cold start, 40A at 230VAC	Cold start, 58A at 230VAC
Overload protection	90~125W hiccup mode, auto-recovery	105%~135% hiccup mode, auto-recovery	130%~160% fold back current limiting, auto-recovery	
Over voltage protection	CH1: 115%~135% rated output voltage		CH1:110%~135% rated output voltage	CH1: 115%~140%, CH2: 110%~135%
Withstand voltage	I/P-O/P: 3kVAC, I/P-FG: 2kVAC, 1minute	I/P-O/P: 3kVAC, I/P-FG:1.5kVAC, 1minute		I/P-O/P:3.0kVAC, I/P-FG:2kVAC, 1minute
Safety standards	UL62368-1, TUV EN62368-1, EAC TP TC 004 approved			
EMC standards	EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EAC TP TC 020	EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,11, EAC TP TC 020	EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EAC TP TC 020	EN55032 class B, EN61000-3-2,-3 EN61000-4-2,3,4,5,6,8,11, EN61000-6-2, EAC TP TC 020
Connection	3P, 6P/ 3.96mm pitch, Molex P/N: 5273-03, 5273-06	5+12P/ 3.96mm pitch, Molex: 5273-05,12	3+5Px2 /3.96mm pitch, JST: B3P/B5Px2-VH	5+10+2P/3.96mm pitch, JST B5P/B10P-VH, B2B-XH

65W RPD-65

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		

65W RPT-65

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		

110W PD-110

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		

125W PPT-125

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		

125W PID-250

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

Green Open Frame 1~20W AC/DC Miniature Encapsulated Type

MEAN WELL

IRM-01/02 IRM-01S/02S IRM-03 IRM-03S IRM-05/10 IRM-15/20

Features

- Universal AC input / Full range
- No load power consumption < 0.075W (<0.1W for IRM-05~20)
- Miniature size, high power density
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- Isolation Class II
- Comply with EN55032 class B without any additional components
- Fully isolated plastic case
- High operating temperature up to +85°C
- Withstand 5G vibration test
- Low cost, high reliability
- Pass LPS
- 3 years warranty

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

Model No.	IRM-01-x S	IRM-02-x S	IRM-03-x S	IRM-05	IRM-10	IRM-15	IRM-20
AC input voltage range	85~305VAC			85~264VAC; 120~370VDC			
Overload protection	>110%		105%~260%	115%~260%	115%~190%		115%~160%
Over voltage protection	115%~135% rated output voltage						
Withstand voltage	I/P-O/P: 3kVAC						
Working temperature	-30~+85°C			-30~+70°C (refer to output derating curve)			
Safety standards	IRM-01~20: UL62368-1, TUV EN62368-1, EAC TP TC 004, BSMI CNS14336-1 approved; IRM-03(S): TUV EN60335-1 approved; Design refer to IEC60601-1 for IRM-03						
EMC standards	EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN55024, EAC TP TC 020						
Dimension (LxWxH)(mm)	PCB: 33.7x 22.2x 15 SMD: 33.7x 22.2x 16		PCB: 37x 24x 15 SMD: 37x 24x 16	45.7x 25.4x 21.5		52.4x 27.2x 24	

1W IRM-01

Model No.	Output	Tol.	R&N	Effi.
IRM-01-3.3□	3.3V, 0~300mA	±2.5%	150mV	66%
IRM-01-5□	5V, 0~200mA	±2.5%	150mV	70%
IRM-01-9□	9V, 0~111mA	±2.5%	150mV	72%
IRM-01-12□	12V, 0~83mA	±2.5%	150mV	74%
IRM-01-15□	15V, 0~67mA	±2.5%	200mV	75%
IRM-01-24□	24V, 0~42mA	±2.5%	240mV	77%

□= Blank, S ; Blank: PCB mounting style, S: SMD type

2W IRM-02

Model No.	Output	Tol.	R&N	Effi.
IRM-02-3.3□	3.3V, 0~600mA	±2.5%	150mV	66%
IRM-02-5□	5V, 0~400mA	±2.5%	150mV	70%
IRM-02-9□	9V, 0~222mA	±2.5%	150mV	72%
IRM-02-12□	12V, 0~167mA	±2.5%	150mV	74%
IRM-02-15□	15V, 0~133mA	±2.5%	200mV	75%
IRM-02-24□	24V, 0~83mA	±2.5%	240mV	77%

□= Blank, S ; Blank: PCB mounting style, S: SMD type

3W IRM-03

Model No.	Output	Tol.	R&N	Effi.
IRM-03-3.3□	3.3V, 0~900mA	±2.5%	100mV	68%
IRM-03-5□	5V, 0~600mA	±2.5%	100mV	72%
IRM-03-9□	9V, 0~333mA	±2.5%	100mV	77%
IRM-03-12□	12V, 0~250mA	±2.5%	150mV	78%
IRM-03-15□	15V, 0~200mA	±2.5%	200mV	78%
IRM-03-24□	24V, 0~125mA	±2.5%	240mV	80%

□= Blank, S ; Blank: PCB mounting style, S: SMD type

5W IRM-05

Model No.	Output	Tol.	R&N	Effi.
IRM-05-3.3	3.3V, 0~1.25A	±2.5%	200mV	68%
IRM-05-5	5V, 0~1A	±2.5%	200mV	71%
IRM-05-12	12V, 0~0.42A	±2.5%	200mV	75%
IRM-05-15	15V, 0~0.33A	±2.5%	200mV	75%
IRM-05-24	24V, 0~0.23A	±2.5%	200mV	77%

10W IRM-10

Model No.	Output	Tol.	R&N	Effi.
IRM-10-3.3	3.3V, 0~2.5A	±2.5%	200mV	74%
IRM-10-5	5V, 0~2A	±2.5%	200mV	77%
IRM-10-12	12V, 0~0.85A	±2.5%	200mV	82%
IRM-10-15	15V, 0~0.67A	±2.5%	200mV	82%
IRM-10-24	24V, 0~0.42A	±2.5%	200mV	82%

15W IRM-15

Model No.	Output	Tol.	R&N	Effi.
IRM-15-3.3	3.3V, 0~3.5A	±2.5%	200mV	74%
IRM-15-5	5V, 0~3A	±2.5%	200mV	78%
IRM-15-12	12V, 0~1.25A	±2.5%	200mV	82%
IRM-15-15	15V, 0~1A	±2.5%	200mV	82%
IRM-15-24	24V, 0~0.63A	±2.5%	200mV	83%

20W IRM-20

Model No.	Output	Tol.	R&N	Effi.
IRM-20-3.3	3.3V, 0~4.5A	±2.5%	200mV	76%
IRM-20-5	5V, 0~4A	±2.5%	200mV	79%
IRM-20-12	12V, 0~1.8A	±2.5%	200mV	84%
IRM-20-15	15V, 0~1.4A	±2.5%	200mV	84%
IRM-20-24	24V, 0~0.9A	±2.5%	200mV	85%

Green Open Frame 30~60W AC/DC Miniature Encapsulated Type

IRM-30

IRM-30-xST

IRM-45/60

IRM-45/60-xST

Features

- Universal AC input / Full range
- No load power consumption < 0.1W
- Miniature size, high power density
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- Isolation Class II
- Fully isolated plastic case
- Comply with EN55032 class B without any additional components
- High operating temperature up to +70°C
- Withstand 5G vibration test
- Low cost, high reliability
- Pass LPS (except for IRM-45/60 5V)
- 3 years warranty

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

Model No.	IRM-30-x ST	IRM-45-x ST	IRM-60-x ST
AC input voltage range	85~264VAC		
AC inrush current (max.)	Cold start, 25A at 115VAC, 45A at 230VAC	Cold start, 30A at 115VAC, 60A at 230VAC	
Overload protection	105%~160%	115%~160%	
Over voltage protection	105%~135%		
Setup, rise, hold up time	1000ms, 30ms, 40ms at 230VAC	1000ms, 30ms, 50ms at 230VAC	
Leakage current	Less than 0.25mA at 240VAC		
Withstand voltage	I/P-O/P: 3kVAC		
Working temperature	-30~+70°C (refer to output derating curve)		
Vibration	10~500Hz, 5G 10min./1 cycle, period for 60 min. each along X, Y, Z axes		
Safety standards	UL62368-1, TUV EN62368-1, EAC TP TC 004, BSMI CNS14336-1 approved		
EMC standards	EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EAC TP TC 020, EN55024		
Connection	4 industrial pins		
Dimension (LxWxH)(mm)	PCB mounting: 69.5x 39x 24; Screw I/O: 91x 39.5x 28.5	PCB mounting: 87x 52x 29.5; Screw I/O: 109x 52x 33.5	

30W IRM-30

Model No.	Output	Tol.	R&N	Effi.
IRM-30-5□	5V, 0~6A	±2.5%	120mV	83%
IRM-30-12□	12V, 0~2.5A	±2.5%	150mV	88%
IRM-30-15□	15V, 0~2A	±2.5%	200mV	88%
IRM-30-24□	24V, 0~1.3A	±2.5%	240mV	88.5%
IRM-30-48□	48V, 0~0.63A	±2.5%	300mV	90%

□ = Blank, ST ; Blank: PCB mounting style, ST: Screw terminal style

45W IRM-45

Model No.	Output	Tol.	R&N	Effi.
IRM-45-5□	5V, 0~8A	±2.5%	80mV	83.5%
IRM-45-12□	12V, 0~3.8A	±2.5%	150mV	87.5%
IRM-45-15□	15V, 0~3A	±2.5%	180mV	88.5%
IRM-45-24□	24V, 0~1.9A	±2.5%	200mV	89.5%
IRM-45-48□	48V, 0~0.94A	±2.5%	300mV	90.5%

□ = Blank, ST ; Blank: PCB mounting style, ST: Screw terminal style

□ = Blank, ST ; Blank: PCB mounting style, ST: Screw terminal style

60W IRM-60

Model No.	Output	Tol.	R&N	Effi.
IRM-60-5□	5V, 0~10A	±2.5%	80mV	84%
IRM-60-12□	12V, 0~5A	±2.5%	120mV	87.5%
IRM-60-15□	15V, 0~4A	±2.5%	120mV	89%
IRM-60-24□	24V, 0~2.5A	±2.5%	150mV	90%
IRM-60-48□	48V, 0~1.25A	±2.5%	240mV	91%

□ = Blank, ST ; Blank: PCB mounting style, ST: Screw terminal style

Green Open Frame 15~65W Single Output

MEAN WELL

EPS-15 (2.5"x1.8") | EPS-25/35 (3"x2") | EPS-45S/65S (3"x2")

Features

- Universal AC input / Full range
- No load power consumption <0.1W(<0.3W for 15~35W)
- High efficiency up to 91%
- Compact size, 1U low profile
- Cooling by free air convection
- Protections: Short circuit / Overload / Over voltage
- Class I or Class II installations
- LED indicator for power on (EPS-25/35/45S/65S)
- 3 years warranty

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

(EPS-15)

Model No.		EPS-15	EPS-25	EPS-35	EPS-45S	EPS-65S
AC input voltage range		85~264VAC; 120~370VDC			80~264VAC	
AC inrush current (max.)		Cold start, 45A at 230VAC	Cold start, 35A at 230VAC	Cold start, 40A at 230VAC	Cold start, 60A at 230VAC	
DC adjustment range		±10% rated output voltage			-5~+10% rated output voltage	
Overload protection	Range	115%~150% rated output power	115%~170% rated output power		115%~150% rated output power	
	Type	Hiccup mode, auto-recovery				
Over voltage protection		110%~135% shut down o/p voltage, re-power on to recover				
Withstand voltage		I/P-O/P: 3kVAC, I/P-FG:2kVAC, O/P-FG: 0.5kVAC				
Working temperature		-30~+70°C (refer to output derating curve)				
Safety standards		UL62368-1, TUV EN62368-1, EAC TP TC 004 approved; CCC GB4943.1 for EPS-15				
EMC standards		EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EAC TP TC 020 (GB9254, GB17625.1 for EPS-15)				
Connection		JST B3P/B2P-VH			JST B3P/B4P-VH	
Dimension (LxWxH)(mm)		63.5x45.7x24	76.2x50.8x24			

15W—Class Ⅰ EPS-15

Model No.	Output (Rated / Peak 10 sec.)	Tol.	R&N	Effi.
EPS-15-3.3	3.3V, 0~3A / 3.3A	±2%	50mV	75%
EPS-15-5	5V, 0~3A / 3.3A	±2%	50mV	78%
EPS-15-7.5	7.5V, 0~2A / 2.2A	±2%	80mV	81%
EPS-15-12	12V, 0~1.25A / 1.38A	±1%	80mV	82%
EPS-15-15	15V, 0~1A / 1.1A	±1%	100mV	83%
EPS-15-24	24V, 0~0.625A / 0.69A	±1%	150mV	83%
EPS-15-27	27V, 0~0.56A / 0.615A	±1%	180mV	84%
EPS-15-36	36V, 0~0.42A / 0.46A	±1%	200mV	85%
EPS-15-48	48V, 0~0.313A / 0.344A	±1%	200mV	85%

25W—Class Ⅰ EPS-25

Model No.	Output (Rated / Peak 10 sec.)	Tol.	R&N	Effi.
EPS-25-3.3	3.3V, 0~5A / 5.5A	±2%	60mV	79%
EPS-25-5	5V, 0~5A / 5.5A	±2%	60mV	81%
EPS-25-7.5	7.5V, 0~3.4A / 3.74A	±2%	80mV	83%
EPS-25-12	12V, 0~2.1A / 2.34A	±1%	100mV	86%
EPS-25-15	15V, 0~1.7A / 1.87A	±1%	100mV	87%
EPS-25-24	24V, 0~1.05A / 1.17A	±1%	180mV	88%
EPS-25-27	27V, 0~0.95A / 1.05A	±1%	180mV	89%
EPS-25-36	36V, 0~0.7A / 0.78A	±1%	200mV	89%
EPS-25-48	48V, 0~0.53A / 0.59A	±1%	240mV	90%

35W—Class Ⅰ EPS-35

Model No.	Output (Rated / Peak 10 sec.)	Tol.	R&N	Effi.
EPS-35-3.3	3.3V, 0~6A / 6.6A	±2.5%	60mV	80%
EPS-35-5	5V, 0~6A / 6.6A	±2.0%	70mV	82%
EPS-35-7.5	7.5V, 0~4.7A / 5.2A	±2.0%	80mV	84%

Model No.	Output (Rated / Peak 10 sec.)	Tol.	R&N	Effi.
EPS-35-12	12V, 0~3A / 3.3A	±1.0%	100mV	87%
EPS-35-15	15V, 0~2.4A / 2.65A	±1.0%	100mV	88%
EPS-35-24	24V, 0~1.5A / 1.65A	±1%	180mV	89%
EPS-35-27	27V, 0~1.3A / 1.45A	±1%	180mV	89%
EPS-35-36	36V, 0~1A / 1.1A	±1%	200mV	89%
EPS-35-48	48V, 0~0.75A / 0.82A	±1%	240mV	90%

45W—Class Ⅱ EPS-45S

Model No.	Output (Rated / Peak 10 sec.)	Tol.	R&N	Effi.
EPS-45S-3.3	3.3V, 0~8A / 8.8A	±2%	80mV	80%
EPS-45S-5	5V, 0~8A / 8.8A	±2%	80mV	83%
EPS-45S-7.5	7.5V, 0~5.4A / 5.95A	±2%	80mV	85%
EPS-45S-12	12V, 0~3.8A / 4.18A	±2%	120mV	88%
EPS-45S-15	15V, 0~3A / 3.3A	±2%	150mV	89%
EPS-45S-24	24V, 0~1.9A / 2.1A	±1%	240mV	90%
EPS-45S-48	48V, 0~0.94A / 1.03A	±1%	300mV	91%

65W—Class Ⅱ EPS-65S

Model No.	Output (Rated / Peak 10 sec.)	Tol.	R&N	Effi.
EPS-65S-3.3	3.3V, 0~10A / 11A	±2%	80mV	80%
EPS-65S-5	5V, 0~10A / 11A	±2%	80mV	84%
EPS-65S-7.5	7.5V, 0~8A / 8.8A	±2%	80mV	85%
EPS-65S-12	12V, 0~5.42A / 5.96A	±2%	120mV	88%
EPS-65S-15	15V, 0~4.34A / 4.77A	±2%	150mV	89%
EPS-65S-24	24V, 0~2.71A / 2.98A	±1%	240mV	90%
EPS-65S-48	48V, 0~1.36A / 1.49A	±1%	300mV	91%

Green Open Frame 45~120W Single Output

EPS-45/65
(4"x2")

EPS-45-x-C
EPS-65-x-C

EPS-120
(4"x2")

ELP-75

ELP-75-x-C

Features

- Compact size, 1U low profile
- Universal AC input / Full range
- Built-in active PFC function (ELP-75)
- Class I or Class II installations
- No load power consumption < 0.3W (<0.5W for ELP-75)
- High efficiency up to 91%
- Protections: Short circuit / Overload / Over voltage / Over temp.(EPS-120)
- Cooling by free air convection
- Built-in 12V/0.5A auxiliary output (EPS-120)
- LED indicator for power on
- 3 years warranty

(ELP-75)

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

Model No.		EPS-45-x□	EPS-65-x□	EPS-120	ELP-75-x□
Rated Power	Fan	NA	NA	120W (10CFM)	NA
	Convection	45W	65W	84W	75W
AC input voltage range		90~264VAC		80~264VAC	90~264VAC
DC adjustment range		±10% rated output voltage		±5%	±10%
Overload protection	Range	115%~150% rated output power			105%~150% rated output power
	Type	Hiccup mode, auto-recovery			
Over voltage protection		110%~130% shut down o/p voltage, re-power on to recover			
Withstand voltage		I/P-O/P: 3kVAC, I/P-FG:2kVAC, O/P-FG: 0.5kVAC, 1 minute			I/P-O/P: 3kVAC, I/P-FG:1.5kVAC, O/P-FG: 0.5kVAC
Working temperature		-30~+70°C (refer to output derating curve)			
Safety standards		UL62368-1, TUV EN62368-1, EAC TP TC 004 approved			
EMC standards		EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EAC TP TC 020			
Connection		3+4P/3.96mm pitch, JST B3P/B4P-VH			3+4P/3.96mm pitch, JST B3P/B6P-VH
Dimension (LxWxH)(mm)		PCB: 101.6x50.8x29 ; Case: 103.4x62x37		101.6x 50.8x 29	PCB: 175x 60x 27 ; Case: 195x 68.5x 33

45W—Class I EPS-45

Model No.	Output (Rated / Peak 10 sec.)	Tol.	R&N	Effi.
EPS-45-3.3□	3.3V, 8A / 9A	±3%	80mV	80%
EPS-45-5□	5V, 8A / 9A	±2%	80mV	82%
EPS-45-7.5□	7.5V, 5.4A / 5.6A	±2%	100mV	84%
EPS-45-12□	12V, 3.75A / 4.2A	±2%	120mV	87%
EPS-45-15□	15V, 3A / 3.3A	±2%	150mV	88%
EPS-45-24□	24V, 1.9A / 2.1A	±1%	240mV	89%
EPS-45-36□	36V, 1.25A / 1.4A	±1%	280mV	89%
EPS-45-48□	48V, 1A / 1.1A	±1%	300mV	90%

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

120W—Class I or II EPS-120

Model No.	Output (Convection/10CFM)	Tol.	R&N	Effi.
EPS-120-12	12V, 7A / 10A	±2%	120mV	88.0%
EPS-120-15	15V, 5.6A / 8A	±2%	120mV	88.5%
EPS-120-24	24V, 3.5A / 5A	±1%	150mV	90.0%
EPS-120-27	27V, 3.15A / 4.5A	±1%	150mV	90.0%
EPS-120-48	48V, 1.75A / 2.5A	±1%	200mV	91.0%

65W—Class I EPS-65

Model No.	Output (Rated / Peak 10 sec.)	Tol.	R&N	Effi.
EPS-65-3.3□	3.3V, 11A / 12A	±3%	80mV	80%
EPS-65-5□	5V, 11A / 12A	±2%	80mV	82%
EPS-65-7.5□	7.5V, 8A / 8.8A	±2%	100mV	84%
EPS-65-12□	12V, 5.42A / 6A	±2%	120mV	86%
EPS-65-15□	15V, 4.34A / 4.8A	±2%	150mV	87%
EPS-65-24□	24V, 2.71A / 3A	±1%	240mV	88%
EPS-65-36□	36V, 1.81A / 2A	±1%	280mV	89%
EPS-65-48□	48V, 1.36A / 1.5A	±1%	300mV	90%

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

75W—Class I ELP-75

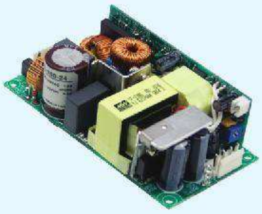
Model No.	Output	Tol.	R&N	Effi.
ELP-75-3.3□	3.3V, 15A	±3%	80mV	80%
ELP-75-5□	5V, 15A	±2%	80mV	82%
ELP-75-12□	12V, 6.25A	±2%	120mV	89%
ELP-75-15□	15V, 5A	±2%	150mV	90%
ELP-75-24□	24V, 3.15A	±1%	240mV	90%
ELP-75-36□	36V, 2.1A	±1%	280mV	90%
ELP-75-48□	48V, 1.6A	±1%	300mV	90%

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

Green Open Frame 100~300W Single Output

MEAN WELL

EPP-100
(4"x2")



EPP-150
(4"x2")

EPP-200
(4"x2")

Features

- Universal AC input / Full range
- Built-in active PFC function
- Class I or Class II installations
- No load power consumption <0.5W
- High efficiency up to 94%
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Built-in 12V/0.5A auxiliary output (12V/0.3A for EPP-100/150)
- Standby 5V@1A with fan, @ 0.6A without fan (EPP-300)
- Built-in remote sense function (EPP-300)
- LED indicator for power on
- 3 years warranty

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

Model No.		EPP-100	EPP-150	EPP-200
Rated Power	Fan	100W (20CFM)	150W (20CFM)	200W (10CFM)
	Convection	75W	100W	140W
AC input voltage range		90~264VAC		80~264VAC
DC adjustment range		-2%~+5% rated output voltage		±5% rated output voltage
Overload protection	Range	105%~145%		115%~150%
	Type	Hiccup mode, auto-recovery		
Over voltage protection	Range	115%~135% rated output voltage		110%~130%
	Type	Shut down o/p voltage, re-power on to recover		
Withstand voltage		I/P-O/P: 3kVAC, I/P-FG:2kVAC, O/P-FG: 0.5kVAC		
Working temperature		-30~+70°C (refer to output derating curve)		
Safety standards		UL62368-1, TUV EN62368-1, EAC TP TC 004 approved		
EMC standards		EN55011 (EPP-300) / EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EAC TP TC 020		
Connection		JST B3P / B4P-VH		JST B3P / B6P-VH
Dimension (LxWxH)(mm)		101.6x 50.8x 29		

100W—Class I EPP-100

Model No.	Output (Convection/20CFM)	Tol.	R&N	Effi.
EPP-100-12	12V, 6.3A / 8.5A	±2%	120mV	91.0%
EPP-100-15	15V, 5A / 6.67A	±2%	150mV	91.0%
EPP-100-24	24V, 3.2A / 4.2A	±1%	240mV	92.0%
EPP-100-27	27V, 2.8A / 3.71A	±1%	240mV	92.5%
EPP-100-48	48V, 1.6A / 2.1A	±1%	300mV	92.5%

150W—Class I EPP-150

Model No.	Output (Convection/20CFM)	Tol.	R&N	Effi.
EPP-150-12	12V, 8.4A / 12.5A	±2%	130mV	91.5%
EPP-150-15	15V, 6.7A / 10.0A	±2%	150mV	92.0%
EPP-150-24	24V, 4.2A / 6.25A	±1%	240mV	93.0%
EPP-150-27	27V, 3.71A / 5.56A	±1%	240mV	92.0%
EPP-150-48	48V, 2.1A / 3.125A	±1%	300mV	92.0%

200W—Class I or II EPP-200

Model No.	Output (Convection/10CFM)	Tol.	R&N	Effi.
EPP-200-12	12V, 11.7A / 16.7A	±2%	100mV	92%
EPP-200-15	15V, 9.4A / 13.4A	±2%	100mV	92%
EPP-200-24	24V, 5.9A / 8.4A	±1%	150mV	93%
EPP-200-27	27V, 5.3A / 7.5A	±1%	150mV	93%
EPP-200-48	48V, 3A / 4.2A	±1%	200mV	94%

Green Open Frame 300~500W Single Output

MEAN WELL

EPP-300
(5"x3")

EPP-400
(5"x3")

Coming Soon

EPP-500
(5"x3")

Features

- Universal AC input / Full range
- Built-in active PFC function
- Class I or Class II installations
- No load power consumption <0.5W
- High efficiency up to 94%
- Protections: Short circuit / Overload / Over voltage / Over temperature
- 12V/0.5A auxiliary output
- Standby @ 0.6A without fan
- P.G/P.F (EPP-500), remote sense function
- LED indicator for power on
- 3 years warranty

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

Model No.		EPP-300	EPP-400	EPP-500
Rated Power	Fan	300W (20.5CFM)	400W (25CFM)	500W (25CFM)
	Convection	200W	250W	320W
AC input voltage range		90~264VAC	80~264VAC	
DC adjustment range		±5% rated output voltage, EAC TP TC 004		
Overload protection	Range	105%~135%	115%~135%	105%~135%
	Type	Hiccup mode, auto-recovery		
Over voltage protection	Range	115%~135% rated output voltage	110%~130%	
	Type	Shut down o/p voltage, re-power on to recover		
Withstand voltage		I/P-O/P: 3kVAC, I/P-FG:2kVAC, O/P-FG: 0.5kVAC	I/P-O/P: 3kVAC, I/P-FG:2kVAC, O/P-FG: 1.5kVAC	
Working temperature		-30~+70°C (refer to output derating curve)		
Safety standards		UL62368-1, TUV EN62368-1, EAC TP TC 004 approved (500W pending)		
EMC standards		EN55011 (EPP-300) / EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EAC TP TC 020		
Connection		JST B5P-VH / Screw terminal		
Dimension (LxWxH)(mm)		127x 76.2x 35		127x 76.2x 40

300W—Class I — EPP-300

Model No.	Output (Convection/20.5CFM)	Tol.	R&N	Effi.
EPP-300-12	12V, 16.67A / 25.0A	±3%	120mV	90.0%
EPP-300-15	15V, 13.33A / 20.0A	±3%	120mV	90.0%
EPP-300-24	4V, 8.33A / 12.5A	±2%	150mV	92.5%
EPP-300-27	27V, 7.4A / 11.12A	±2%	200mV	93.0%
EPP-300-48	48V, 4.17A / 6.25A	±2%	250mV	93.0%

400W—Class I or II — EPP-400

Model No.	Output (Convection/25CFM)	Tol.	R&N	Effi.
EPP-400-12	12V, 20.8A / 33.3A	±3%	120mV	92%
EPP-400-15	15V, 16.7A / 26.7A	±3%	150mV	92%
EPP-400-24	24V, 10.5A / 16.7A	±2%	200mV	93%
EPP-400-27	27V, 9.3A / 14.9A	±1%	200mV	93%
EPP-400-36	36V, 7A / 11.2A	±1%	250mV	93%
EPP-400-48	48V, 5.3A / 8.4A	±1%	250mV	94%

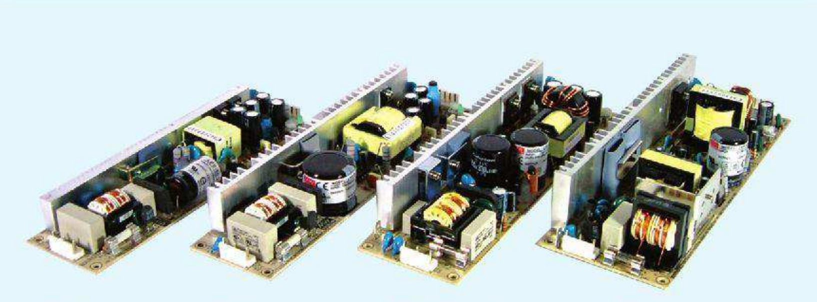
500W—Class I or II — Coming Soon EPP-500

Model No.	Output (Convection/25CFM)	Tol.	R&N	Effi.
EPP-500-12	12V, 26.7A / 41.6A	±3%	120mV	91.5%
EPP-500-15	15V, 21.3A / 33.3A	±3%	120mV	92%
EPP-500-18	18V, 17.8A / 27.8A	±3%	150mV	93%
EPP-500-24	24V, 13.4A / 20.8A	±2%	150mV	93%
EPP-500-27	27V, 11.9A / 18.5A	±2%	200mV	93.5%
EPP-500-36	36V, 8.9A / 13.9A	±1%	200mV	94%
EPP-500-48	48V, 6.7A / 10.4A	±1%	200mV	94%

Open Frame

50~150W Single Output

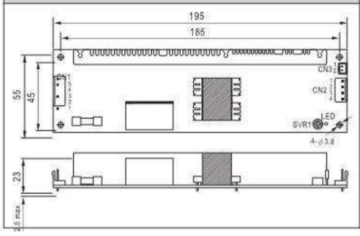
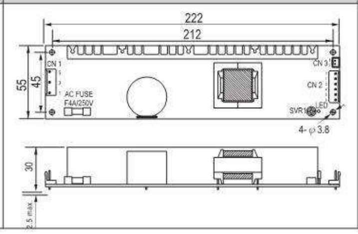
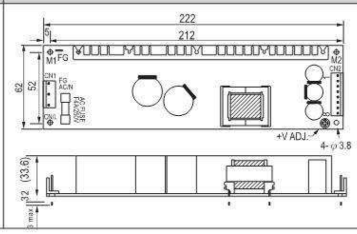
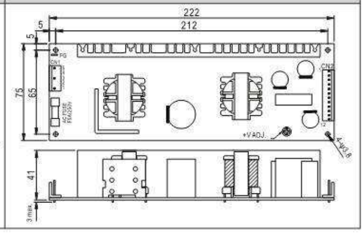
MEAN WELL



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

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	55A
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				
	Type	Hiccup mode, auto recovery			Shut off, AC recycle to re-start	
Withstand voltage		I/P-O/P: 3kVAC, I/P-FG:1.5kVAC(2kVAC for LPP-150), 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		UL62368-1, TUV EN62368-1, EAC TP TC 004 approved				
EMC standards		EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11 (EN61000-6-2 heavy industry level for LPS-50/75 only), EAC TP TC 020				
Connection		JST B5P / B4P-VH	JST B5P / B6P-VH	JST B5P / B8P-VH		JST B5P / B6Px2-VH
Dimension (LxWxH)(mm)		195x 55x 23	222x 55x 30	222x 62x 32	222x 62x 33.6	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%	100mV	70%
LPP-150-5	5V, 0~30A	±2%	100mV	76%
LPP-150-7.5	7.5V, 0~20A	±2%	100mV	80%
LPP-150-12	12V, 0~12.5A	±2%	100mV	82%
LPP-150-13.5	13.5V, 0~11.2A	±2%	100mV	83%
LPP-150-15	15V, 0~10A	±2%	100mV	83%
LPP-150-24	24V, 0~6.3A	±1%	150mV	85%
LPP-150-27	27V, 0~5.6A	±1%	150mV	85%
LPP-150-48	48V, 0~3.2A	±1%	250mV	85%

Industrial Adaptor 12~30W Interchangeable Type

MEAN WELL

GE12 70.7x 40x 38.8 mm
GE18/24/30 81x 43x 40.5 mm

Features

- Interchangeable AC plugs (plug kit sold separately)
- Universal AC input / Full range
- No load power consumption <0.075W
- Energy efficiency Level VI
- Comply with EISA 2007/DoE and EU ErP
- 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 / RCM / FCC / CE
- 2 years warranty

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

Model No.	GE12	GE18	GE24	GE30
AC input voltage range	90~264VAC / 0.4A for GE12; 90~264VAC / 0.7A for GE18/24/30			
AC inrush current (max.)	Cold start, 40A at 100VAC; 80A 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	-10~+50°C (refer to output derating curve)			
Safety standards	UL62368-1, CSA22.2, TUV EN62368-1, CCC GB4943, AS/NZS 60950.1, EAC TP TC 004 approved			
EMC standards	EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, FCC part15 class B, GB9254, GB17625.1			
Length of output cable	100cm of 16AWG for GE12 5~12V and GE18/24 5~12V 150cm of 18AWG for GE12/18 15~48V and GE24 15~48V			
Standard DC plug (refer to page 59 for DC plug list)	P1J: 2.1øx5.5øx11mm / C+, tuning fork type			

Wall-mounted (Interchangeable Type)—12W

Order No. (Main body)	Output	Tol.	R&N	Effi.
GE12I05-P1J	5V, 0~2.00A	±5%	50mV	80.0%
GE12I07-P1J	7.5V, 0~1.33A	±5%	75mV	82.0%
GE12I09-P1J	9V, 0~1.33A	±5%	100mV	84.0%
GE12I12-P1J	12V, 0~1.00A	±3%	120mV	84.0%
GE12I15-P1J	15V, 0~0.80A	±3%	150mV	85.0%
GE12I18-P1J	18V, 0~0.83A	±3%	180mV	85.0%
GE12I24-P1J	24V, 0~0.625A	±3%	240mV	85.5%

Wall-mounted (Interchangeable Type)—18W

Order No. (Main body)	Output	Tol.	R&N	Effi.
GE18I05-P1J	5V, 0~2.40A	±5%	50mV	80.5%
GE18I07-P1J	7.5V, 0~1.73A	±5%	75mV	82.5%
GE18I09-P1J	9V, 0~2.00A	±5%	100mV	85.0%
GE18I12-P1J	12V, 0~1.50A	±3%	120mV	86.0%
GE18I15-P1J	15V, 0~1.20A	±3%	150mV	86.5%
GE18I18-P1J	18V, 0~1.00A	±3%	180mV	87.0%
GE18I24-P1J	24V, 0~0.75A	±3%	240mV	87.0%
GE18I48-P1J	48V, 0~0.375A	±3%	300mV	87.0%

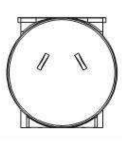
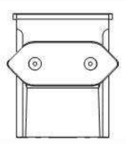
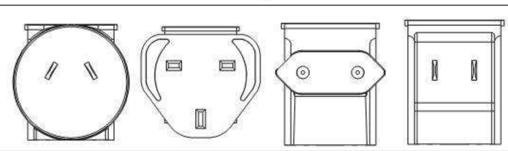
Wall-mounted (Interchangeable Type)—24W

Order No. (Main body)	Output	Tol.	R&N	Effi.
GE24I05-P1J	5V, 0~3.00A	±5%	50mV	81.0%
GE24I07-P1J	7.5V, 0~2.00A	±5%	75mV	83.0%
GE24I09-P1J	9V, 0~2.22A	±5%	100mV	85.5%
GE24I12-P1J	12V, 0~2.00A	±3%	120mV	86.0%
GE24I15-P1J	15V, 0~1.60A	±3%	150mV	86.0%
GE24I18-P1J	18V, 0~1.33A	±3%	180mV	87.0%
GE24I24-P1J	24V, 0~1.00A	±3%	240mV	87.5%
GE24I48-P1J	48V, 0~0.50A	±3%	300mV	89.0%

Wall-mounted (Interchangeable Type)—30W

Order No. (Main body)	Output	Tol.	R&N	Effi.
GE30I12-P1J	12V, 0~2.50A	±3%	120mV	84%
GE30I15-P1J	15V, 0~2.00A	±3%	150mV	86%
GE30I18-P1J	18V, 0~1.66A	±3%	180mV	87%
GE30I24-P1J	24V, 0~1.25A	±3%	240mV	87%

Interchangeable AC Plug Specifically for GE12/18/24/30

AC Plug Type and Order No.				
AC Plug-AU	AC Plug-UK	AC Plug-EU	AC Plug-US	AC Plug-MIX
				
Australian Type	U.K. Type	European Type	U.S. Type	Mixed Four Type

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

Industrial Adaptor 5~15W Desktop & Wall-mounted Type

MEAN WELL

6W Green Adaptor

- Universal AC input / Full range
- No load power consumption < 0.075W
- Energy efficiency Level VI
- Comply with EISA 2007/DoE and EU ErP
- 2 pole US / European type plug
- Class II power (without earth pin)
- Protections: Short circuit / Overload / Over voltage
- Pass LPS
- Fully enclosed plastic case
- Approvals: UL/CUL/FCC for GS06U TUV/CE for GS06E
- 2 years warranty

GS06U
66x 32x 42.5 mm

GS06E
66x 32x 42.5 mm

AC input voltage range ....90~264VAC ; 127~370VDC
AC inrush current(max.) .. Cold start, 50A 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~+50°C (refer to output derating curve)
Safety standards .... UL62368-1, CSA 22.2, TUV EN62368-1, EAC TP TC 004
EMC standards .... FCC part15 class B(U Type); EN55032 class B(E Type)
Length of output cable .....120cm of 18AWG for 5~9V; 180cm of 24AWG for 12~48V

Order No.	Output	Tol.	R&N	Effi.
GS06□-1P1J	5V, 0~1.00A	±5%	50mV	75.0%
GS06□-11P1J	7.5V, 0~0.80A	±5%	80mV	80.5%
GS06□-2P1J	9V, 0~0.66A	±5%	80mV	79.5%
GS06□-3P1J	12V, 0~0.50A	±3%	100mV	79.5%
GS06□-4P1J	15V, 0~0.40A	±3%	120mV	80.5%
GS06□-5P1J	18V, 0~0.33A	±3%	150mV	81.5%
GS06□-6P1J	24V, 0~0.25A	±2%	180mV	82.0%
GS06□-8P1J	48V, 0~0.125A	±2%	200mV	85.0%

□ = U/E ; U: American 2P, E: European 2P

12W Green Adaptor

- Universal AC input / Full range
- No load power consumption < 0.3W
- Energy efficiency Level V
- Comply with EISA 2007 and EU ErP
- 2 pole US / European type plug
- Class II power (without earth pin)
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Pass LPS
- Fully enclosed plastic case
- Approvals: UL/CUL/BSMI/CB/FCC for GS12U TUV/CB/CE for GS12E
- 2 years warranty

GS12U
65x 47x 26.5 mm

GS12E
65x 47x 26.5 mm

AC input voltage range .... 90~264VAC ; 127~370VDC
AC inrush current(max.) .. Cold start, 45A 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~+50°C (refer to output derating curve)
Safety standards ...UL62368-1, CSA 22.2, BSMI CNS14336, TUV EN62368-1, EAC TP TC 004
EMC standards .... EN55032, EN61204-3, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, FCC part15 class B

Order No.	Output	Tol.	R&N	Effi.
GS12□ 05-P1I	5V, 0~2.00A	±5%	75mV	76.0%
GS12□ 07-P1I	7.5V, 0~1.60A	±4%	90mV	78.5%
GS12□ 09-P1I	9V, 0~1.33A	±4%	90mV	78.5%
GS12□ 12-P1I	12V, 0~1.00A	±3%	120mV	78.5%
GS12□ 15-P1I	15V, 0~0.80A	±3%	150mV	80.0%
GS12□ 18-P1I	18V, 0~0.67A	±3%	180mV	80.0%
GS12□ 24-P1I	24V, 0~0.50A	±3%	200mV	80.5%

□ = U/E ; U: American 2P, E: European 2P

5W Green USB Adaptor

GS05U-USB
41.86x 32.76x 23.8 mm

GS05E-USB
41.54x 30.5x 20 mm

- Universal AC input / Full range
- No load power consumption < 0.075W
- Energy efficiency Level VI
- Comply with EISA 2007/DoE and EU ErP
- Compact size
- 2 pole US / European type plug
- Class II power (without earth pin)
- 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
Overload protection .... 105%~135% rated output power, hiccup mode, auto-recovery
Over voltage protection ..... 105%~200% rated output voltage, hiccup mode, auto-recovery
Withstand voltage .... I/P-O/P: 4242VDC, 1 minute
Working temperature .... -20~+50°C (refer to output derating curve)
Safety standards .... U-Type: UL62368-1, CSA22.2, EAC TP TC 004 approved E-Type: TUV EN62368-1, EAC TP TC 004 approved
EMC standards .... FCC part15 class B(U Type); EN55032 class B(E Type)
Standard DC plug .... USB Type A

Order No.	Output	Tol.	R&N	Effi.
GS05U-USB	5V, 0~1A	±4%	90mV	74.0%
GS05E-USB	5V, 0~1A	±4%	80mV	74.5%

15W Green Adaptor

- Universal AC input / Full range
- No load power consumption < 0.075W
- Energy efficiency Level VI
- Comply with EISA 2007/DoE and EU ErP
- Protections: Short circuit / Overload / Over voltage
- Pass LPS
- Fully enclosed plastic case
- 2 years warranty

GS15A
100x 58.5x 32.8 mm

GS15B
100x 58.5x 32.8 mm

GS15U
71x 34x 50 mm

GS15E
71x 34x 50 mm

AC input voltage range ..... 90~264VAC ; 127~370VDC
AC inrush current(max.) .... Cold start, 50A 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~+50°C (refer to output derating curve)
Safety standards ....UL62368-1, CSA 22.2, TUV EN62368-1, EAC TP TC 004 approved
EMC standards .... EN55032-B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,11,FCC part 15 class B
Length of output cable .... 120cm of 18AWG for 5~15V; 180cm of 18AWG for 18~48V
Standard DC plug ....P1J: 2.1ø x5.5ø x11mm / C+, tuning fork type (refer to page 59 for DC plug list)

Order No.	Output	Tol.	R&N	Effi.
GS15□-1P1J	5.0V, 0~2.40A	±5%	50mV	80.0%
GS15□-11P1J	7.5V, 0~1.60A	±5%	80mV	82.5%
GS15□-2P1J	9.0V, 0~1.66A	±5%	80mV	85.0%
GS15□-3P1J	12V, 0~1.25A	±3%	80mV	85.0%
GS15□-4P1J	15V, 0~1.00A	±3%	100mV	85.0%
GS15□-5P1J	18V, 0~0.83A	±3%	120mV	85.0%
GS15□-6P1J	24V, 0~0.625A	±2%	150mV	85.5%
GS15□-8P1J	48V, 0~0.31A	±2%	240mV	87.0%

□ = A/B/E/U ; A:IEC320-C14, B: IEC320-C8
E: European 2P, U: American 2P

GS18/25A
93x 54x 36 mm

GS18/25B
79x 54x 33 mm

GS18/25/36U
79x 54x 33 mm

GS18/25/36E
79x 54x 33 mm

Features

- Universal AC input / Full range
- No load power consumption < 0.3W
- Energy efficiency Level V
- Comply with EISA 2007, NRCan, AU/NZ MEPS and EU ErP
- 2 pole US / European plug or IEC320-C14/C8
- Class II power (without earth pin) for B/U/E type
  Class I power (with earth pin) only for A type
- Protections: Short circuit / Overload / Over voltage
- Fully enclosed plastic case
- LED indicator for power on (except for GS36)
- Pass LPS
- Approvals:
  A type: UL / CUL / TUV / BSMI / CCC / PSE / CB / FCC / CE / EAC
  B type: UL / CUL / TUV / BSMI / CCC / CB / FCC / CE / EAC
  U type: UL / CUL / BSMI / CB / FCC / EAC
  E type: TUV / CB / CE / EAC
- 2 years warranty

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

Order No.		GS18☐	GS25☐	GS36☐
AC input voltage range		90~264VAC ; 135~370VDC		
AC inrush current (max.)		Cold start, 45A at 230VAC		Cold start, 60A at 230VAC
Overload protection	Range	105%~150% rated output power		110%~250% rated output power
	Type	Hiccup mode, auto-recovery		
Over voltage protection		105%~135% rated output voltage, clamp by zener diode		
Withstand voltage		I/P-O/P: 4242VDC, 1 minute		
Working temperature		0~+50°C (refer to output derating curve)		-20~+50°C (refer to output derating curve)
Safety standards		A-Type: UL62368-1, CSA 22.2, TUV EN62368-1, BSMI CNS14336, PSE J62368-1(GS18A/GS25A-5V~28V only), CCC GB4943, EAC TP TC 004 approved B-Type: UL62368-1, CSA 22.2, TUV EN62368-1, BSMI CNS14336, CCC GB4943, EAC TP TC 004 approved U-Type: UL62368-1, CSA22.2, BSMI CNS14336, EAC TP TC 004 approved E-Type: TUV EN62368-1, EAC TP TC 004 approved		
EMC standards		EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11(A/B/E type); FCC part 15 class B, CNS13438(A/B/U type); GB9254(A/B type)		
Length of output cable		120cm of 16AWG for 5~12V ; 180cm of UL1185, 18AWG for 15~48V		100cm of UL1185, 16AWG
Standard DC plug (refer to page 59 for DC plug list)		P1J: 2.1øx5.5øx11mm / C+, tuning fork type		

Desktop / Wall-mounted — 18W

Order No.	Output	Tol.	R&N	Effi.
GS18☐05-P1J	5V, 0~3.00A	±5%	50mV	79.5%
GS18☐07-P1J	7.5V, 0~2.00A	±5%	80mV	82.0%
GS18☐09-P1J	9V, 0~2.00A	±5%	80mV	83.0%
GS18☐12-P1J	12V, 0~1.50A	±3%	80mV	85.0%
GS18☐15-P1J	15V, 0~1.20A	±3%	100mV	85.0%
GS18☐18-P1J	18V, 0~1.00A	±3%	150mV	85.0%

Order No.	Output	Tol.	R&N	Effi.
GS18☐24-P1J	24V, 0~0.75A	±2%	180mV	86.0%
GS18☐28-P1J	28V, 0~0.64A	±2%	240mV	86.5%
GS18☐48-P1J	48V, 0~0.375A	±2%	240mV	87.0%

☐=A / B / U / E
Class I — A: IEC320-C14
Class II — B: IEC320-C8, U: American 2P, E: European 2P

Desktop / Wall-mounted — 25W

Order No.	Output	Tol.	R&N	Effi.
GS25☐05-P1J	5V, 0~4.00A	±5%	50mV	78.5%
GS25☐07-P1J	7.5V, 0~2.93A	±5%	80mV	81.5%
GS25☐09-P1J	9V, 0~2.77A	±5%	80mV	82.5%
GS25☐12-P1J	12V, 0~2.08A	±3%	80mV	84.5%
GS25☐15-P1J	15V, 0~1.66A	±3%	100mV	84.5%
GS25☐18-P1J	18V, 0~1.38A	±3%	150mV	84.5%

Order No.	Output	Tol.	R&N	Effi.
GS25☐24-P1J	24V, 0~1.04A	±2%	180mV	85.5%
GS25☐28-P1J	28V, 0~0.89A	±2%	240mV	85.5%
GS25☐48-P1J	48V, 0~0.52A	±2%	240mV	87.0%

☐=A / B / U / E
Class I — A: IEC320-C14
Class II — B: IEC320-C8, U: American 2P, E: European 2P

Wall-mounted — 36W

Order No.	Output	Tol.	R&N	Effi.
GS36☐05-P1J	5V, 0~4.50A	±5%	90mV	76.5%
GS36☐09-P1J	9V, 0~3.50A	±5%	90mV	81.5%
GS36☐12-P1J	12V, 0~3.00A	±3%	100mV	84.5%

Order No.	Output	Tol.	R&N	Effi.
GS36☐24-P1J	24V, 0~1.50A	±2%	180mV	85.5%
GS36☐48-P1J	48V, 0~0.75A	±2%	240mV	87.5%

☐=U / E ; U: American 2P, E: European 2P

Industrial Adaptor 18~36W Desktop & Wall-mounted Type

MEAN WELL

GST18/25A
93x 54x 36 mm

GST18/25/36B
79x 54x 33 mm

GST18/25/36U
79x 54x 33 mm

GST18/25/36E
79x 54x 33 mm

Features

- Global certificates
- Universal AC input / Full range
- No load power consumption < 0.075W
- Energy efficiency Level VI
- Comply with EISA 2007 / DoE, NRCan, AU/NZ MEPS, Korea K-MEPS, EU ErP and CoC Version 5
- -30~+70°C wide range working temperature
- Class II power (without earth pin) for B/U/E type
  Class I power (with earth pin) only for A type
- Protections: Short circuit / Overload / Over voltage
- Fully enclosed plastic case
- LED indicator for power on
- Pass LPS
- Approvals:
  A type: UL/CUL/TUV/BSMI/CCC/PSE/RCM/KC/BIS/EAC/SIRIM/CB/FCC/CE
  B type: UL/CUL/TUV/BSMI/CCC/PSE/RCM/KC/BIS/EAC/SIRIM/CB/FCC/CE
  U type: UL/CUL/BSMI/EAC/CB/FCC
  E type: TUV/EAC/SIRIM/CB/CE
- 3 years warranty

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

Order No.		GST18☐	GST25☐	GST36☐
AC input voltage range		85~264VAC		
AC inrush current (max.)		Cold start, 70A at 230VAC		
Overload protection	Range	110%~150% rated output power		110%~250% rated output power
	Type	Hiccup mode, auto-recovery		
Over voltage protection		110%~140% rated output voltage, clamp by zener diode		
Withstand voltage		I/P-O/P: 4242VDC, 1 minute		
Working temperature		-30~+70°C (refer to output derating curve)		
Safety standards		A-Type: UL62368-1, CSA 22.2, TUV EN62368-1, BSMI CNS14336, CCC GB4943, PSE J62368-1, AS/NZS62368.1, KC K62368-1, BIS IS13252, EAC TP TC004; SIRIM MS IEC62368-1(optional) approved B-Type: UL62368-1, CSA 22.2, TUV EN62368-1, BSMI CNS14336, CCC GB4943, PSE J62368-1, AS/NZS62368.1, KC K62368-1, BIS IS13252, EAC TP TC004; SIRIM MS IEC62368-1(optional) approved U-Type: UL62368-1, CSA22.2, BSMI CNS14336, EAC TP TC004 approved E-Type: TUV EN62368-1, EAC TP TC004; SIRIM MS IEC62368-1(optional) approved		
EMC standards		EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11(A/B/E type); FCC part 15 class B, CNS13438 class B(A/B/U type); GB9254(A/B type)		
Length of output cable		120cm of UL1185, 16AWG for 5~12V ; 180cm of UL1185, 18AWG for 15~48V	100cm of UL2468, 16AWG for 5~12V; 180cm of UL1185, 18AWG for 15~48V	100cm of UL2468, 16AWG
Standard DC plug (refer to page 59 for DC plug list)		P1J: 2.1øx5.5øx11mm / C+, tuning fork type		

Desktop / Wall-mounted — 18W

(optional)

Order No.	Output	Tol.	R&N	Effi.
GST18☐05-P1J	5V, 0~3.00A	±5%	80mV	81.0%
GST18☐07-P1J	7.5V, 0~2.00A	±5%	80mV	85.0%
GST18☐09-P1J	9V, 0~2.00A	±5%	80mV	85.0%
GST18☐12-P1J	12V, 0~1.50A	±3%	80mV	86.0%
GST18☐15-P1J	15V, 0~1.20A	±3%	100mV	87.0%
GST18☐18-P1J	18V, 0~1.00A	±3%	150mV	88.0%
GST18☐24-P1J	24V, 0~0.75A	±2%	150mV	88.0%
GST18☐28-P1J	28V, 0~0.64A	±2%	150mV	88.5%
GST18☐48-P1J	48V, 0~0.375A	±2%	150mV	89.0%

☐=A / B / U / E
Class I — A: IEC320-C14
Class II — B: IEC320-C8, U: American 2P, E: European 2P

Desktop / Wall-mounted — 25W

(optional)

Order No.	Output	Tol.	R&N	Effi.
GST25☐05-P1J	5V, 0~4.00A	±5%	80mV	81.5%
GST25☐07-P1J	7.5V, 0~2.93A	±5%	80mV	84.5%
GST25☐09-P1J	9V, 0~2.55A	±5%	80mV	85.0%
GST25☐12-P1J	12V, 0~2.08A	±3%	80mV	86.5%
GST25☐15-P1J	15V, 0~1.66A	±3%	100mV	87.0%
GST25☐18-P1J	18V, 0~1.38A	±3%	100mV	87.0%
GST25☐24-P1J	24V, 0~1.04A	±2%	150mV	88.0%
GST25☐28-P1J	28V, 0~0.89A	±2%	150mV	88.0%
GST25☐48-P1J	48V, 0~0.52A	±2%	150mV	89.0%

☐=A / B / U / E
Class I — A: IEC320-C14
Class II — B: IEC320-C8, U: American 2P, E: European 2P

Wall-mounted — 36W

(optional)

Order No.	Output	Tol.	R&N	Effi.
GST36☐05-P1J	5V, 0~4.30A	±5%	90mV	82.0%
GST36☐09-P1J	9V, 0~3.11A	±5%	90mV	86.0%
GST36☐12-P1J	12V, 0~3.00A	±3%	100mV	87.5%
GST36☐24-P1J	24V, 0~1.50A	±2%	150mV	88.5%
GST36☐48-P1J	48V, 0~0.75A	±2%	200mV	90.0%

☐=B / U / E ; B: IEC320-C8; U: American 2P, E: European 2P

Industrial Adaptor

40~120W Desktop Type

MEAN WELL

GST40/60A 125x 50x 31.5 mm | GST90A 145x 60x 32 mm | GST120A 167x 67x 35 mm

NOTICE

Since energy efficiency level VI is not compulsory in some countries or areas, energy efficiency level V GS40~280 will keep be sold without being showed on catalog. GST40A~280A are strongly recommended to new design.

Features

- Global certificates
- Universal AC input / Full range
- No load power consumption <0.075W for GST40A/60A; <0.15W for GST90A/120A
- Energy efficiency Level VI
- Comply with EISA 2007 / DoE, NRCan, AU/NZ MEPS, Korea K-MEPS, EU ErP and CoC Version 5
- Built-in active PFC function for GST90A/120A
- -30~+70°C wide range working temperature
- Class I power (with earth pin)
- Protections: Short circuit / Over voltage / Overload / Over temp. (except for GST40A)
- Fully enclosed plastic case
- LED indicator for power on
- Pass LPS (except for GST90A/120A)
- 3 years warranty

General Specification

(GST90A/120A only) (optional)

Order No.		GST40A	GST60A	GST90A	GST120A
AC input voltage range		90~264VAC; 127~370VDC			85~264VAC; 120~370VDC
AC inrush current (max.)		Cold start, 65A at 230VAC		Cold start, 70A at 230VAC	
Overload protection	Range	105%~150% rated output power		110%~150%	105%~160%
	Type	Hiccup mode, auto-recovery			
Over voltage protection		105%~135% rated output voltage			
Setup, rise, hold up time		1000ms, 50ms, 50ms		1000ms, 50ms, 20ms	2000ms, 30ms, 20ms
Withstand voltage		I/P-O/P:3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC			I/P-FG: 3kVAC
Working temperature		-30~+70°C (refer to output derating curve)			
Safety standards		UL62368-1, CSA 22.2, TUV EN62368-1, BSMI CNS14336, CCC GB4943, PSE J62368-1, AS/NZS60950.1, KC K62368-1, BIS IS13252, EAC TP TC004; SIRIM MS IEC62368-1(optional) approved			
EMC standards		EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, CNS13438, GB9254, FCC part15 class B, EAC TP TC 020			
Length of output cable		GST40A: 100cm of UL1185, 16AWG for 5~15V; 180cm of UL1185, 18AWG for 18~48V GST60A: 100cm of UL2464, 16AWG for 5~9V; 100cm of UL1185, 16AWG for 12~15V; 150cm of UL1185, 16AWG for 18V; 180cm of UL1185, 18AWG for 24~48V		100cm of UL1185, 14AWG for 12~15V; 120cm of UL1185, 16AWG for 19~48V	100cm of UL2464, 16AWGx4C for 12V 120cm of UL2464, 18AWGx4C for 15~48V
Standard DC plug (refer to page 59 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 P1M: 2.5øx5.5øx11mm/C+, tuning fork type (20~48V only)

Desktop (IEC 320-C14 / Class I) — 40W

Order No.	Output	Tol.	R&N	Effi.
GST40A05-P1J	5V, 0~5.00A	±5%	120mV	84.5%
GST40A07-P1J	7.5V, 0~5.34A	±5%	120mV	87.5%
GST40A09-P1J	9V, 0~4.45A	±5%	120mV	88.5%
GST40A12-P1J	12V, 0~3.34A	±3%	120mV	89.5%
GST40A15-P1J	15V, 0~2.67A	±3%	120mV	90.0%
GST40A18-P1J	18V, 0~2.22A	±3%	120mV	90.0%
GST40A24-P1J	24V, 0~1.67A	±2.5%	150mV	91.0%
GST40A48-P1J	48V, 0~0.84A	±2.5%	200mV	92.0%

Desktop (IEC 320-C14 / Class I) — 60W

Order No.	Output	Tol.	R&N	Effi.
GST60A05-P1J	5V, 0~6.00A	±5%	120mV	85.5%
GST60A07-P1J	7.5V, 0~6.00A	±5%	120mV	88.5%
GST60A09-P1J	9V, 0~6.00A	±5%	120mV	89.0%
GST60A12-P1J	12V, 0~5.00A	±3%	120mV	89.5%
GST60A15-P1J	15V, 0~4.00A	±3%	120mV	89.5%
GST60A18-P1J	18V, 0~3.33A	±3%	120mV	89.5%
GST60A24-P1J	24V, 0~2.50A	±3%	150mV	90.5%
GST60A48-P1J	48V, 0~1.25A	±2.5%	200mV	92.0%

Desktop (IEC 320-C14 / Class I) — 90W

Order No.	Output	Tol.	R&N	Effi.
GST90A12-P1M	12V, 0~6.67A	±5%	120mV	89.0%
GST90A15-P1M	15V, 0~6.00A	±5%	150mV	89.5%
GST90A19-P1M	19V, 0~4.74A	±4%	180mV	90.0%
GST90A24-P1M	24V, 0~3.75A	±3%	200mV	90.0%
GST90A48-P1M	48V, 0~1.87A	±2.5%	200mV	91.0%

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

Order No.	Output	Tol.	R&N	Effi.
GST120A12-R7B	12V, 0~8.5A	±5%	120mV	88.5%
GST120A15-R7B	15V, 0~7.0A	±5%	120mV	89.0%
GST120A20-□	20V, 0~6.0A	±5%	150mV	90.0%
GST120A24-□	24V, 0~5.0A	±3%	180mV	90.5%
GST120A48-□	48V, 0~2.5A	±2.5%	200mV	91.0%

□= P1M / R7B

Industrial Adaptor
160~280W Desktop Type

MEAN WELL

GST160A 175x 72x 35 mm

GST220A 210x 85x 46 mm

GST280A 220x 95x 46 mm

Features
- Global certificates
- Universal AC input / Full range
- No load power consumption<0.15W(GST280A <0.5W)
- Energy efficiency Level VI
- Comply with EISA 2007 / DoE, NRCan, AU/NZ MEPS, Korea K-MEPS, EU ErP and CoC Version 5
- Built-in active PFC function
- 3 pole AC inlet IEC320-C14
- Class I power (with earth pin)
- Fanless design, high operating temperature up to +70°C
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Fully enclosed plastic case
- LED indicator for power on
- 3 years warranty

General Specification

(optional)

Order No.		GST160A	GST220A	GST280A
AC input voltage range		85~264VAC ; 120~370VDC		
AC inrush current (max.)		Cold start, 120A at 230VAC		
Overload protection	Range	105%~135% rated output power		
	Type	Hiccup mode, auto-recovery		
Over voltage protection	Range	105%~150% rated output power		
	Type	Shut down o/p voltage, re-power on to recover		
Set up, rise, hold up time		2000ms, 50ms, 20ms		2000ms, 20ms, 16ms
Withstand voltage		I/P-O/P: 3kVAC, 1 minute		
Working temperature		-30~+70°C (refer to output derating curve)		
Safety standards		UL62368-1, CSA 22.2, TUV EN62368-1, BSMI CNS14336, CCC GB4943, PSE J62368-1, AS/NZS60950.1, KC K62368-1, BIS IS13252, EAC TP TC004; SIRIM MS IEC62368-1(optional) approved (UL62368-1, CSA C22.2, TUV EN62368-1, BSMI CNS14336, CCC GB4943, AS/NZS62368.1, PSE J62368-1 for GST220A36-R7B)		
EMC standards		EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, FCC part 15 class B, CNS13438, GB9254, GB17625.1, EAC TP TC 020		
Length of output cable		100cm of UL2464, 18AWGx4C for 12V 120cm of UL2464, 18AWGx4C for 15~48V	100cm of UL2464, 16AWGx4C	
Standard DC plug (refer to page 59 for DC plug list)		R7B: Power DIN 4P with lock type		6P/4.2mm pitch, MOLEX 39-01-2060(power supply side); MOLEX 39-01-2061(customer side, not provided with GST280A)

Desktop (IEC320-C14/Class I) — 160W

Order No.	Output	Tol.	R&N	Effi.
GST160A12-R7B	12V, 0~11.5A	±5%	80mV	90.0%
GST160A15-R7B	15V, 0~9.6A	±5%	100mV	91.0%
GST160A20-R7B	20V, 0~8.0A	±4%	150mV	93.0%
GST160A24-R7B	24V, 0~6.67A	±3%	180mV	93.0%
GST160A36-R7B	36V, 0~4.44A	±3%	180mV	92.0%
GST160A48-R7B	48V, 0~3.34A	±3%	240mV	94.0%

Desktop (IEC320-C14/Class I) — 220W

Order No.	Output	Tol.	R&N	Effi.
GST220A12-R7B	12V, 0~15.0A	±5%	80mV	90.0%
GST220A15-R7B	15V, 0~13.4A	±5%	100mV	90.0%
GST220A20-R7B	20V, 0~11.0A	±4%	120mV	92.0%
GST220A24-R7B	24V, 0~9.20A	±3%	150mV	93.5%
NEW GST220A36-R7B	36V, 0~6.10A	±3%	200mV	93.0%
GST220A48-R7B	48V, 0~4.60A	±2%	200mV	94.5%

Desktop (IEC320-C14/Class I) — 280W

Order No.	Output	Tol.	R&N	Effi.
GST280A12-C6P	12V, 0~21A	±5%	120mV	90.0%
GST280A15-C6P	15V, 0~17A	±5%	120mV	90.0%
GST280A20-C6P	20V, 0~13A	±4%	150mV	92.0%
GST280A24-C6P	24V, 0~11.67A	±3%	200mV	93.0%
GST280A48-C6P	48V, 0~5.84A	±2%	200mV	94.0%

Optional Grayish Model

Optional grayish models (PANTONE Cool Gray 2C) are available for GST&GSM18/25/36 series. MOQ is 200pcs per model. Please contact MEAN WELL sales representatives for more details.

Industrial Adaptor 12~25W Slim Wall-mounted

MEAN WELL

Features

- Universal AC input / Full range
- No load power consumption <0.075W
- Energy efficiency level VI
- Comply with EISA 2007/DoE, EU ErP
- 2 pole US/European type plug
- Class II power (without earth pin)
- Protections: Short citcuit / Over load / Over voltage
- Pass LPS
- Fully enclosed plastic case
- Approvals:
  U type: UL / CUL / CB / FCC; E type: TUV / CB / CE
- 3 years warranty

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

(U-Type) (E-Type) (U-Type only)

Model No.		SGA12□	SGA18□	SGA25□
AC input voltage range		90~264VAC; 127~370VDC		
AC inrush current (max.)		Cold start, 60A at 230VAC	Cold start, 45A at 230VAC	Cold start, 60A at 230VAC
DC adjustment range		±10% rated output voltage		
Overload protection	Range	110%~250% rated output power	120%~180% rated output power	
	Type	Hiccup mode, auto recovery		
Over voltage protection	Range	110%~140% rated output voltage		
	Type	Clamp by Zener diode		
Setup, rise, hold up time		1300ms, 50ms, 12ms	300ms, 30ms, 16ms	300ms, 60ms, 18ms
Withstand voltage		I/P-O/P: 4242VDC		
Working temperature		-20~+60°C (refer to output derating curve)		
Safety standards		U-Type: UL62368-1, CSA22.2, EAC TP TC 004 approved; E-Type: TUV EN62368-1, EAC TP TC 004 approved		
EMC standards		U-Type: FCC part15 class B; E-Type: EN55032 class B, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3		
Length of output cable		100cm of 18AWG for SGA12□05~07-P1J 120cm of 22AWG for SGA12□09-P1J 180cm of 24AWG for SGA12□12~48-P1J	100cm of 16AWG for 5~9V 100cm of 18AWG for 12V 150cm of 22AWG for 15~48V	100cm of 16AWG for 5~12V 180cm of 18AWG for 15~18V 180cm of 20AWG for 24~48V
Standard DC Plug (refer to page 59 for DC plug list)		USB: Type A; P1J: 2.1øx5.5øx11mm / C+, tuning fork type		
Dimension (LxWxH)(mm)		62.2x 27.4x 39.7	75.5x 32x 47.5	

Wall-mounted — 12W

Model No.	Output	Tol.	R&N	Effi.
SGA12□05-USB	5V, 2.40A	±5%	50mV	80.0%
SGA12□05-P1J	5V, 2.40A	±5%	50mV	80.0%
SGA12□07-P1J	7.5V, 1.60A	±5%	50mV	83.0%
SGA12□09-P1J	9V, 1.33A	±3%	80mV	83.0%
SGA12□12-P1J	12V, 1.00A	±3%	80mV	83.0%
SGA12□15-P1J	15V, 0.80A	±3%	80mV	84.5%
SGA12□18-P1J	18V, 0.666A	±3%	80mV	85.0%
SGA12□24-P1J	24V, 0.50A	±2%	100mV	85.0%
SGA12□48-P1J	48V, 0.25A	±2%	100mV	86.0%

□ = U/E; U: American 2P, E: European 2P

Wall-mounted — 18W

Model No.	Output	Tol.	R&N	Effi.
SGA18□05-P1J	5V, 3.00A	±5%	80mV	80.5%
SGA18□09-P1J	9V, 2.00A	±5%	80mV	84.5%
SGA18□12-P1J	12V, 1.50A	±3%	80mV	84.0%
SGA18□15-P1J	15V, 1.20A	±3%	80mV	84.0%
SGA18□18-P1J	18V, 1.00A	±3%	80mV	84.5%
SGA18□24-P1J	24V, 0.75A	±2%	80mV	85.0%
SGA18□48-P1J	48V, 0.375A	±2%	120mV	86.0%

□ = U/E; U: American 2P, E: European 2P

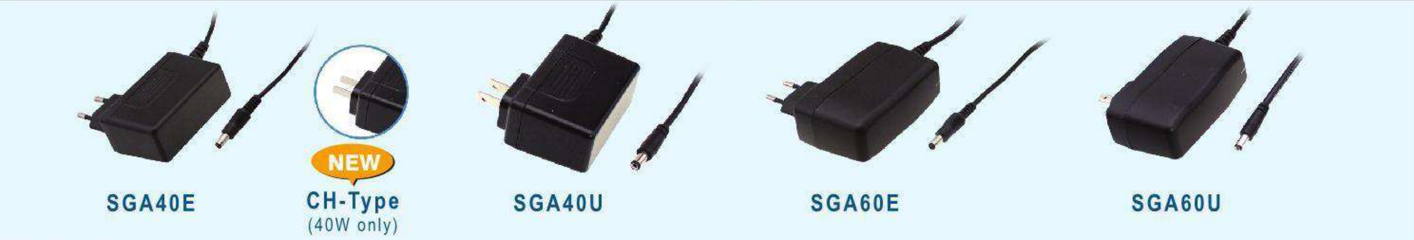
Wall-mounted — 25W

Model No.	Output	Tol.	R&N	Effi.
SGA25□05-P1J	5V, 4.00A	±5%	80mV	82.0%
SGA25□07-P1J	7.5V, 2.93A	±5%	80mV	85.5%
SGA25□09-P1J	9V, 2.77A	±5%	80mV	86.0%
SGA25□12-P1J	12V, 2.08A	±3%	80mV	86.0%
SGA25□15-P1J	15V, 1.66A	±3%	80mV	86.5%
SGA25□18-P1J	18V, 1.38A	±3%	80mV	86.5%
SGA25□24-P1J	24V, 1.04A	±2%	80mV	87.0%
SGA25□48-P1J	48V, 0.52A	±2%	120mV	88.5%

□ = U/E; U: American 2P, E: European 2P

Industrial Adaptor 40W&60W Slim Wall-mounted

MEAN WELL



Features

- Universal AC input / Full range
- No load power consumption <0.075W for SGA40 and SGA60 5~7.5V; <0.15W for SGA60 9~48V
- Energy efficiency Level VI
- Comply with EISA 2007/DoE, EU ErP
- 2 pole US/European type plug
- Class II power (without earth pin)
- Protections: Short circuit / Overload / Over voltage
- Pass LPS
- Fully enclosed plastic case
- LED indicator for power on (60W only)
- 3 year warranty

CB CE

General Specification

(40W only)

Model No.	SGA40□	SGA60□
AC input voltage range	90~264VAC; 127~370VDC	
AC inrush current (max.)	Cold start, 70A at 230VAC	Cold start, 80A at 230VAC
Overload protection	Hiccup mode, auto recovery	
Over voltage protection	110%~140% rated output voltage, clamp by Zener diode	
Setup, rise, hold up time	500ms, 100ms, 12ms	500ms, 50ms, 12ms
Withstand voltage	I/P-O/P:4242VDC, 1 minute	
Working temperature	-20~+50°C (refer to output derating curve)	
Safety standards	U-Type: UL62368-1, CSA 22.2, EAC TP TC004 approved; E-Type: TUV EN62368-1, EAC TP TC 004 approved; CH-Type: GB4943 (40W only)	
EMC standards	U-Type: FCC part15 Class B; E-Type: EN55032 Class B; CH-Type: GB9254(40W only)	
Length of output cable	100cm of 14AWG for 5V 100cm of 16AWG for 9~15V 150cm of 20AWG for 18~48V	100cm of 14AWG for 5~9V 100cm of 16AWG for 12~18V 150cm of 18AWG for 24~48V
Standard DC Plug	P1J: 2.1øx5.5øx11mm/C+, turning fork type	
Dimension (LxWxH)(mm)	75.5x 32x 47.5	93.5x 35x 51.5

Wall-mounted — 40W

Order No.	Output	Tol.	R&N	Effi.
SGA40□05-P1J	5V, 0~5.00A	±5%	120mV	84.0%
SGA40□09-P1J	9V, 0~4.44A	±5%	120mV	87.0%
SGA40□12-P1J	12V, 0~3.33A	±3%	120mV	86.5%
SGA40□15-P1J	15V, 0~2.66A	±2%	120mV	86.5%
SGA40□18-P1J	18V, 0~2.22A	±2%	120mV	87.0%
SGA40□24-P1J	24V, 0~1.67A	±2%	150mV	88.0%
SGA40□48-P1J	48V, 0~0.84A	±2%	150mV	89.0%

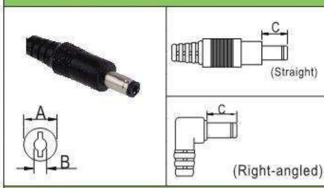
□=U / E / CH, U: American 2P, E: European 2P, CH: China 2P

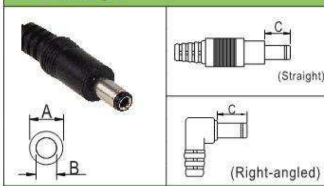
Wall-mounted — 60W

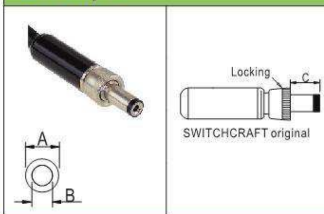
Order No.	Output	Tol.	R&N	Effi.
SGA60□05-P1J	5V, 0~6.00A	±5%	80mV	84%
SGA60□07-P1J	7.5V, 0~6.00A	±5%	80mV	86%
SGA60□09-P1J	9V, 0~5.50A	±5%	80mV	87%
SGA60□12-P1J	12V, 0~5.00A	±3%	80mV	88%
SGA60□15-P1J	15V, 0~4.00A	±3%	80mV	87%
SGA60□18-P1J	18V, 0~3.33A	±2%	80mV	88%
SGA60□24-P1J	24V, 0~2.50A	±2%	100mV	88%
SGA60□48-P1J	48V, 0~1.25A	±2%	120mV	91%

□=U / E, U: American 2P, E: European 2P

Optional DC Plug List

Tuning Fork Style	Type No.	A OD	B ID	C L
 (Straight)	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
(Right-angled)	P1IR	5.5	2.1	9.5
	P1JR	5.5	2.1	11.0
	P1LR	5.5	2.5	9.5
	P1MR	5.5	2.5	11.0

Barrel Style	Type No.	A OD	B ID	C L
 (Straight)	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
(Right-angled)	P2IR	5.5	2.1	9.5
	P2JR	5.5	2.1	11.0
	P2LR	5.5	2.5	9.5
	P2MR	5.5	2.5	11.0

Lock Style	Type No.	A OD	B ID	C L
 Locking, SWITCHCRAFT original	P2S (S761K)	5.53	2.03	12.06
	P2K (761K)	5.53	2.54	12.06
	P2C (S760K)	5.53	2.03	9.52
	P2D (760K)	5.53	2.54	9.52

Mini Pin Style	Type No.	A OD	B ID	C L
 EIAJ	P3A	2.35	0.7	11.0
	P3B	4.0	1.7	11.0
	P3C	4.75	1.7	11.0

Mini. DIN 4 Pin with lock (male)	Type No.	PIN No.	Output
 KYCON KPPX-4P equivalent	R7B	1	+Vo
		2	-Vo
		3	-Vo
		4	+Vo

DIN 5 Pin (male)	Type No.	Pin No.	Output
	R1B	1	-Vo
		2	-Vo
		3	+Vo
		4	-Vo
		5	+Vo

Stripped and tinned leads	Type No.	PIN No.	Output
 Length of Land L1 by request (MW 's standard length, L: 25 mm, L1: 5 mm)	by customer	1	+Vo
		2	-Vo

► Minimum order quantity is varied for different models.

► Other options available by request, please refer to specification for more detail.

Industrial Adaptor 29~50W Triple Output Desktop Type

MEAN WELL

GP25A

GP25B

GP50A

Features

- Universal AC input / Full range
- No load power consumption <0.3W
- Energy efficiency Level VI
- Protections:
  Short circuit / Overload / Over voltage / Over temp. (GP25)
- Comply with EISA 2007/DoE, EU ErP
- Class I power unit (with earth pin) for A type;
  Class II power unit (without earth pin) for B type
- Fully enclosed plastic case
- LED indicator for power on
- Dual output available (optional)
- 3 years warranty

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

Model No.	GP25A	GP25B	GP50A
AC input voltage range	90~264VAC ; 135~370VDC		
AC inrush current (max.)	Cold start, 60A at 230VAC		Cold start, 45A at 230VAC
Overload protection	Hiccup mode, auto recovery		
Over voltage protection	110%~140% of +5V output		
Setup, rise, hold up time	800ms, 50ms, 20ms		1000ms, 50ms, 20ms
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	UL62368-1, CSA22.2, TUV EN62368-1, EAC TP TC 004 approved		
EMC standards	EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,11, FCC part15 class B		
Length of output cable	150cm of UL2464		100cm of UL2464
Standard DC Plug (refer to page 59 for DC plug)	R1B: DIN 5P		
Dimension (LxWxH)(mm)	107.5x 67x 36		146x 75.5x 43

29W — VI GP25A/B Series

Order No.	Output	Tol.	R&N	Effi.	Max.
GP25□13A-R1B	5V, 0.5~2.5A	±5%	50mV	80.0%	28.5W
	12V, 0.2~1.2A	-5%~+10%	100mV		
	-5V, 0.1~0.3A	±3%	50mV		
GP25□13D-R1B	5V, 0.5~2.5A	±5%	60mV	80.0%	28W
	12V, 0.2~1.0A	±5%	120mV		
	-12V, 0.1~0.3A	±3%	50mV		
GP25□14E-R1B	5V, 0.5~2.5A	±5%	100mV	80.5%	29W
	15V, 0.1~0.8A	-5%~+15%	150mV		
	-15V, 0.1~0.3A	±3%	50mV		

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

50W — VI GP50A Series

Order No.	Output	Tol.	R&N	Effi.	Max.
GP50A13A-R1B	5V, 0.0~4.0A	±5%	50mV	84.0%	46.5W
	12V, 0.3~2.0A	±3%	100mV		
	-5V, 0.1~0.5A	-5%~+10%	100mV		
GP50A13D-R1B	5V, 0.0~4.0A	±5%	50mV	84.0%	50W
	12V, 0.3~2.0A	±3%	150mV		
	-12V, 0.1~0.5A	-5%~+8%	100mV		
GP50A14E-R1B	5V, 0.0~4.0A	±5%	50mV	84.5%	50W
	15V, 0.3~1.5A	±3%	150mV		
	-15V, 0.1~0.5A	-5%~+15%	150mV		

Medical Adaptor

6~36W Desktop & Wall-mounted Type

MEAN WELL

GSM06U GSM06E GSM18B/25B/36B GSM18U/25U/36U GSM18E/25E/36E

Features

- Universal AC input / Full range
- Medical safety approved(2xMOPP)
- Suitable for BF application with appropriate system consideration
- Extremely low leakage current
- No load power consumption <0.1W(<0.3W for GSM06)
- Energy efficiency Level VI (GSM06 and GSM18/25/36 5~9V for Level V)
- Comply with EISA 2007/DoE, NRCan, AU/NZ MEPS, EU ErP and meet CoC Version 5(GSM18/25/36); EISA 2007 and EU ErP(GSM06)
- Class II power(without earth pin)
- 2 pole USA / EURO plug or IEC320-C8
- Protections: Short circuit / Overload / Over voltage
- Fully enclosed plastic case
- LED indicator for power on(except for GSM06)
- Optional lock type DC plug
- Certificates: B-Type: UL / CUL / TUV / CB / FCC / CE
  U-Type: UL / CUL / CB / FCC
  E-Type: TUV / CB / CE
- 3 years warranty

(18~36W 12~48V) (18~36W)

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

Order No.		GSM06□	GSM18□	GSM25□	GSM36□
AC input voltage range		80~264VAC; 113~370VDC			
Leakage current		<50μA			
AC inrush current (max.)		Cold start, 30A at 230VAC	Cold start, 55A at 230VAC		
Overload protection	Range	>105% rated output power	105%~170% rated output power		
	Type	Hiccup mode, auto-recovery			
Over voltage protection		110%~140%	105%~135% rated output voltage, shut down o/p voltage, re-power on to recover		
Setup, rise, hold up time		1000ms, 50ms, 12ms	500ms, 30ms, 16ms		
Withstand voltage		I/P-O/P: 5656VDC	I/P-O/P: 4kVAC		
Working temperature		0~+50°C	-25~+60°C (refer to output derating curve)		
Safety standards		B-Type(except for GSM06): ANSI/AAMI ES60601-1/ES60601-1-11, CAN/CSA-C22, TUV EN60601-1 / EN60601-1-11, EAC TP TC 004 approved U-Type: ANSI/AAMI ES60601-1, ES60601-1-11, CAN/CSA-C22, EAC TP TC 004 approved E-Type: TUV EN60601-1 / EN60601-1-11, EAC TP TC 004 approved			
EMC standards		B-Type(except for GSM06): EN55011 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61204-3, EN60601-1-2 medical level, FCC Part 15 class B, EAC TP TC 020 U-Type: FCC Part 15 class B, EAC TP TC 020 E-Type: EN55011 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61204-3, EN60601-1-2 medical level, EAC TP TC 020			
Length of output cable		120cm of UL2468, 22AWG for 5~9V; 180cm of UL2468, 24AWG for 12~24V	120cm of UL1185, 16AWG for GSM18/25/36 5~9V; 180cm of UL1185, 16AWG for GSM25 12V and GSM36 12~48V; 180cm of UL1185, 18AWG for GSM18 12~48V and GSM25 15~48V		
Standard DC plug		P1J: 2.1øx 5.5øx 11mm / C+, tuning fork type (refer to page 59 for DC plug list)			
Dimension (LxWxH)(mm)		66x 32x 42.5	79x 54x 33		

Wall-mounted — 6W

Order No.	Output	Tol.	R&N	Effi.
GSM06□05-P1J	5V, 0~1.20A	±5%	50mV	68%
GSM06□06-P1J	6V, 0~1.00A	±5%	50mV	74%
GSM06□07-P1J	7.5V, 0~0.80A	±5%	80mV	74%
GSM06□09-P1J	9V, 0~0.66A	±5%	80mV	76%
GSM06□12-P1J	12V, 0~0.50A	±5%	100mV	77%

Order No.	Output	Tol.	R&N	Effi.
GSM06□15-P1J	15V, 0~0.40A	±5%	120mV	79%
GSM06□18-P1J	18V, 0~0.33A	±5%	150mV	80%
GSM06□24-P1J	24V, 0~0.25A	±4%	180mV	82%

□ = U / E ; U: American 2P, E: European 2P

Desktop / Wall-mounted — 18W

Order No.	Output	Tol.	R&N	Effi.
GSM18□05-P1J	5V, 0~3.00A	±5%	60mV	80%
GSM18□07-P1J	7.5V, 0~2.00A	±5%	80mV	83%
GSM18□09-P1J	9V, 0~2.00A	±5%	80mV	84%
GSM18□12-P1J	12V, 0~1.50A	±3%	120mV	85%
GSM18□15-P1J	15V, 0~1.20A	±3%	120mV	85.5%

Order No.	Output	Tol.	R&N	Effi.
GSM18□18-P1J	18V, 0~1.00A	±3%	150mV	86%
GSM18□24-P1J	24V, 0~0.75A	±2%	180mV	87%
GSM18□48-P1J	48V, 0~0.375A	±2%	240mV	88%

□ =B / U / E ;
B: IEC320-C8, U: American 2P, E: European 2P

Desktop / Wall-mounted — 25W

Order No.	Output	Tol.	R&N	Effi.
GSM25□05-P1J	5V, 0~4.00A	±6%	60mV	80%
GSM25□07-P1J	7.5V, 0~2.93A	±5%	80mV	83%
GSM25□09-P1J	9V, 0~2.77A	±5%	80mV	84%
GSM25□12-P1J	12V, 0~2.08A	±3%	120mV	86%
GSM25□15-P1J	15V, 0~1.66A	±3%	120mV	86%

Order No.	Output	Tol.	R&N	Effi.
GSM25□18-P1J	18V, 0~1.38A	±3%	150mV	86%
GSM25□24-P1J	24V, 0~1.04A	±2%	180mV	87%
GSM25□48-P1J	48V, 0~0.52A	±2%	240mV	88%

□ =B / U / E ;
B: IEC320-C8, U: American 2P, E: European 2P

Desktop / Wall-mounted — 36W

Order No.	Output	Tol.	R&N	Effi.
GSM36□05-P1J	5V, 0~4.50A	±6%	80mV	80%
GSM36□07-P1J	7.5V, 0~4.32A	±5%	80mV	83%
GSM36□09-P1J	9V, 0~4.00A	±5%	80mV	84%
GSM36□12-P1J	12V, 0~3.00A	±3%	120mV	86%
GSM36□15-P1J	15V, 0~2.40A	±3%	120mV	87%

Order No.	Output	Tol.	R&N	Effi.
GSM36□18-P1J	18V, 0~2.00A	±3%	150mV	87%
GSM36□24-P1J	24V, 0~1.50A	±2%	180mV	87%
GSM36□48-P1J	48V, 0~0.75A	±2%	240mV	88%

□ =B / U / E ;
B: IEC320-C8, U: American 2P, E: European 2P

Medical Adaptor 40~60W Wall-mounted & Desktop Type

MEAN WELL

GSM60U | GSM60E | GSM40A/60A | GSM40B/60B

Features

- Medical safety approved(2xMOPP)
- Suitable for BF application with appropriate system consideration(U/E/B-Type only)
- Extremely low leakage current
- No load power consumption <0.1W (A/B-Type), <0.15W (U/E-Type)
- Energy efficiency Level VI (5~9V for Level V)
- Comply with EISA 2007/DoE, NRCan, AU/NZ MEPS, EU ErP and meet CoC Version 5
- Class I(with earth Pin): A-Type
  Class II(without earth Pin): B/U/E-Type
- Protections: Short circuit / Overload / Over voltage / Over temperature (GSM60 A/B)
- LED indicator for power on (A/B-Type only)
- 3 years warranty

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

(12~48V) (B-Type only)

Order No.	GSM60U	GSM60E	GSM40A	GSM60A	GSM40B	GSM60B
AC input voltage range	80~264VAC; 113~370VDC					
Leakage current	U/E/A-Type: <100μA, B-Type: <50μA					
Withstand voltage	A-Type: I/P-O/P: 4kVAC, I/P-FG: 2kVAC, O/P-FG: Short ; B-Type: I/P-O/P: 4kVAC E/U-Type: 5656VDC					
Working temperature	-30~+70°C (refer to output derating curve)					
Safety standards	A-Type: ANSI/AAMI ES60601-1, CAN/CSA-C22, TUV EN60601-1, EAC TP TC 004 approved B/E-Type: ANSI/AAMI ES60601-1, CAN/CSA-C22, ES60601-1-11, TUV EN60601-1 / EN60601-1-11, EAC TP TC 004 approved U-Type: ANSI/AAMI ES60601-1, CAN/CSA-C22, ES60601-1-11					
EMC standards	EN55011 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61204-3, EN60601-1-2 medical level, FCC Part 15 class B					
Length of output cable	100cm: GSM60U/E 5~18V, GSM40A/B 5~12V and GSM60A/B 5~15V 150cm: GSM60U/E 24~48V, GSM40A/B 15~48V and GSm60A/B 18~48V					
Standard DC plug (refer to page 59 for DC plug list)	P1J: 2.1øx5.5øx11mm/c+, tuning fork type					
Dimension (LxWxH)(mm)	75.5x 32x 47.5 (Slim Width)		125x 50x 31.5			

Wall-mounted — 60W

Coming Soon

Order No.	Output	Tol.	R&N	Effi.
GSM60□05-P1J	5V, 0~6.00A	±5%	100mV	80%
GSM60□07-P1J	7.5V, 0~6.00A	±5%	100mV	85%
GSM60□09-P1J	9V, 0~5.50A	±5%	100mV	87%
GSM60□12-P1J	12V, 0~5.00A	±5%	100mV	88%
GSM60□15-P1J	15V, 0~4.00A	±5%	120mV	88%
GSM60□18-P1J	18V, 0~3.33A	±3%	120mV	88%
GSM60□24-P1J	24V, 0~2.50A	±3%	120mV	88%
GSM60□48-P1J	48V, 0~1.25A	±3%	150mV	90%

□=U / E ; U: American 2P, E: European 2P

Desktop — 40W

Order No.	Output	Tol.	R&N	Effi.
GSM40□05-P1J	5V, 0.1~5A	±5%	80mV	81.0%
GSM40□07-P1J	7.5V, 0.1~5.34A	±5%	80mV	85.5%
GSM40□09-P1J	9V, 0.1~4.45A	±5%	100mV	86.0%
GSM40□12-P1J	12V, 0.1~3.34A	±3%	100mV	88.0%
GSM40□15-P1J	15V, 0.1~2.67A	±3%	100mV	88.5%
GSM40□18-P1J	18V, 0.1~2.22A	±3%	120mV	89.0%
GSM40□24-P1J	24V, 0.1~1.67A	±2.5%	150mV	90.0%
GSM40□48-P1J	48V, 0.1~0.84A	±2.5%	150mV	91.0%

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

Desktop — 60W

Order No.	Output	Tol.	R&N	Effi.
GSM60□05-P1J	5V, 0.1~6A	±5%	80mV	81.5%
GSM60□07-P1J	7.5V, 0.1~6A	±5%	80mV	86.0%
GSM60□09-P1J	9V, 0.1~6A	±5%	100mV	87.5%
GSM60□12-P1J	12V, 0.1~5A	±3%	100mV	88.0%
GSM60□15-P1J	15V, 0.1~4A	±3%	100mV	88.5%
GSM60□18-P1J	18V, 0.1~3.33A	±3%	120mV	89.0%
GSM60□24-P1J	24V, 0.1~2.5A	±3%	150mV	90.0%
GSM60□48-P1J	48V, 0.1~1.25A	±2.5%	200mV	91.5%

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

Medical Adaptor

90~120W Desktop Type

MEAN WELL

GSM90A　GSM90B　GSM120A　GSM120B

Features

- Universal AC input / Full range
- Medical safety approved (2xMOPP)
- Suitable for BF application with appropriate system consideration (B-Type only)
- Extremely low leakage current
- No load power consumption <0.15W
- Energy efficiency Level VI
- Comply with EISA 2007/DoE, NRCan, AU/NZ MEPS, EU ErP and meet CoC Version 5
- Built-in active PFC function
- High efficiency up to 91.5%
- A-Type: Class I (with earth Pin);
  B-Type: Class II (without earth Pin)
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Fully enclosed plastic case
- LED indicator for power on
- Optional lock type DC plug
- 3 years warranty

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

(B-Type only)

Order No.		GSM90A	GSM90B	GSM120A	GSM120B
AC input voltage range		80~264VAC; 113~370VDC			
Leakage current		<100μA			
AC inrush current (max.)		Cold start, 60A at 230VAC		Cold start, 70A at 230VAC	
Overload protection	Range	110%~150% rated output power		105%~160% rated output power	
	Type	Hiccup mode, auto-recovery			
Over voltage protection	Range	105%~135% rated output voltage			
	Type	Shut down o/p voltage, re-power on to recover			
Setup, rise, hold up time		1000ms, 50ms, 40ms	1000ms, 50ms, 30ms	1500ms, 30ms, 40ms	
Withstand voltage		A-Type: I/P-O/P: 4kVAC, I/P-FG: 2kVAC, O/P-FG: Short B-Type: I/P-O/P: 4kVAC		A-Type: I/P-O/P: 4kVAC, I/P-FG: 2kVAC, O/P-FG:0.5kVAC, B-Type: I/P-O/P: 4kVAC	
Working temperature		-30~+70°C (refer to output derating curve)			
Safety standards		A-Type: ANSI/AAMI ES60601-1, CAN/CSA-C22, TUV EN60601-1, EAC TP TC 040 approved B-Type: ANSI/AAMI ES60601-1, CAN/CSA-C22, ES60601-1-11, TUV EN60601-1, EN60601-1-11, EAC TP TC 004 approved			
EMC standards		EN55011 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61204-3, EN60601-1-2 medical level, FCC Part 15 class B, EAC TP TC 020			
Length of output cable		100cm of UL1185, 14AWG for 12~15V; 120cm of UL1185, 16AWG for 19~48V		100cm of UL2464, 18AWGx4C for 12V; 120cm of UL2464, 18AWGx4C for 15~48V	
Standard DC plug (refer to page 59 for DC plug list)		P1M: 2.5øx5.5øx11mm/c+, tuning fork type		R7B: Power DIN 4P with lock type	
Dimension (LxWxH)(mm)		145x 60x 32		167x 67x 35	

Desktop (IEC 320-C14 / Class I) — 90W

Order No.	Output	Tol.	R&N	Effi.
GSM90A12-P1M	12V, 0~6.67A	±5%	120mV	88.0%
GSM90A15-P1M	15V, 0~6.00A	±5%	120mV	89.0%
GSM90A19-P1M	19V, 0~4.74A	±4%	120mV	89.0%
GSM90A24-P1M	24V, 0~3.75A	±3%	180mV	90.0%
GSM90A48-P1M	48V, 0~1.87A	±2.5%	200mV	91.0%

Desktop (IEC 320-C8 / Class II) — 90W

Order No.	Output	Tol.	R&N	Effi.
GSM90B12-P1M	12V, 0~6.67A	±5%	120mV	88.0%
GSM90B15-P1M	15V, 0~6.00A	±5%	120mV	89.0%
GSM90B19-P1M	19V, 0~4.74A	±4%	120mV	89.0%
GSM90B24-P1M	24V, 0~3.75A	±3%	180mV	90.0%
GSM90B48-P1M	48V, 0~1.87A	±2.5%	200mV	91.0%

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

Order No.	Output	Tol.	R&N	Effi.
GSM120A12-R7B	12V, 0~8.50A	±5%	100mV	88.0%
GSM120A15-R7B	15V, 0~7.00A	±5%	120mV	89.0%
GSM120A20-R7B	20V, 0~6.00A	±4%	180mV	89.0%
GSM120A24-R7B	24V, 0~5.00A	±3%	180mV	90.0%
GSM120A48-R7B	48V, 0~2.50A	±2.5%	200mV	91.5%

Desktop (IEC 320-C8 / Class II) — 120W

Order No.	Output	Tol.	R&N	Effi.
GSM120B12-R7B	12V, 0~8.50A	±5%	100mV	88.0%
GSM120B15-R7B	15V, 0~7.00A	±5%	120mV	89.0%
GSM120B20-R7B	20V, 0~6.00A	±4%	150mV	89.0%
GSM120B24-R7B	24V, 0~5.00A	±3%	180mV	90.0%
GSM120B48-R7B	48V, 0~2.50A	±2.5%	200mV	91.5%

Medical Adaptor

160~220W Desktop Type

GSM160A

GSM160B

GSM220A

GSM220B

Features

- Universal AC input / Full range
- Medical safety approved (2xMOPP)
- Suitable for BF application with appropriate system consideration (B-Type only)
- Extremely low leakage current
- No load power consumption < 0.15W
- Energy efficiency Level VI
- Comply with EISA 2007/DoE, NRCan, AU/NZ MEPS, EU ErP and meet CoC Version 5
- Built-in active PFC function
- High efficiency up to 94.5%
- Fanless design, high operating temperature up to +70°C
- A-Type: Class I (with earth Pin); B-Type: Class II (without earth Pin)
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Fully enclosed plastic case
- LED indicator for power on
- 3 years warranty

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

(B-Type only)

Order No.		GSM160A	GSM160B	GSM220A	GSM220B
AC input voltage range		80~264VAC; 113~370VDC			
Leakage current		<90μA		<100μA	
AC inrush current (max.)		Cold start, 110A at 230VAC			
Overload protection	Range	105%~150% rated output power		105%~135% rated output power	
	Type	Hiccup mode, auto-recovery			
Over voltage protection	Range	105%~135% rated output voltage			
	Type	Shut down o/p voltage, re-power on to recover			
Setup, rise, hold up time		2000ms, 50ms, 24ms			
Withstand voltage		A-Type: I/P-O/P: 4kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC; B-Type: I/P-O/P: 4kVAC			
Working temperature		-30~+70°C (refer to output derating curve)			
Safety standards		A-Type: ANSI/AAMI ES60601-1, CAN/CSA-C22, TUV EN60601-1, EAC TP TC 004 approved B-Type: ANSI/AAMI ES60601-1, CAN/CSA-C22, ES60601-1-11, TUV EN60601-1, EAC TP TC 004, EN60601-1-11 approved			
EMC standards		EN55011 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61204-3, EN60601-1-2 medical level, FCC Part 15 class B, EAC TP TC 020			
Length of output cable		100cm of UL2464, 16AWGx4C for 12V; 120cm of UL2464, 18AWGx4C for 15~48V		100cm of UL2464, 16AWGx4C	
Standard DC plug (refer to page 59 for DC plug list)		R7B: power DIN 4P with lock type			
Dimension (LxWxH)(mm)		175x 72x 35		210x 85x 46	

Desktop (IEC 320-C14 / Class I) — 160W

Order No.	Output	Tol.	R&N	Effi.
GSM160A12-R7B	12V, 0~11.5A	±5%	80mV	90.0%
GSM160A15-R7B	15V, 0~9.6A	±5%	100mV	91.0%
GSM160A20-R7B	20V, 0~8.0A	±4%	120mV	92.5%
GSM160A24-R7B	24V, 0~6.67A	±3%	180mV	93.0%
GSM160A48-R7B	48V, 0~3.34A	±3%	200mV	94.0%

Desktop (IEC 320-C8 / Class II) — 160W

Order No.	Output	Tol.	R&N	Effi.
GSM160B12-R7B	12V, 0~11.5A	±5%	80mV	90.0%
GSM160B15-R7B	15V, 0~9.6A	±5%	100mV	91.0%
GSM160B20-R7B	20V, 0~8.0A	±4%	120mV	92.5%
GSM160B24-R7B	24V, 0~6.67A	±3%	180mV	93.5%
GSM160B48-R7B	48V, 0~3.34A	±3%	200mV	94.0%

Desktop (IEC 320-C14 / Class I) — 220W

Order No.	Output	Tol.	R&N	Effi.
GSM220A12-R7B	12V, 0~15.0A	±5%	80mV	90.0%
GSM220A15-R7B	15V, 0~13.4A	±5%	80mV	90.0%
GSM220A20-R7B	20V, 0~11.0A	±4%	120mV	92.0%
GSM220A24-R7B	24V, 0~9.20A	±3%	120mV	93.5%
GSM220A48-R7B	48V, 0~4.60A	±2%	150mV	94.5%

Desktop (IEC 320-C8 / Class II) — 220W

Order No.	Output	Tol.	R&N	Effi.
GSM220B12-R7B	12V, 0~15.0A	±5%	80mV	90.0%
GSM220B15-R7B	15V, 0~13.4A	±5%	80mV	90.0%
GSM220B20-R7B	20V, 0~11.0A	±4%	120mV	92.0%
GSM220B24-R7B	24V, 0~9.20A	±3%	120mV	93.5%
GSM220B48-R7B	48V, 0~4.60A	±2%	180mV	94.5%

Medical Adaptor 12~60W Interchangeable Type

MEAN WELL

NEW GEM12I 73.9x 39x 48.5 mm
GEM18I/30I/40I 75.5x 39.1x 56.2 mm
Coming Soon GEM60I 75.5x 39.1x 56.2 mm

Features

- Interchangeable AC plugs (plug kit sold separately)
- Medical safety approved (2xMOPP)
- Suitable for BF application with appropriate system consideration
- No load power consumption <0.075W (<0.1W for GEM12I18V/48V and GEM30I/40I,<0.15W for GEM60I)
- Energy efficiency Level VI
- Comply with EISA 2007/DoE and EU ErP
- Class II power (without earth pin)
- Protections: Short circuit / Overload / Over voltage
- Extremely low leakage current
- Fully enclosed plastic case
- 3 years warranty

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

Order No.	GEM12I	GEM18I	GEM30I	GEM40I	GEM60I
AC input voltage range	80~264VAC; 113~370VDC				
Leakage current	<100μA				
Withstand voltage	I/P-O/P: 5656VDC, 1 minute				
Working temperature	-20~+70°C	-20~+50°C	-25~+70°C (refer to output derating curve)		-30~+70°C
Safety standards	ANSI/AAMI ES60601-1/60601-1-11, CAN/CSA-C22, TUV EN60601-1/60601-1-11 approved (GEM18I TUV&UL60601-1 only)				
EMC standards	EN55011 Class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, FCC part18 class B				
Length of output cable	5~7.5V: 100cm 9V: 120cm 12~48V: 150cm	5~12V: 100cm 15~48V: 150cm	5~12V: 100cm 15~24V: 150cm 48V: 180cm	5~15V: 100cm 18~48V: 150cm	5~18V: 100cm 24~48V: 150cm
Standard DC plug	P1J: 2.1øx5.5øx11mm/C+, turning fork type (refer to page 59 for DC plug list)				

Wall-mounted(Interchangeable Type)—12W NEW

Order No. (main body)	Output	Tol.	R&N	Effi.
GEM12I05-P1JUSB	5V, 0~2.4A	±5%	60mV	80%
GEM12I05-P1J	5V, 0~2.4A	±5%	60mV	80%
GEM12I07-P1J	7.5V, 0~1.6A	±5%	60mV	82%
GEM12I09-P1J	9V, 0~1.33A	±4%	60mV	82%
GEM12I12-P1J	12V, 0~1A	±3%	80mV	82.5%
GEM12I15-P1J	15V, 0~0.8A	±3%	80mV	84%
GEM12I18-P1J	18V, 0~0.66A	±3%	80mV	84%
GEM12I24-P1J	24V, 0~0.5A	±2%	80mV	85%
GEM12I48-P1J	48V, 0~0.25A	±2%	100mV	87%

Wall-mounted(Interchangeable Type)—18W

Order No. (main body)	Output	Tol.	R&N	Effi.
GEM18I05-P1J	5V, 0~3.00A	±5%	60mV	80%
GEM18I09-P1J	9V, 0~2.00A	±5%	60mV	84%
GEM18I12-P1J	12V, 0~1.50A	±3%	80mV	84%
GEM18I15-P1J	15V, 0~1.20A	±3%	80mV	84%
GEM18I18-P1J	18V, 0~1.00A	±2%	80mV	84%
GEM18I24-P1J	24V, 0~0.75A	±2%	80mV	85%
GEM18I48-P1J	48V, 0~0.38A	±2%	80mV	87%

Wall-mounted(Interchangeable Type)—30W

Order No. (main body)	Output	Tol.	R&N	Effi.
GEM30I05-P1J	5V, 0~4.00A	±5%	100mV	82%
GEM30I07-P1J	7.5V, 0~3.33A	±5%	100mV	86%
GEM30I09-P1J	9V, 0~3.33A	±5%	100mV	87%
GEM30I12-P1J	12V, 0~2.50A	±3%	100mV	87%
GEM30I15-P1J	15V, 0~2.00A	±3%	100mV	87%
GEM30I18-P1J	18V, 0~1.66A	±2%	100mV	88%
GEM30I24-P1J	24V, 0~1.25A	±2%	100mV	88.5%
GEM30I48-P1J	48V, 0~0.62A	±2%	100mV	90%

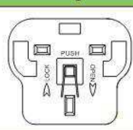
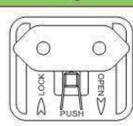
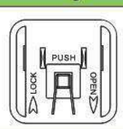
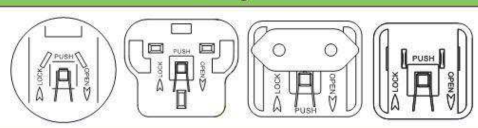
Wall-mounted(Interchangeable Type)—40W

Order No. (main body)	Output	Tol.	R&N	Effi.
GEM40I05-P1J	5V, 0~5.00A	±5%	100mV	84%
GEM40I09-P1J	9V, 0~4.00A	±5%	100mV	87%
GEM40I12-P1J	12V, 0~3.33A	±3%	100mV	88%
GEM40I15-P1J	15V, 0~2.66A	±3%	120mV	88%
GEM40I18-P1J	18V, 0~2.22A	±2%	120mV	88%
GEM40I24-P1J	24V, 0~1.67A	±2%	120mV	89%
GEM40I48-P1J	48V, 0~0.80A	±2%	200mV	90.5%

Wall-mounted(Interchangeable Type)—60W Coming Soon

Order No. (main body)	Output	Tol.	R&N	Effi.
GEM60I05-P1J	5V, 0~6.00A	±5%	100mV	80%
GEM60I07-P1J	7.5V, 0~6.00A	±5%	100mV	85%
GEM60I09-P1J	9V, 0~5.50A	±5%	100mV	87%
GEM60I12-P1J	12V, 0~5.00A	±5%	100mV	88%
GEM60I15-P1J	15V, 0~4.00A	±5%	120mV	88%
GEM60I18-P1J	18V, 0~3.33A	±3%	120mV	88%
GEM60I24-P1J	24V, 0~2.50A	±3%	120mV	88%
GEM60I48-P1J	48V, 0~1.25A	±3%	150mV	90%

Interchangeable AC Plug Specifically for GEM12/18/30/40I/60I

AC Plug Type and Order No.				
AC Plug-AU2	AC Plug-UK2	AC Plug-EU2	AC Plug-US2	AC Plug-MIX2
				
Australian Type	U.K. Type	European Type	U.S. Type	Mixed Four Type

▶ The main body unit and AC plug should be ordered seperately. The main body needs to be used along with any one of the AC plug.

Moistureproof Adaptor 60~120W Single Output

MEAN WELL

OWA-60E/U OWA-90E/U OWA-120E/U

	E-Type		U-Type	
AC Input Plug				
DC Output Plug	OWA-60E	OWA-90E/120E	OWA-60U	OWA-90U/120U
				

Features

- IP67 design for power body
- Universal AC input / Full range (except for OWA-120E)
  AC input 180~264VAC only (OWA-120E)
- No load power consumption <0.15W
- Energy efficiency Level VI
- E-Type: meet CoC Version 5 (OWA-60E/90E);
  comply with EU ErP
  U-Type: Comply with EISA 2007/DoE and NRCan
- Built-in active PFC function (OWA-90/120)
- Class II power (without earth pin)
- Fanless design, cooling by free air convection
- Fully enclosed plastic case
- Protections: Short circuit / Over current /
  Over voltage / Over temperature
- Suitable for household appliances or the electronic applications at highly dusty or damp environment
- 5 years warranty

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

Model No.		OWA-60 □	OWA-90 □	OWA-120 □
AC input voltage range		90~264VAC; 127~370VDC (180~264VAC ; 254~370VDC for OWA-120E)		
AC inrush current (max.)		Cold start, 65A at 230VAC	Cold start, 60A at 230VAC	
Overload protection		E-Type: 105~115% hiccup mode, auto-recovery; U-Type: 95~108% constant current limiting, auto-recovery		
Over voltage protection		110%~140% rated output voltage, re-power on to recover		
Over temperature protection		Shut down output voltage, re-power on to recover		
Withstand voltage		I/P-O/P: 3.75KVAC		
Working temperature		-35~+70°C	-40~+70°C (refer to output derating curve)	
Safety standards		E-Type: DEKRA EN60335-1(except for 48~54V), EN61558-1, EN61558-2-16 approved; U-Type: UL8750 listed approved, EAC TP TC 004	E-Type: DEKRA EN60335-1(except for 42~54V), EN61558-1, EN61558-2-16 approved; U-Type: UL8750 listed approved, EAC TP TC 004	E-Type: DEKRA EN60335-1(except for 48~54V), EN61558-1, EN61558-2-16 approved; U-Type: UL8750 listed approved, EAC TP TC 004
EMC standards		E-Type: EN55032 class B, EN55014, EN61000-3-2,-3; U-Type: FCC Part 15, EAC TP TC 020		
Standard plug	Input	E-Type: CEE 7/7 EU plug; U-Type: NEMA 1-15P plug		
	Output	2.1øx5.5øx11mm / C+, tuning fork type	E-Type: XLR 4P, male type; U-Type: P1M, 2.5øx5.5øx11mm / C+, tuning fork type (OWA-90U 20~54V only) or R7B, Power DIN 4P with lock type	
Length of cable	Input	E-Type: 150cm of H05RN-F 1.0mm² x2C; U-Type: 150cm of SVT 18AWGx2C		
	Output	E-Type: 30cm of H05RN-F 1.0mm²x2C U-Type: 30cm of UL1185 16AWG x2C	E-Type: 30cm of H05RN-F 1.0mm² x2C U-Type: 30cm of UL2464 18AWG x4C for R7B; 30cm of UL2464 16AWGx2C for P1M	E-Type: 30cm of H07RN-F 1.5mm² x2C U-Type: 30cm of UL2464 18AWG x4C
Dimension (LxWxH)(mm)		130x 53x 35	171x 63x 37.5	191x 63x 37.5

OWA-60 Series

(E-Type) (U-Type, 42~54V) (U-Type, 12~36V) (E-Type) (E-Type) (U-Type)

Model No.	Output	Tol.	R&N	Effi.
OWA-60 □ -12	12V, 0~5A	±4.0%	150mV	88%
OWA-60 □ -15	15V, 0~4A	±4.0%	150mV	89%
OWA-60 □ -20	20V, 0~3A	±4.0%	150mV	89%
OWA-60 □ -24	24V, 0~2.5A	±3.0%	150mV	90%
OWA-60 □ -30	30V, 0~2A	±3.0%	200mV	90%
OWA-60 □ -36	36V, 0~1.67A	±2.0%	200mV	90%
OWA-60 □ -42	42V, 0~1.5A	±1.0%	250mV	90%
OWA-60 □ -48	48V, 0~1.25A	±1.0%	250mV	91%
OWA-60 □ -54	54V, 0~1.12A	±1.0%	350mV	91%

□ = E / U ; E: European 2P, U: American 2P

OWA-90 Series

(E-Type) (U-Type, 42~54V) (U-Type, 12~36V) (E-Type) (U-Type)

Model No.	Output	Tol.	R&N	Effi.
OWA-90 □ -12	12V, 0~7.5A	±4.0%	150mV	89%
OWA-90 □ -15	15V, 0~6A	±4.0%	150mV	90%
OWA-90 □ -20-▲	20V, 0~4.5A	±4.0%	150mV	90%
OWA-90 □ -24-▲	24V, 0~3.75A	±3.0%	150mV	90%
OWA-90 □ -30-▲	30V, 0~3A	±3.0%	200mV	90%
OWA-90 □ -36-▲	36V, 0~2.5A	±2.0%	200mV	91%
OWA-90 □ -42-▲	42V, 0~2.15A	±1.0%	250mV	91%
OWA-90 □ -48-▲	48V, 0~1.88A	±1.0%	250mV	91%
OWA-90 □ -54-▲	54V, 0~1.67A	±1.0%	350mV	91%

□ = E / U ; E: European 2P, U: American 2P ; ▲=Blank(R7B)/P1M

OWA-120 Series

(E-Type) (U-Type) (E-Type) (E-Type) (U-Type)

Model No.	Output	Tol.	R&N	Effi.
OWA-120E-12	12V, 0~9.6A	±4.0%	150mV	87.5%
OWA-120U-12	12V, 0~10A	±4.0%	150mV	87.5%
OWA-120 □ -15	15V, 0~8A	±4.0%	150mV	89.0%
OWA-120 □ -20	20V, 0~6A	±4.0%	150mV	90.0%
OWA-120 □ -24	24V, 0~5A	±4.0%	150mV	90.5%
OWA-120 □ -30	30V, 0~4A	±3.0%	200mV	90.0%
OWA-120 □ -36	36V, 0~3.4A	±2.0%	200mV	90.0%
OWA-120 □ -42	42V, 0~2.9A	±1.0%	250mV	90.5%
OWA-120 □ -48	48V, 0~2.5A	±1.0%	250mV	90.5%
OWA-120 □ -54	54V, 0~2.3A	±1.0%	350mV	90.5%

□ = E / U ; E: European 2P, U: American 2P

Green Charger 30~326W Portable Battery Charger

MEAN WELL

30W Green 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

GC30B	GC30U	GC30E
108x 67x 36 mm	108x 67x 36 mm	108x 67x 36 mm

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
Withstand voltage .... I/P-O/P: 3kVAC, 1minute
Working temperature .... 0~+50°C (refer to output derating curve)
Safety standards .. UL62368-1, CSA 22.2, TUV EN62368-1, EAC TP TC 004 approved
EMC standards .... EN55014-1, EN61000-3-2,3, EN61000-4-2,3,4,5,6,11, EAC TP TC 020
Length of output cable .... 120cm of UL1185, 16AWG for 4.2~8.4V; 180cm of UL1185, 18AWG for 14.3~28.6V
Standard DC plug .... P1J: 2.1øx5.5øx11mm / C+, tuning fork type

Order 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: American 2P, E: European 2P

120W Green Adaptor with Charging Function

(GC120Axx-AD1)

167x 67x 35 mm

- Universal AC input / Full range
- Built-in active PFC function
- No load power consumption <0.5W
- High efficiency up to 91%
- 2 stage charging characteristic
- 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 .... 85~264VAC; 120~370VDC
Overload protection .... 90~110% constant current, auto-recovery
Over voltage protection .... 105%~135% shut down O/P 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 (GC120Axx-AD1 only), EN62368-1, J62368-1 approved, EAC TPTC004
EMC standards .... EN55032 class B, FCC part 15 class B, EAC TPTC020 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.
GC120A12-□	13.6V, 7.5A	86.5%
GC120A24-□	27.2V, 4.42A	90.0%
GC120A48-□	54.4V, 2.21A	91.0%

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

160W Green Adaptor with Charging Function

(GC160Axx-AD1)

175x 72x 35 mm

- Universal AC input / Full range
- Built-in active PFC function
- No load power consumption <1W
- High efficiency up to 94%
- 2 stage charging characteristic
- 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 .... 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), EN62368-1, EAC TPTC004 approved
EMC standards .... EN55032 class B, FCC part 15 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EAC TPTC020
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 & 326W Green Adaptor with Charging Function

(GC330) (GC220Axx-AD1)

	GC220	GC330
Case (mm)	210x85x46	220x95x46
Connector		

- Universal AC input / Full range; 90~264VAC; 127~370VDC
- Built-in active PFC function
- No load power consumption <1W
- 2 stage charging characteristic
- Cooling by free air convection
- 3 pole AC inlet IEC320-C14
- Class I power (with earth pin)
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Fully enclosed plastic case
- 2 color LED indicator for charging status
- 2 years warranty

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~+60°C (refer to output derating curve)
Safety standards .... GC220: TUV EN62368-1, UL1012 (GC220Axx-AD1 only), EAC TPTC004 approved
GC330: TUV EN62368-1, UL62368-1, EAC TPTC004 approved
EMC standards .... EN55032 class B, FCC part 15 class B, EAC TPTC020, 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 ... GC220: Power DIN 4P with lock type (R7B)
GC330: 4P/6.35mm pitch, AMP 1-480702-0 (power supply side); AMP 1-480703-0 (customer side)

GC220 Series

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

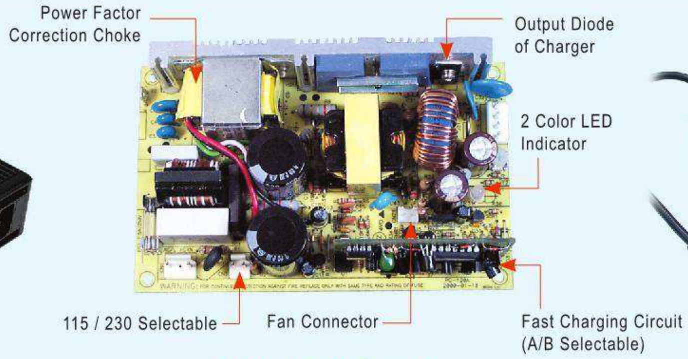
□ = R7B/ AD1 ; R7B= 4 pin power din, AD1= Anderson connector

GC330 Series

Model No.	Output	Effi.
GC330A36-C4P	40.8V, 8A	93.5%
GC330A48-C4P	54.4V, 6A	93.5%

120~230W Portable Battery Charger

MEAN WELL

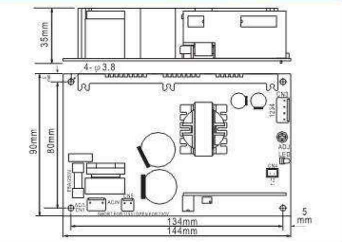


PA/PB-120 | PA/PB-120 (PCB type) | PB-230

Features for PA/PB-120

- Stationary charger for lead-acid batteries
- AC input range selectable by switch
- Charging type selectable (optional)
- Passive PFC option
- Protections:
  Short circuit / Overload / Over voltage / Over temp.
- Built-in ON/OFF power switch
- 3 poles AC inlet with fuse holder
- 2 color LED loading indicator
- Open frame models available (without safety approvals)
- 2 years warranty

PA/PB-120 (PCB type)



Features for PB-230

- Stationary charger for lead-acid batteries and Li-ion batteries
- Universal AC input/Full range
- 3 stage charging
- Built-in active PFC function
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Built-in remote ON/OFF control
- Fan ON/OFF control
- 2 color LED loading indicator
- 2 years warranty

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

Model No.	PA/B-120	PB-230
AC input voltage range	88~132VAC/ 176~264VAC selectable by switch	90~264VAC; 127~370VDC
AC inrush current (max.)	Cold start, 50A at 230VAC	
Overload protection	90%~110% constant current limiting ,auto-recovery	
Over voltage protection	108%~127% hiccup mode, auto-recovery	102%~125% shut down o/p voltage, auto-recovery
Setup, rise, hold up time	1000ms, 50ms, 16ms at full load and 230VAC	NA
Withstand voltage	I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC	
Working temperature	-10~+45°C (refer to output derating curve)	-20~+50°C (refer to output derating curve)
Safety standards	UL62368-1, TUV EN62368-1, EN60335-1, EAC TP TC 004, EN60335-2-29(except for 55.2V) approved	UL1012, EAC TP TC 004 (PB-230xx-AD1 only), TUV EN60950-1, PSE J60950-1 approved
EMC standards	EN55032 class B, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3, EAC TP TC 020	EN55032 class B, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3, EAC TPTC020
Dimension (LxWxH)(mm)	Case Type: 180x 96x 49; PCB Type: 144x 90x 33	190x 96x 49

Order Information for PA/PB-120

PA-120P-xx□

A: Voltage detector
B: Current detector

P: With PFC
N: None PFC

P: Open PCB
C: With case

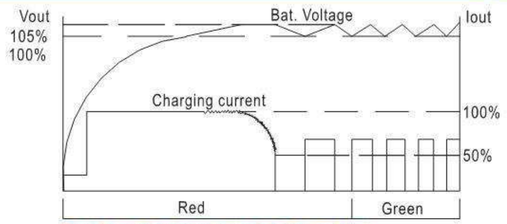
13: 13.8V
27: 27.6V
54: 55.2V

Order Information for PB-230

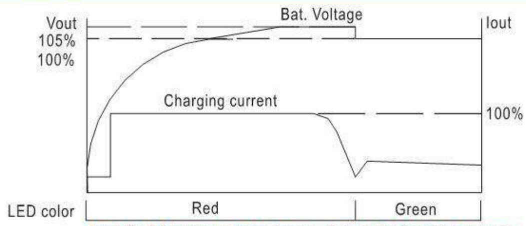
PB-230-xx□

Blank: XLR 4P (standard)
AD1: Anderson connector (optional)

Charging Curve for PA/PB-120



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



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

PA/B-120 Series

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%

PB-230 Series

(PB-230-xxAD1)

Model No.	Output	Effi.
PB-230-12□	14.4V, 0~16A	81.5%
PB-230-24□	28.8V, 0~8A	85.5%
PB-230-48□	57.6V, 0~4A	86.0%

□= Blank, AD1; Blank= XLR 4P, male type, AD1= Anderson connector

Charger

108~360W Power Supply and Desktop Charger

MEAN WELL

ESP/ESC-120

ESP/ESC-240

NEW

ENP/ENC-120 / 180 / 240 / 360

Features for ESC/ESP Series

- AC input range selectable by switch
- Fanless design, cooling by free air convection (ESP/ESC-120)
  Forced air cooling by built-in DC fan (ESP/ESC-240)
- Protections: Short circuit / Overload /
  Over voltage / Over temperature
- 3 color LED loading indicator
- 2 years warranty

Features for ENC/ENP Series

- Universal AC input / Full range
- Energy efficiency Level VI (ENP only)
- Comply with EISA 2007/DoE, NRCan, EU ErP and CoC Version 5 for ENP (EISA 2007/DoE, NRCan, EU ErP for ENP-360)
- Built-in 3 stage charging curve, curve programmable option available (ENC only)
- Fanless design, cooling by free air convection
- Protections: Short circuit / Overload (ENP only) /
  Over voltage / Over temperature
- 3 years warranty

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

Order No.	ESP/ESC-120	ESP/ESC-240	ENP/ENC-120	ENP/ENC-180	ENP/ENC-240	ENP/ENC-360
AC input voltage range	88~132VAC / 176~264VAC selectable by switch		90~264VAC; 127 ~ 370VDC			
AC inrush current (max.)	Cold start, 40A at 230VAC		Cold start, 65A at 230VAC	Cold start, 70A at 230VAC	Cold start, 75A at 230VAC	Cold start, 60A at 230VAC
DC adjustment range	13.5V: 12~15V, 27V: 24~30V, 54V: 48~56V		12V: 11.5~15V, 24V: 23.5~30V, 48V: 47.5~58.8V / NA for ENC			
Overload protection	105%~135% fold back current limiting, auto-recovery		110~125% constant current limiting, auto-recovery / NA for ENC			
Over voltage protection	115%~135% constant voltage limiting, auto-recovery		110~130% shut down and latch off o/p voltage, re-power on to recover			
Over temp. protection	Shut down o/p voltage, auto-recovery after temperature goes down					
Withstand voltage	I/P-O/P: 3kVAC, I/P-FG:1.5kVAC, O/P-FG: 0.5kVAC		I/P-O/P:3KVAC, I/P-FG:2KVAC, O/P-FG:0.5KVAC			
Working temperature	-10~+60°C (refer to output derating curve)		-30~+70°C (refer to output derating curve)			
Safety standards	CSA 62368-1, EAC TP TC 004 approved		UL62368-1, EAC TP TC 004; BSMI CNS14336-1(ENC series only) approved			
EMC standards	EN55032 class B, EN61000-3-2,-3, EN61000-4-2,3,4		EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11			
Dimension (LxWxH)(mm)	150x 140x 75		192x 178x 45.5			

ESP/ESC-120 Series

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

□=P/C; P: Power supply, C: Charger

ENP-240 Series

NEW

Model No.	Output	Tol.	R&N	Effi.
ENP-240-12	13.8V, 0~17.4A	±1%	150mV	91%
ENP-240-24	27.6V, 0~8.7A	±1%	150mV	93.5%
ENP-240-48	55.2V, 0~4.4A	±1%	350mV	94%

ESP/ESC-240 Series

Model No.	Output	Tol.	R&N	Effi.
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%

□=P/C; P: Power supply, C: Charger

ENP-360 Series

NEW

Model No.	Output	Tol.	R&N	Effi.
ENP-360-12	13.8V, 0~26A	±1%	150mV	91%
ENP-360-24	27.6V, 0~13A	±1%	150mV	93%
ENP-360-48	55.2V, 0~6.5A	±1%	350mV	94%

ENP-120 Series

NEW

Model No.	Output	Tol.	R&N	Effi.
ENP-120-12	13.8V, 0~8.7A	±1%	150mV	89.5%
ENP-120-24	27.6V, 0~4.3A	±1%	150mV	91%
ENP-120-48	55.2V, 0~2.2A	±1%	350mV	91.5%

ENC-120/180 Series

NEW

Model No.	Output	Effi.
ENC-120-12	14.4V, 0~8A	89%
ENC-120-24	28.8V, 0~4A	90%
ENC-120-48	57.6V, 0~2A	90.5%

Model No.	Output	Effi.
ENC-180-12	14.4V, 0~12A	91%
ENC-180-24	28.8V, 0~6A	92%
ENC-180-48	57.6V, 0~3A	93%

ENP-180 Series

NEW

Model No.	Output	Tol.	R&N	Effi.
ENP-180-12	13.8V, 0~13A	±1%	150mV	91%
ENP-180-24	27.6V, 0~6.5A	±1%	150mV	93.5%
ENP-180-48	55.2V, 0~3.3A	±1%	350mV	94%

ENC-240/360 Series

NEW

Model No.	Output	Effi.
ENC-240-12	14.4V, 0~16A	91%
ENC-240-24	28.8V, 0~8A	92%
ENC-240-48	57.6V, 0~4A	93%

Model No.	Output	Effi.
ENC-360-12	14.4V, 0~24A	91%
ENC-360-24	28.8V, 0~12A	93%
ENC-360-48	57.6V, 0~6A	94%

Charger

Smart Battery Charging Programmer

SBP-001

Features

- For MEAN WELL's intelligent battery chargers with charging curve programmable function (ENC/RPB/RCB series)
- Simple connection and configuration
- No need of battery or AC power
- LED status indicator

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

Model No.	SBP-001
Programming interface	PMBus, CANBus, UART
LED indicator	Green: 3.3V interface Orange: 5V interface
Programming volt.	5V and 3.3V, for programming purpose only. Total 0.5W(max.)
Comm. interface	USB
Working temperature	0~ +40°C
Dimension (LxWxH)(mm)	165x 46x 23

Description

The Smart Battery Charging Programmer Software is utilized for programming MEAN WELL's intelligent chargers, including ENC, RPB and RCB series. The connection between personal computer (PC) and charger is established via the "programmer" hardware interface from MEAN WELL.
What function is provided?
Charging parameter adjustment: Values of constant current (CC), constant voltage (CV), float voltage (FV) and tapper current (TC) can be set and adjusted.
Battery temperature compensation: Various charging voltage compensation is provided for battery at different temperature conditions.
Timeout setting: Fully programmable timeout during stages enables to be set to shutdown the charger to prevent battery over-charge.

Hardware Connection

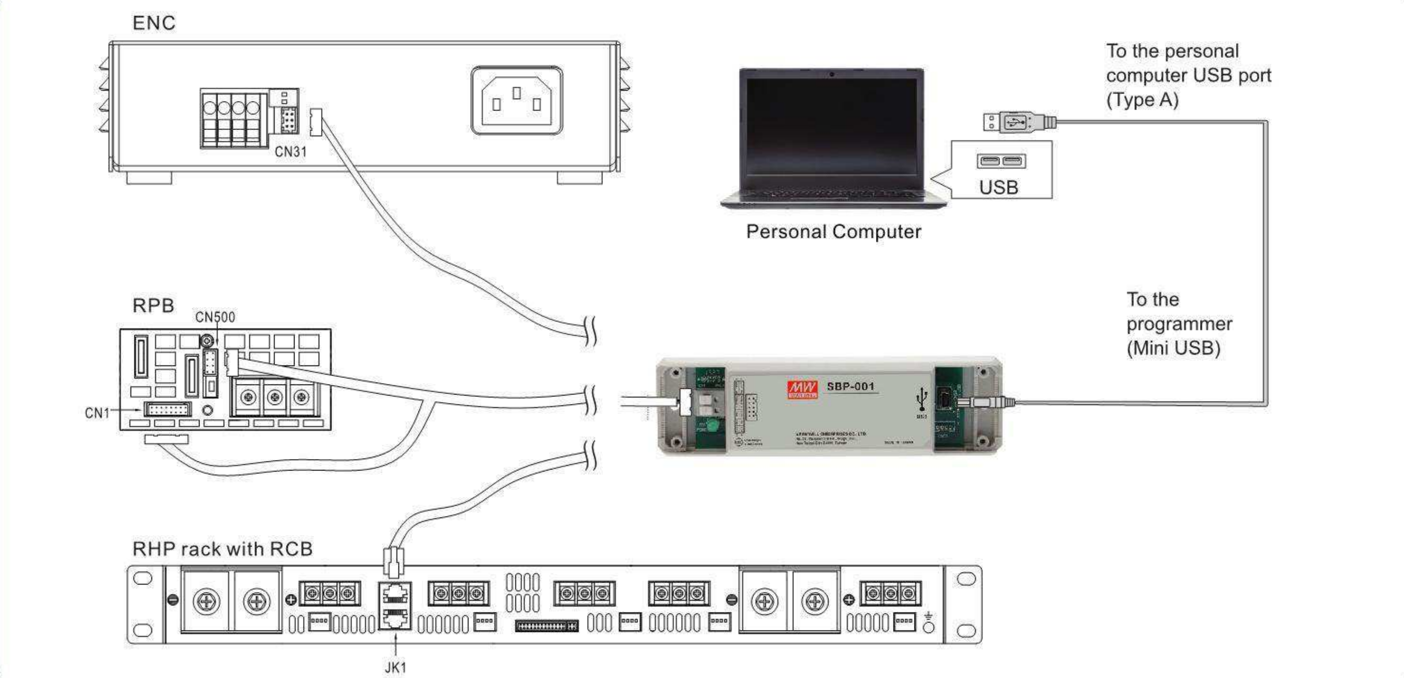
Prior to program a driver, the connection between driver and PC must be established first via the Programmer shown in the figure below. The following steps are suggested:

ENC series with SBP-001:

1. Remove the ENC from AC.
2. Connect Programmer and PC with the enclosed USB cable. LED (GREEN) of the Programmer is ON.
3. Connect the communication cable to CN31 of the ENC from the Programmer.

RPB/RCB series with SBP-001:

1. Remove the RPB/RCB from AC.
2. Connect Programmer and PC with the enclosed USB cable. LED (GREEN) of the Programmer is ON.
3. Connect the communication cable to CN1 and CN500 of the RPB from the Programmer; RCB requires working with a RHP rack, link the cable to JK1 of the rack.
4. Apply AC to the charger.
5. LED of the Programmer will light in ORANGE once connection is established successfully.



Charger

300~1000W Battery Charger

MEAN WELL

PB-300

PB-360

PB-600

PB-1000

Features for PB-300/360

- 3 stage charger for lead-acid batteries and Li-ion batteries
- 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
- 2 color LED loading indicator
- Fan ON/OFF control (PB-360 only)
- Cooling by free air convection for PB-300,
  Cooling by built-in DC fan for PB-360
- 3 years warranty

Features for PB-600/1000

- 2/3/8 stage smart charger for lead-acid batteries and Li-ion batteries, microprocessor controlled power management
- CANBus potocol (optional for PB-1000)
- Built-in active PFC function
- Built-in battery rescue function
- Protections: Reverse polarity / Short circuit / Over voltage / Over temp.
- Built-in temperature compensation function
- 2-bank charger (PB-1000)
- 3 color LED loading indicator
- Built-in remote ON-OFF control
- Fan ON/OFF control (PB-600)
- 3 years warranty

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

Order No.	PB-300	PB-360	PB-600	PB-1000
AC input voltage range	90~132VAC / 180~264VAC selectable by switch		90~264VAC; 127~370VDC	
AC inrush current (max.)	Cold start, 60A at 230VAC		Cold start, 50A at 230VAC	
Over voltage protection	108%~125% rated output voltage		110%~125% rated output voltage	
Withstand voltage	I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC (I/P-FG: 1.5kVAC for PB-360)			
Working temperature	-10~+50°C	-20~+60°C (refer to output derating curve)		
Safety standards	IEC60335-2-29 CB approval by TUV (except for 48V), UL62368-1 approved, EAC TP TC 004		TUV EN60335-1, EN60335-2-29 (except for 48V), EN62368-1 (48V only), UL1012 approved, EAC TP TC 004	UL62368-1, TUV EN62368-1 approved, EAC TP TC 004
EMC standards	EN55032 class B, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3 (except for PB-300/360 non-PFC type), EAC TP TC 020			
Case No.	801B	801A	805C	804B
Dimension (LxWxH)(mm)	253x 135x 48.5		230x 158x 67	300x 184x 70

PB-300 Series

(except for 48V) (P type only)

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

PB-360 Series

(except for 48V) (P type only)

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

PB-600 Series

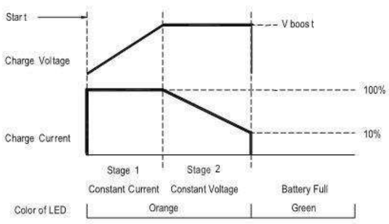
Model No.	Output	Effi.
PB-600-12	14.4V, 0~40.0A	86%
PB-600-24	28.8V, 0~21.0A	87%
PB-600-48	57.6V, 0~10.5A	89%

PB-1000 Series

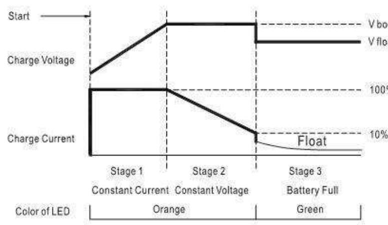
Model No.	Output	Effi.
PB-1000-12	14.4V, 60.0A	85%
PB-1000-24	28.8V, 34.7A	88%
PB-1000-48	57.6V, 17.4A	89%

Built-in Charging Curves for PB-600 and PB-1000

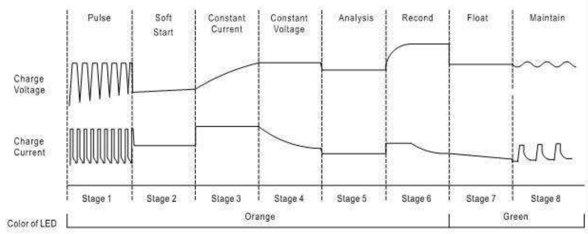
2-Stage Charging Curve



3-Stage Charging Curve



8-Stage Charging Curve



Charger

600~1000W Harsh Environment & Intelligent Battery Charger

MEAN WELL

HEP-600C

Coming Soon

HEP-1000C

Features

- 3(HEP-600C) or 2/3(HEP-1000C) stage charger for lead-acid batteries and Li-ion batteries in harsh environment
- Universal AC input 90~305VAC
- Built-in active PFC function
- Built-in CANBus protocol(HEP-1000C)
- No load power consumption < 0.5W at remote OFF
- Output voltage and current programmable(HEP-1000C)
- High efficiency up to 95.5%
- Fanless design, cooling by free air convection
- -40~+70°C wide operating range
- Aluminum case and filling with heat-conducted silicone
- Withstand 10G vibration test
- Operating altitude up to 5000 meters
- Vo and Io can be adjusted through internal potentiometer
- Protections: Short circuit / Over voltage / Over temperature
- Built-in remote ON/OFF control(HEP-1000C)
- Temperature compensation function
- DC OK active signal(HEP-1000C)
- 3 color LED loading indicator
- 6 years warranty

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

Order No.	HEP-600C	HEP-1000C
AC input voltage range	90~305VAC; 127~431VDC	
AC inrush current (max.)	Cold start, 70A at 230VAC	
DC adjustment range	Vo: 95%~125% rated output voltage	
Over voltage protection	112%~142% shut down o/p voltage, re-power on to recover	
Working temperature	-40~+70°C (refer to output derating curve)	
Withstand voltage	I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 1.5kVAC	
Safety standards	UL62368-1, TUV EN62368-1, EAC TP TC 004; EN61558-1, EN60335-1/-2-29(HEP-1000C) approved	
EMC standards	EN55032 conduction class B, radiation class A; EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EAC TP TC 020	EN55032 conduction class B, radiation class B; EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EAC TP TC 020
Connection	3+7P / 11mm pitch terminal block with cover	
Dimension(LxWxH)(mm)	280x 144x 48.5	310x 144x 48.5

600W HEP-600C

Model No.	Output	Effi.
HEP-600C-12	14.4V, 0~35.0A	93.5%
HEP-600C-24	28.8V, 0~21.0A	94.5%
HEP-600C-48	57.6V, 0~10.5A	95.5%

1000W Coming Soon HEP-1000C

Model No.	Output	Effi.
HEP-1000C-24	28.8V, 0~34.7A	93.5%
HEP-1000C-36	43.2V, 0~27.8A	94.5%
HEP-1000C-48	57.6V, 0~17.4A	95.5%
HEP-1000C-100	120V, 0~8.3A	95.5%

Products —
· One Stop Shopping · Total Solution

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

1600W Harsh Environment & Intelligent Battery Charger

Features

- Intelligent charger with programmable 3 stage curve for lead-acid batteries and Li-ion batteries
- Universal AC input / Full range
- Withstand 300VAC surge input for 5 seconds
- Built-in active PFC function
- Built-in I²C interface, PMBus protocol (optional CANBus)
- 1U low profile (41mm height)
- Rack mountable (RCB-1600), support hot swap (hot plug)
- Output voltage and current programmable
- Forced air cooling by built-in DC fan
- Built-in OR-ing FET
- Active current sharing up to 4800W (2+1) for RPB-1600, 8000W with one 19" rack shelf (RHP-1U□-A)for RCB-1600
- Protections: Battery under voltage / Battery no connection / Short circuit / Over voltage / Over temperature
- 3 color LED loading indicator
- Optional conformal coating
- 5 years warranty

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

Order No.	RPB-1600	RCB-1600
AC input voltage range	90 ~ 264VAC; 127 ~ 370VDC	
AC inrush current (max.)	Cold start, 35A at 230VAC	
DC adjustment range	Vo: -1%~+22.5% by potentiometer, or to 75%~125% of nominal output voltage by 1~5VDC external control signal Io: to 20%~100% of rated output current by 1-5VDC external control signal	
Over voltage protection	130%~155% shut down o/p voltage, re-power on to recover	
Working temperature	-30~+70°C (refer to output derating curve)	
Withstand voltage	I/P-O/P:3KVAC, I/P-FG:2KVAC, O/P-FG:1.5KVAC	
Safety standards	UL60950-1, TUV EN60950-1 approved, EAC TP TC 004	
EMC standards	EN55032 conduction class B, radiation class A; EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11; EN61000-6-2 heavy industry level criteria A, EAC TP TC 020	
Connection	bus bars	Positronic PCIM34W13M400A1
Dimension(LxWxH)(mm)	300x 85x 41	

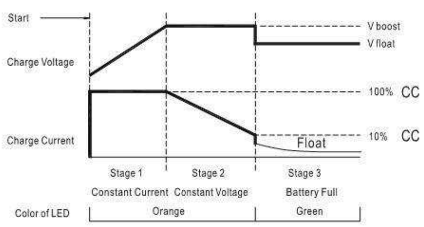
1600W RPB-1600

Model No.	Output	Effi.
RPB-1600-12	14.4V, 0~100A	91.0%
RPB-1600-24	28.8V, 0~55A	92.5%
RPB-1600-48	57.6V, 0~27.5A	93.5%

1600W RCB-1600

Model No.	Output	Effi.
RCB-1600-12	14.4V, 0~100A	90.5%
RCB-1600-24	28.8V, 0~55A	92.0%
RCB-1600-48	57.6V, 0~27.5A	93.0%

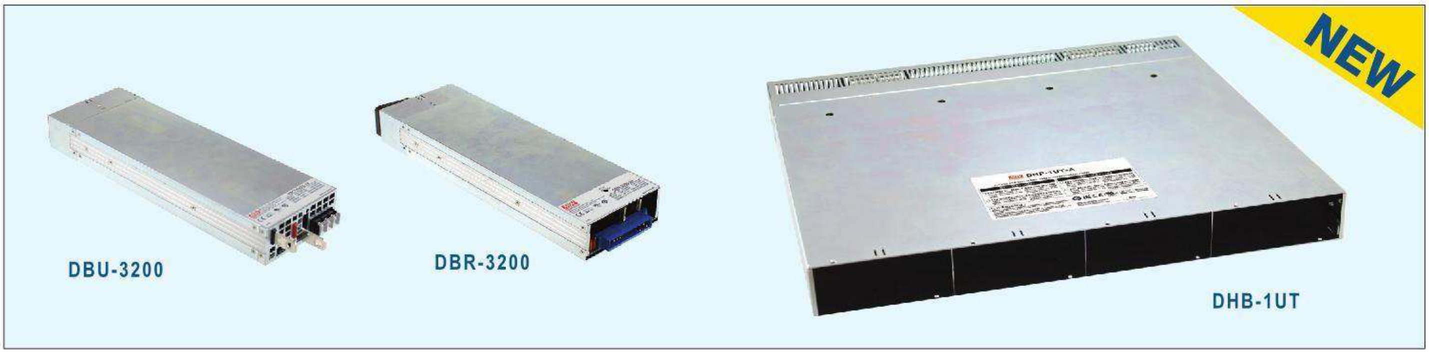
3-Stage Charging Curve



Model	Description	Vboost	Vfloat	CC (default)
12V	Default programmable	14.4	13.8	100A
	Pre-defined, gel battery	14	13.6	
	Pre-defined, flooded battery	14.2	13.4	
	Pre-defined, AGM battery	14.5	13.5	
24V	Default programmable	28.8	27.6	55A
	Pre-defined, gel battery	28	27.2	
	Pre-defined, flooded battery	28.4	26.8	
	Pre-defined, AGM battery	29	27	
48V	Default programmable	57.6	55.2	27.5A
	Pre-defined, gel battery	56	54.4	
	Pre-defined, flooded battery	56.8	53.6	
	Pre-defined, AGM battery	58	54	

3200W Programmable and Intelligent Charger

MEAN WELL



Features

- Universal AC Input / Full Range
- Charger for lead-acid (Gel, flooded and AGM) and Li-ion (Li-ion & Lithium Manganese) batteries
- Built-in default 3 stage charging curves and programmable curve
- Built-in active PFC function
- High efficiency up to 94.5% (48VDC)
- High power density 37W/in^3
- Cooling by built-in DC fan
- PV (Programmable Voltage)and PC (Programmable Constant Current) functions
- Built-in OR-ing MOSFET, support hot swap/plug (DBR-3200 only)
- Active current sharing, one 19" 1U rack up to 12800W, two racks up to 25600W in parallel
- I^{2}C interface, support PMBus protocol (CANBus optional)
- Protections: Battery under voltage / Battery no connection / Short circuit / Over temperature
- Optional conformal coating
- 5 years warranty

Order Information

DBU-3200-24 ☐

- ☐: Communication protocol option
  - Blank: Standard model, PMBus protocol
  - CAN: Optional model, CANBus protocol
- 24: Nominal voltage (24V/48V)
- 3200: Output wattage
- DBU: Series name (DBU: Charger; DBR: Rack charger)

DHB-1U T - A

- A: Rack shelf for 3200W unit
- T: Terminal block
- 1U: Profile of the system
- DHB: Series name (DHB: Rack charger system)

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

Order No.	DBU-3200	DBR-3200
AC input voltage range	90-264VAC; 127~370VDC	
AC inrush current (max.)	17A/230VAC, COLD START	
DC adjustment range	24V: 23.5-30V; 48V: 47.5-58.8V	
Over voltage protection	24V: 31.5-37.5V; 48V: 63-75V	
Working temperature	-30~+70°C (refer to output derating curve)	
Withstand voltage	I/P-O/P: 3KVAC; I/P-FG: 2KVAC; O/P-FG: 1.5KVAC (0.5KVAC for 24V)	
Safety standards	UL62368-1, TUV EN62368-1, EAC TP TC 004 approved	
EMC standards	Compliance with EN55032 (CISPR32) Conduction Class B, Radiation Class A; EN61000-3-2,3, EAC TP TC 020 EN61000-4-2,3,4,5,6,8,11, EN61000-6-2(EN55082-2), light industry level, criteria A	
Connection	Bus Bar	Positronic PCIM34W13F400A1
Communication Protocol	PMBus; CANBus (optional)	
Dimension(LxWxH)(mm)	325x 107x 41	

3200W DBU-3200

Model No.	Output	Efficiency
DBU-3200-24	24V, 0~110A	93.5%
DBU-3200-48	48V, 0~55A	94.5%

3200W DBR-3200

Model No.	Output	Efficiency
DBR-3200-24	24V, 0~110A	93.5%
DBR-3200-48	48V, 0~55A	94.5%


RCP-1000

RCP-1U

Features

- Universal AC input / Full range
- Built-in active PFC function
- Built-in auxiliary power
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Forced air cooling by built-in DC fan
- 1U low profile (41mm height)
- Active current sharing up to 3 units, 3 racks max. can be operated in parallel (up to 8 units)
- Built-in remote ON/OFF control
- Built-in remote sense function
- AC OK and DC OK signal output
- Internal OR-ing diode, hot-swap operation
- Optional I²C serial data bus; Built-in PMBus serial communication
- 5 years warranty

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

Order No.	RCP-1000
AC input voltage range	90~264VAC, 127~370VDC
AC inrush current (max.)	Cold start, 50A at 230VAC
DC adjustment range	Vo: ±3% by potentiometer, or to 90%~110% of rated output voltage by external resistor
Overload protection (OLP)	105%~125% constant current limiting, auto-recovery
Over voltage protection	110%~135% shut down o/p voltage, re-power on to recover
Withstand voltage	I/P-O/P:3kVAC, I/P-FG:2kVAC, O/P-F/G: 0.7kVDC
Working temperature	-20~+60°C (refer to output derating curve)
Safety standards	UL62368-1, TUV EN62368-1, EAC TP TC 004 approved
EMC standards	EN55032 class B (Radiation class A for RCP-1600), EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61000-6-2 heavy industry level
Connection	Positronic PCIB24W9M400A1
Dimension(LxWxH)	295x 127x 41mm (483.6x 350.8x 44mm for RCP-1U)
Case No.	952A (959A for RCP-1U)
Packing	1.93kg (RCP-1000, single unit); 4.4kg (RCP-1U, single empty rack)

Order Information

Rectifier: RCP-1000-12-C

- C : with I²C interface
- —: without I²C interface
- 12: Output voltage(12V/24V/48V)

Rack Shelf: RCP-1U I

- I : AC inlet(IEC320-C14)
- T : Terminal block

Rectifier — 1000W

Model No.	Output	Tol.	R&N	Effi.
RCP-1000-12	12V, 0~60A	±1%	150mV	81.0%
RCP-1000-24	24V, 0~40A	±1%	200mV	87.0%
RCP-1000-48	48V, 0~21A	±1%	300mV	89.0%

19" Rack Power

1600~24000W Distributed Power

RCP-1600

RHP-1U

Features

- Universal AC input / Full range(Withstand 300VAC surge for 5 seconds)
- Built-in active PFC function
- Built-in auxiliary power
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Forced air cooling by built-in DC fan
- High power density up to 25W/inch^3
- 1U low profile (41mm height)
- Output voltage programmable; Constant current level Icc programmable
- Active current sharing up to 5 units, 3 racks max. can be operated in parallel (up to 15 units)
- Built-in remote ON/OFF control
- Built-in remote sense function
- AC OK and DC OK signal output
- Internal OR-ing FET, hot-swap operation
- Built-in PMBus serial communication, optional CANBus
- 5 years warranty

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

Parallel

Order No.	RCP-1600
AC input voltage range	90~264VAC, 127~370VDC
AC inrush current (max.)	Cold start, 35A at 230VAC
DC adjustment range	Vo: -1%~+22.5% by potentiometer, or to 40%~125% of rated output voltage by 1~5VDC external control signal Icc : to 20%~100% of rated output current by 1~5VDC external control signal
Overload protection (OLP)	105%~115% constant current limiting, shut down o/p voltage after 5 sec., re-power on to recover
Over voltage protection	130%~155% shut down o/p voltage, re-power on to recover
Withstand voltage	I/P-O/P:3kVAC, I/P-FG:2kVAC, O/P-F/G: 1.5kVAC
Working temperature	-30~+70°C (refer to output derating curve)
Safety standards	UL62368-1, TUV EN62368-1, EAC TP TC 004 approved
EMC standards	EN55032 class B (Radiation class A for RCP-1600), EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61000-6-2 heavy industry level
Connection	Positronic PCIM34W13M400A1
Dimension(LxWxH)	300x 85x 41mm (440x 365x 44mm for RHP-1U)
Case No.	250 (242A for RHP-1U)
Packing	1.87kg (RCP-1600, single unit); 5.5kg (RHP-1U, single empty rack)

Order Information

Rectifier: RCP-1600-12-C

- —: Standard model, PMBus protocol
- C : Optional model, CANBus protocol
- Output voltage(12V/24V/48V)

Rack Shelf: RHP-1U I-A

- For RCP/RCB-1600
- I : AC inlet(IEC320-C14)
- T : Terminal block

Rectifier — 1600W

Model No.	Output	Tol.	R&N	Effi.
RCP-1600-12	12V, 0~125A	±1%	150mV	88.5%
RCP-1600-24	24V, 0~67A	±1%	200mV	91.0%
RCP-1600-48	48V, 0~33.5A	±1%	300mV	93.0%

19" Rack Power 2000~18000W Distributed Power

MEAN WELL

Features

- Universal AC input / Full range(Withstand 300VAC surge for 5 seconds)
- Built-in active PFC function
- Built-in 5V/0.3A, 12V/0.8A auxiliary power
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Forced air cooling by built-in DC fan
- High power density 25W/inch^3
- 1U low profile (41mm height)
- Output voltage programmable
- Active current sharing up to 3 units in one 19" rack, 3 racks max. can be operated in parallel (up to 9 units)
- Built-in remote ON/OFF control
- Built-in remote sense function
- Internal OR-ing FET, hot-swap operation
- Built-in PMBus serial communication
- AC OK and DC OK signal, fan fail, OTP alarm signal
- 5 years warranty

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

Order No.	RCP-2000
AC input voltage range	90~264VAC, 127~320VDC
AC inrush current (max.)	Cold start, 50A at 230VAC
DC adjustment range	Vo: -12%~+15% by potentiometer, or to 90%~110% of rated output voltage by 1.5~4.5VDC external control signal
Overload protection	105%~125% constant current limiting, shut down o/p voltage after 5 sec., re-power on to recover
Over voltage protection	120%~145% shut down o/p voltage, re-power on to recover
Setup, rise, hold up time	1500ms, 60ms, 10ms at full load and 230VAC
Withstand voltage	I/P-O/P:3kVAC, I/P-FG:2kVAC, O/P-F/G: 0.7kVDC
Working temperature	-40~+70°C (refer to output derating curve)
Safety standards	UL62368-1, TUV EN62368-1, EAC TP TC 004 approved
EMC standards	EN55032 class A, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61000-6-2 heavy industry level
Connection	Positronic PCIM34W13M400A1
Dimension(LxWxH)	295x 127x 41mm (483.6x 350.8x 44mm for RKP-1U)
Case No.	974A (959A for RKP-1U)
Packing	2kg (RCP-2000, single unit); 4.7kg (RKP-1U, single empty rack)

Rectifier — 2000W

Model No.	Output	Tol.	R&N	Effi.
RCP-2000-12	12V, 0~100A	±2%	150mV	86.0%
RCP-2000-24	24V, 0~80A	±1%	200mV	90.5%
RCP-2000-48	48V, 0~42A	±1%	300mV	92.0%

Order Information for RCP-2000 and RKP-1U

Rectifier: RCP-2000- 12
- 12: Output voltage(12V/24V/48V)

Rack: RKP-1U I - CMU1
- CMU1: with RKP-CMU1
- — : without RKP-CMU1
- I : AC inlet(IEC320-C20)
- T : Terminal block

Control and Monitor Unit for RCP-2000

RKP-CMU1

CASE:959A
147.5x 127x 41 mm

RKP-1U□-CMU1

CASE: 959D
483.6x 350.8x 44 mm

- 1U low profile, rack mountable
- Control and monitor up to 9 RCP-2000 units
- Front panel LCD and buttons for on-site service without PC
- Alarm/event log with time and date
- Easy wire connections on rear side
- Windows-based PC communication software
- USB, RS-232 or Ethernet interface for PC connection locally or remote monitoring and control via GSM modem
- 4 user programmable relay outputs for traditional remote or warning
- 5 years warranty

DC input voltage range	12~15VDC
DC input current	1A at 12VDC, 0.8A at 15VDC
Output relay contact	4 user programmable relay
Working temperature	-25~+70°C (refer to output derating curve)
Safety standards	UL62368-1, TUV EN62368-1, EAC TP TC 004 approved for RKP-1U□-CMU1
Withstand voltage	I/P-O/P:3kVAC, I/P-FG:2kVAC, O/P-FG:0.7kVDC for RKP-1U□-CMU1; O/P-FG:0.7kVDC for RKP-CMU1
Isolation resistance	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms/500VDC for RKP-1U□-CMU1; O/P-FG:100M Ohms/500VDC for RKP-CMU1
EMC standards	EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61000-6-1 light industry level

Model No.	Application
RKP-CMU1	Control and monitor RCP-2000 series (single unit of RKP-CMU1)
RKP-1U□-CMU1	Control and monitor RCP-2000 series (19" rack with RKP-CMU1)

NEW

DRP-3200

DHP-1UT

Features

- Universal AC Input/ Full Range
- Built-in active PFC function
- High efficiency up to 94.5%
- High power density 37W/in³
- Cooling by built-in DC fan
- PV (Programmable voltage)and PC (Programmable constant current) functions
- Built-in OR-ing MOSFET, support hot swap/plug
- Active current sharing, 1 19" 1U rack up to 12800W, 2 racks up to 25600W in parallel
- I²C interface, support PMBus protocol (CANBus optional)
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Optional conformal coating
- 5 years warranty

Order Information

DRP-3200-24 [ ]

- [ ] : Communication protocol option
- 24 : Output voltage(24V/48V)
- 3200 : Output wattage
- DRP : Series name

DHP-1U T - A

- A : Rack shelf for 3200W unit
- T : T: Terminal block; I: AC inlet
- 1U : Profile of the system
- DHP : Series name

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

Parallel c UL us CB CE

Order No.	DRP-3200
AC input voltage range	90-264VAC; 127~370VDC
AC inrush current (max.)	Cold start, 17A/230VAC
DC adjustment range	24V: 23.5-30V; 48V: 47.5-58.8V
Over voltage protection	24V: 31.5-37.5V; 48V: 63-75V
Withstand voltage	I/P-O/P: 3KVAC; I/P-FG: 2KVAC; O/P-FG: 1.5KVAC (0.5KVAC for 24V)
Working temperature	-30~+70°C (refer to output derating curve)
Safety standards	UL62368-1, TUV EN62368-1, EAC TP TC 004 approved
EMC standards	Compliance with EN55032 (CISPR32) Conduction Class B, Radiation Class A; EN61000-3-2, -3-3, EAC TP TC 020, EN61000-4-2,3,4,5,6,8,11, EN61000-6-2
Connection	Positronic PCIM34W13F400A1
Dimension(LxWxH)(mm)	325x 107x 41(1U)
Case No.	256 (257 for DHP-1U)
Packing	2.65kg; 4pcs / 11.6kg / 0.93CUFT

1600W DRP-3200

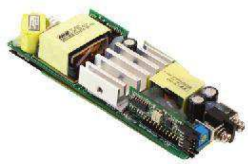
Model No.	Output	Efficiency
DRP-3200-24	24V, 0~133A	93.5%
DRP-3200-48	48V, 0~67A	94.5%

MEAN WELL

NEW

NMP650 (650W, 4 SLOTS)

NMP1K2 (1200W, 6 SLOTS)



NMS-240

Description

NMP family is a 1U low profile modular power (configurable type power supply) from MEAN WELL. This family comprises two power wattage for the line-up, 650W and 1200W, and the output modules deliver up to 240W with adjust options for the major working voltages used in industry 5V, 12V, 24V, 48V. NMP family complies with two categories of safety approvals, the medical standard (2x MOPP between primary to secondary) and offering the best flexibility for various types of applications.

Features

- Medical (2x MOPP) safety approval
- Suitable for BF application with appropriate system consideration (Touch current <100μA/264VAC)
- 1U low profile
- Universal AC input / Full range
- Output voltage and current programmable
- Built-in parallel function / Output programmable / Globalenable / Remote local ON-OFF / Auxiliary DC output / Over temperature alarm / DC OK
- Cooling by thermostatically controlled fan with fan alarm function
- Protections: Short circuit / Overload / Over voltage / Over temperature for all output modules
- 5 years warranty

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

Medical 2xMOPP

Model No.	NMP650	NMP1K2
AC input voltage range	90~264VAC ; 120~370VDC	
Power Factor	PF >0.95/230VAC, PF > 0.98/115VAC at full load	
AC inrush current (max.)	Cold start, 40A at 230VAC, 25A at 115VAC	
Max output power	650W	1200W
Efficiency (typical)	91%, full case load with H / K module at nominal 24V / 48V only	90.5%, full case load with H / K module at nominal 24V / 48V only
	88.5%, full case load with each type of module at nominal voltage	
Over temperature protection	Output shutdown, auto-recovery	
Withstand voltage	I/P-O/P: 4kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC	
Working temperature	-30~+50°C@100%, -30~+70°C @ 60% load at 230VAC	
Safety standards	ANSI/AAMI ES60601-1, TUV EN60601-1, IEC 60601-1 (3rd edition), EAC TP TC 004 approved; Design refer to UL62368-1, TUV EN62368-1	
EMC standards	EN55011, EN55032 Class B, EN61000-3-2,-3, EN61000-4-2,3,4,5,6,8,11, EN60601-1-2, EN55024 heavy industry level, criteria A	
Connection	Input side: 3P/9.5mm pitch terminal block &HRS DF11-10DP-2DS	
Dimension (LxWxH)(mm)	250x 89x 41	250x 127x 41

Modular Series

NMS-240: 1-SLOT isolated dual output (240W max.)

Item Code	Output	Vdc adj.	Tol.	R&N.	Max.
C	5V, 0~36A	3~6V	±2%	100mV	180W
E	12V, 0~20A	6~15V	±1%	150mV	240W
H	24V, 0~10A	15~30V	±1%	150mV	240W
K	48V, 0~5A	30~55V	±1%	250mV	240W

Introduction Video

Assembly Video

Parallel Connection Accessory	
FAP-009 (For NMS-240, 2 units)	
FAP-010 (For NMS-240, 3 units)	
NMS-240-P2/P3/P4/P5/P6 (to parallel NMS-240 in 2/3/4/5/6 modules)	
Series Connection Accessory	
FAS-005 (For 1-slot modules: NMS-240)	
Blank Plate Accessory	
Blank-NMS240	

Output Configuration Guide

NMP□□□-□ □ □ □ □ □-□□

SLOT 1 SLOT 2 SLOT 3 SLOT 4 SLOT 5 SLOT 6

650/1K2(650W/1200W)

For NMP1K2 only

Parallel or option code

Example:

NMP 1K2-C E H H K K

SLOT6-o/p: 48V@5A

SLOT5-o/p: 48V@5A

SLOT4-o/p: 24V@10A

SLOT3-o/p: 24V@10A

SLOT2-o/p: 12V@20A

SLOT1-o/p: 5V@36A

RSTP & SHP Series

7500W/15000W Single Output Power Supply

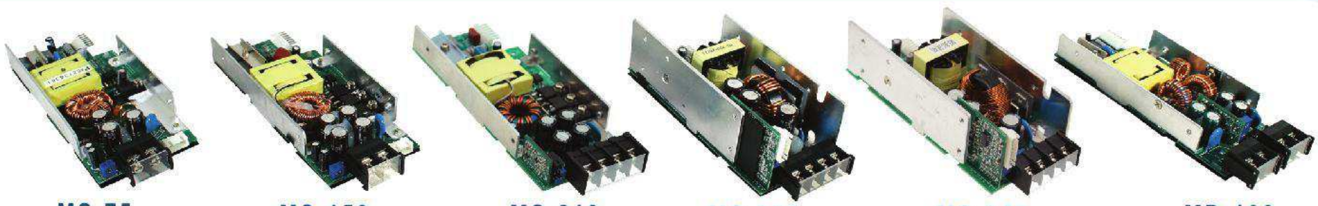
Under Development

- 3Φ-3-wire/ 340~550Vac wide input range
- Vo: 100/ 200/ 300/ 400Vdc
- Digitalized Power Supply Design
- Built-in Active PFC
- Forced air cooling by built-in DC fans(RSTP series), Conduction/Water cooling for industrial application(SHP series)
- Output voltage and constant current level programmable
- Active current sharing up to 30000W
- Built-in remote ON-OFF control / Remote sense / Auxiliary Power / Fault alarm signals
- Protections: Short circuit / Overload / Over voltage / Over temp. / Fan Fail
- 5 years warranty

Modular Series 450W/650W/1000W Configurable Power

MEAN WELL

MP450 (450W, 5 SLOT) MP650 (650W, 5 SLOT) MP1K0 (1000W, 7 SLOT)



MS-75 MS-150 MS-210 MS-300 MS-360 MD-100

Description

Modular series are switching power supplies with modular design that consist of two stages: front-end PFC and output modules. With 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, 210W, 300W, 360W 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 and get the fastest solution for their own power requirement with safety and EMC certificates. No NRE / safety application charges and long period of waiting for certificates! Providing standard products as usual, MEAN WELL offers you a revolutionary standard power solution that fulfills your custom-made request!

Output Configuration Guide

MP □ - □ □ □ □ □ □ □ - □

SLOT 1 SLOT 2 SLOT 3 SLOT 4 SLOT 5 SLOT 6 SLOT 7

- SLOT 6, SLOT 7: For MP1K0 only
- Last □: Parallel or option code
- First □: Max. output wattage (450 / 650 / 1K0)
- MP: Modular Power with PFC

Example:

MP650-1A 2 E H U

- 1A: SLOT 1-O/P:2V@35A
- 2 E: SLOT2,3-O/P:12V@25A
- H: SLOT4-O/P:24V@6.5A
- U: SLOT5-O/P:24V@2.5A, 5V@8A

Features

- Millions of output configuration is available
- 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 single output module (MS-75 / 150 / 210 / 300 / 360)
- Short circuit / Overload / Over voltage protections for all modules
- Parallel function for MS-210 (up to 5 units), MS-300/360 (up to 3 units)
- Margining control function (MS-210 / 360)
- Cooling by built-in DC fan with fan alarm function
- Additional 12V/0.1A auxiliary output for remote control
- 3 years warranty

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)	82.5%	84%	84%
Over temperature protection	Output shutdown, auto-recovery		
Fan alarm	Output shutdown when fan malfunctions		
Withstand voltage	I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC, 1 minute		
Working temperature	-20~+50°C@100%, +70°C @ 50% load		
Safety standards	UL62368-1, TUV EN62368-1, EAC TP TC 004 approved		
EMC standards	EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN55024 light industry level, criteria A, EAC TP TC 020		
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

Modular Series

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-210: 1-SLOT parallelable single output (210W max.)

Item Code	Output	★ Peak I	Vdc adj.	Tol.	R&N.
1A	2V, 0~35A	38.5A	1.6~2.6V	±3%	50mV
1B	3.3V, 0~35A	38.5A	2.6~4.0V	±2%	80mV
1C	5V, 0~35A	38.5A	4.0~6.0V	±2%	80mV
1D	7.5V, 0~28A	32.2A	6.0~9.0V	±2%	100mV
1E	12V, 0~17.5A	20.1A	9.0~13.2V	±1%	150mV
1F	15V, 0~14A	16.1A	13.2~16.8V	±1%	150mV
1G	18V, 0~11.6A	13.4A	16.8~20.0V	±1%	150mV
1H	24V, 0~8.75A	10.1A	20.0~26.4V	±1%	150mV
1I	27V, 0~7.8A	9.00A	25.0~31.0V	±1%	150mV
1J	33V, 0~6.4A	7.40A	30.0~40.0V	±1%	250mV
1K	48V, 0~4.4A	5.10A	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

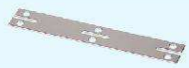
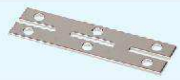
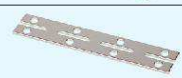
MS-360: 2-SLOT parallelable single output (360W max.)

Item Code	Output	★ Peak I	Vdc adj.	Tol.	R&N.
3A	2V, 0~60A	69.0A	1.6~2.6V	±3%	80mV
3B	3.3V, 0~60A	69.0A	2.6~4.0V	±2%	100mV
3C	5V, 0~60A	69.0A	4.0~6.0V	±2%	100mV
3D	7.5V, 0~48A	55.2A	6.0~9.0V	±2%	100mV
3E	12V, 0~30A	34.5A	9.0~13.2V	±1%	150mV
3F	15V, 0~24A	27.6A	13.2~16.8V	±1%	150mV
3G	18V, 0~20A	23.0A	16.8~20.0V	±1%	150mV
3H	24V, 0~15A	17.3A	20.0~26.4V	±1%	150mV
3I	27V, 0~13.4A	15.5A	25.0~31.0V	±1%	200mV
3J	33V, 0~11A	12.7A	30.0~40.0V	±1%	250mV
3K	48V, 0~7.5A	8.7A	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	

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

Parallel Connection Accessory	
FAP-001 (For MS-300, 2 units)	
FAP-002 (For MS-300, 3 units)	
FAP-003 (For MS-210, 2 units)	
FAP-004 (For MS-210, 3 units)	
FAP-005 (For MS-210, 4 units)	
FAP-006 (For MS-210, 5 units)	
FAP-007 (For MS-360, 2 units)	
FAP-008 (For MS-360, 3 units)	
Series Connection Accessory	
FAS-001 (For 1-slot modules: MS-75/150, MD-100)	
FAS-002 (For 2-slot modules: MS-300)	
FAS-003 (For 1-slot modules: MS-210)	
FAS-004 (For 2-slot modules: MS-360)	

► Please use MP450-CNPOQ, MP650-1A2EHU, 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.

LED Sign Panel 350~400W Economical Single Output

MEAN WELL

ERP-350

NEW

ERPF-400

Features

- ERP-350: 180~264VAC input only
  ERPF-400: 90~264VAC input
  (withstand 300VAC surge input for 5 sec.)
- Built-in active PFC function (ERPF-400)
- Semi-potted and design against rain splash
- Fanless design, cooling by free air convection
- Protections: Short circuit / Overload / Over voltage / Over temperature
- LED indicator for power on
- Low cost, high reliability
- Suitable for channel letter, strip lighting and moving sign applications
- 3 years warranty

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

Model No.		ERP-350	ERPF-400
AC input voltage range		180~264VAC; 254~370VDC	90~264VAC; 127~370VDC
AC inrush current (max.)		Cold start, 90A at 230VAC	
Setup, rise, hold up time		1500ms, 200ms, 20ms at 230VAC	2000ms, 100ms, 10ms at 230VAC
DC adjustment range		±10% rated output voltage	
Overload protection	Range	110%~180% rated output power	105%~135% rated output power
	Type	Hiccup mode, auto-recovery	Constant current limiting, auto-recovery
Over voltage protection	Range	12V: 13.8~16.2V, 24V: 27.6~32.4V, 36V: 41.4~46.8V, 48V: 57.6~67.2V	12V: 13.8~16.2V, 24V: 27.6~32.4V, 48V: 55.2~64.8V
	Type	Hiccup mode, auto-recovery	Shut down O/P voltage, re-power on to recover
Withstand voltage		I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC	
Working temperature		-30~+60°C (refer to output derating curve)	
Safety standards		UL62368-1, CQC GB4943.1(24~48V), EAC TP TC 004 approved	UL62368-1, TUV EN62368-1, CCC GB4943.1, EAC TP TC 004 approved
EMC standards		Design refer to EN55032 class A, EAC TP TC 020, EN61000-4-5	Compliance to GB17625.1, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN55032 class A, GB9254 class A, EAC TP TC 020
Connection	Input	9P / 9.5mm pitch terminal block	
	Output		
Dimension (LxWxH) (mm)		220.4x 130x 48	
Packing		0.9kg; 9pcs / 11kg / 0.63CUFT	1.1kg; 9pcs / 11kg / 0.63CUFT

ERP-350 Series

CB (ERP-350-24~48)

Model No.	Output	Tol.	R&N	Effi.
ERP-350-12	12V, 0~26.7A	±1%	150mV	87%
ERP-350-24	24V, 0~14.6A	±1%	150mV	89%
ERP-350-36	36V, 0~9.7A	±1%	240mV	90%
ERP-350-48	48V, 0~7.3A	±1%	240mV	90%

ERPF-400 Series

NEW CB

Model No.	Output	Tol.	R&N	Effi.
ERPF-400-12	12V, 0~30A	±1%	150mV	89%
ERPF-400-24	24V, 0~16.7A	±1%	150mV	90%
ERPF-400-48	48V, 0~8.3A	±1%	240mV	91%

LED Sign Panel 200W Slim Width and Low Profile

MEAN WELL

Features

- Universal AC input / Full range
- Withstand 300VAC surge input for 5 seconds
- Slim width and low profile (26mm)
- Built-in active PFC function
- 150% peak load capability (100ms)
- Fanless design, cooling by free air convection
- Protections:
  Short circuit / Overload / Over voltage / Over temperature
- DC OK signal
- LED indicator for power on (LHP-200 only)
- Suitable for moving sign applications
- 3 years warranty

(UHP-200A) (UHP-200A) (UHP-200A)

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

Model No.	UHP-200A	LHP-200
AC input voltage range	90~264VAC; 141~370VDC	
Leakage current	Less than 1mA at 240VAC	
AC inrush current (max.)	Cold start, 85A at 230VAC	Cold start, 40A/115VAC, 80A/230VAC
DC adjustment range	4.2V: 4.0~4.4V, 4.5V: 4.3~4.7V, 5V: 4.7~5.3V	4.2V: 3.8~4.2V, 4.6V: 4.2~4.6V, 5V:4.5~5V
Overload protection	110%~140% rated output power	125%~175% rated output power
Over voltage protection	110%~140% rated output voltage	5.5~ 6V Shut down O/P voltage, with auto-recovery
Setup, rise, hold up time	2000ms, 200ms, 10ms at 230VAC	2000ms, 100ms, 10ms / 230VAC at full load
Withstand voltage	I/P-O/P:3kVAC, I/P-FG:2kVAC, O/P-F/G: 0.5kVDC	I/P-O/P:3.0KVAC, I/P-FG:1.5KVAC, O/P-FG:0.5KVAC
Working temperature	-30~+70°C (refer to output derating curve)	-40~+80°C (refer to output derating curve)
Vibration	10~500Hz, 5G 10min. / 1 cycle, period for 60 min., each along X, Y, Z axes	1 ~ 200Hz, 2G 10min./1cycle, period for 30min. each along X, Y, Z axes
Safety standards	UL62368-1, TUV EN62368-1, CCC GB4943, EAC TP TC 004 approved	UL62368-1,EN62368-1,CCC GB4943.1, EAC TP TC 004 approved
EMC standards	EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN55024, GB9254, GB17625.1, EAC TP TC 020	Compliance to EN55032,GB/T9254 Class B, EN61000-3-2,EN61000-3-3,GB17625.1, EN55024 EN61000-4-2,3,4,5,6,8,11, EAC TP TC 020
Dimension (LxWxH)(mm)	167x 55x 26	220x 50x 26

200W NEW UHP-200A

Model No.	Output	Tol.	R&N	Effi.
UHP-200A-4.2	4.2V, 0~40A	±4%	200mV	88%
UHP-200A-4.5	4.5V, 0~40A	±4%	200mV	88%
UHP-200A-5	5V, 0~40A	±4%	200mV	88.5%

200W NEW LHP-200

Model No.	Output	Tol.	R&N	Effi.
LHP-200-4.2	4.2V, 0~40A	±5%	200mV	90%
LHP-200-4.5	4.6V, 0~40A	±5%	200mV	91%
LHP-200-5	5V, 0~40A	±5%	200mV	91%

Harsh Environment

100~150W Single Output

MEAN WELL

Features

- Universal AC input 90~305VAC
- Built-in active PFC function
- High efficiency up to 94%
- Fanless design, cooling by free air convection
- Ultra-wide operating range
- Meet 6kV surge immunity level
- Withstand 10G vibration test
- Operating altitude up to 5000 meters
- Protections:
  Short circuit / Overload / Over voltage / Over temperature
- Multiple models for choice:
  A-Type: IP65 rated, Vo and Io can be adjusted through internal potentiometer
  Blank-Type(option): IP68 rated, Vo and Io fixed
- Suitable for general industrial applications at high/low temperature, high dust, high moisture, high vibration, high salt or outdoor environment
- 6 years warranty

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

Model No.		HEP-100	HEP-150
AC input voltage range		90~305VAC, 127~431VDC	
AC inrush current (max.)		Cold start, 60A at 230VAC	Cold start, 65A at 230VAC
DC adjustment range		Vo: -10%~+10% by potentiometer (A-Type only) Io: 60%~100% of rated output current adjustment by potentiometer(A-Type only)	
Overload protection		105%~125% constant current limiting, auto-recovery	
Over voltage protection		108%~135% rated output voltage	
Setup, rise, hold up time		500ms, 50ms, 16ms at full load and 230VAC	
Withstand voltage		I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 1.5kVAC	
Working temperature		-55~+70°C (refer to output derating curve)	
Safety standards		UL62368-1, EAC TP TC 004 approved ; Design refer to TUV EN62368-1	
EMC standards		EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EAC TP TC 020	
Connection	Input	UL rated, SJTW 18AWGx3C(30cm)	
	Output	SJTW 14AWGx2C(30cm)	
Dimension (LxWxH)(mm)		220x 68x 38.8	228x 68x 38.8

100W HEP-100

Model No.	Output	Tol.	R&N	Effi.
HEP-100-12☐A	12V, 0~8.34A	±1.0%	120mV	92%
HEP-100-15☐A	15V, 0~6.67A	±1.0%	150mV	92%
HEP-100-24☐A	24V, 0~4.00A	±1.0%	150mV	93%
HEP-100-36☐A	36V, 0~2.65A	±1.0%	200mV	93%
HEP-100-48☐A	48V, 0~2.00A	±1.0%	200mV	93%
HEP-100-54☐A	54V, 0~1.77A	±1.0%	200mV	93%

☐ = A or Blank, A: standard model(IP65), Blank: optional model(IP68)

150W HEP-150

Model No.	Output	Tol.	R&N	Effi.
HEP-150-12☐A	12V, 0~12.5A	±2.5%	150mV	91.5%
HEP-150-15☐A	15V, 0~10.0A	±2.0%	150mV	92.0%
HEP-150-24☐A	24V, 0~6.30A	±1.0%	150mV	93.0%
HEP-150-36☐A	36V, 0~4.20A	±1.0%	200mV	93.5%
HEP-150-48☐A	48V, 0~3.20A	±1.0%	200mV	94.0%
HEP-150-54☐A	54V, 0~2.80A	±1.0%	200mV	94.0%

☐ = A or Blank, A: standard model(IP65), Blank: optional model(IP68)

Harsh Environment

185~240W Single Output

MEAN WELL

Features

- Universal AC input 90~305VAC
- Built-in active PFC function
- High efficiency up to 94%
- Fanless design, cooling by free air convection
- Ultra-wide operating range
- Meet 6kV surge immunity level
- Withstand 10G vibration test
- Operating altitude up to 5000 meters
- Protections:
  Short circuit / Overload / Over voltage / Over temperature
- Multiple models for choice:
  A-Type: IP65 rated, Vo and Io can be adjusted through internal potentiometer
  Blank-Type(option): IP68 rated, Vo and Io fixed
- Suitable for general industrial applications at high/low temperature, high dust, high moisture, high vibration, high salt or outdoor environment
- 6 years warranty

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

Model No.		HEP-185	HEP-240
AC input voltage range		90~305VAC, 127~431VDC	
AC inrush current (max.)		Cold start, 65A at 230VAC	Cold start, 75A at 230VAC
DC adjustment range		Vo: -10%~+10% by potentiometer (A-Type only) Io: 50%~100% of rated output current by potentiometer(A-Type only)	Vo: -6%~+6% by potentiometer (HEP-240 A-Type only) Io: 50%~100% of rated output current by potentiometer (A-Type only)
Overload protection		105%~125% constant current limiting, auto-recovery	105%~125% hiccup mode, auto-recovery
Over voltage protection		108%~135% rated output voltage	
Setup, rise, hold up time		500ms, 50ms, 16ms at full load and 230VAC	500ms, 80ms, 15ms at full load and 230VAC
Withstand voltage		I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 1.5kVAC	
Working temperature		-55~+70°C (refer to output derating curve)	
Safety standards		UL62368-1, EAC TP TC 004 approved ; Design refer to TUV EN62368-1	
EMC standards		EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EAC TP TC 020	
Connection	Input	UL rated, SJTW 18AWGx3C(30cm)	
	Output	SJTW 14AWGx2C(30cm)	
Dimension (LxWxH)(mm)		228x 68x 38.8	244.2x 68x 38.8

185W HEP-185

Model No.	Output	Tol.	R&N	Effi.
HEP-185-12☐	12V, 0~13.0A	±2.5%	150mV	91.5%
HEP-185-15☐	15V, 0~11.5A	±2.0%	150mV	92.0%
HEP-185-24☐	24V, 0~7.80A	±1.0%	150mV	93.5%
HEP-185-36☐	36V, 0~5.20A	±1.0%	200mV	93.5%
HEP-185-48☐	48V, 0~3.90A	±1.0%	200mV	94.0%
HEP-185-54☐	54V, 0~3.45A	±1.0%	200mV	94.0%

☐ = A or Blank, A: standard model(IP65), Blank: optional model(IP68)

240W HEP-240

Model No.	Output	Tol.	R&N	Effi.
HEP-240-12☐	12V, 0~16.0A	±2.5%	150mV	90.0%
HEP-240-15☐	15V, 0~15.0A	±2.0%	150mV	90.0%
HEP-240-24☐	24V, 0~10.0A	±1.0%	150mV	92.5%
HEP-240-36☐	36V, 0~6.70A	±1.0%	250mV	92.5%
HEP-240-48☐	48V, 0~5.00A	±1.0%	250mV	93.0%
HEP-240-54☐	54V, 0~4.45A	±1.0%	350mV	93.5%

☐ = A or Blank, A: standard model(IP65), Blank: optional model(IP68)

Harsh Environment
320~480W Single Output

MEAN WELL

	INPUT	OUTPUT
Standard		
Optional (Contact MW for details)		

Features

- Universal AC input 90~305VAC
- Built-in active PFC function
- High efficiency up to 95%
- Fanless design, cooling by free air convection
- Ultra-wide operating temperature
- Meet 6kV surge immunity level
- Withstand 10G vibration test
- Operating altitude up to 5000 meters
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Multiple models for choice:
  A-Type: IP65 rated, Vo and Io can be adjusted through internal potentiometer
  Blank-Type(option): IP68 rated, Vo and Io fixed
- Suitable for general industrial applications at high/low temperature, high dust, high moisture, high vibration, high salt or outdoor environment
- 6 years warranty

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

Model No.		HEP-320	HEP-480
AC input voltage range		90~305VAC; 127~431VDC	
AC inrush current (max.)		Cold start, 70A at 230VAC	Cold start, 35A at 230VAC
DC adjustment range		Vo: -10%~+10% by potentiometer (HEP-320 A-Type only) Io: 50%~100% of rated output current by potentiometer (A-Type only)	Vo: -15%~+5% by potentiometer Io: 50%~100% of rated output current by potentiometer
Overload protection		105%~125% hiccup mode, auto-recovery	105%~125% constant current limiting, auto-recovery
Over voltage protection		108%~135% rated output voltage	
Setup, rise, hold up time		500ms, 80ms, 15ms at full load and 230VAC	500ms, 80ms, 16ms at full load and 230VAC
Withstand voltage		I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 1.5kVAC	
Working temperature		-55~+70°C (refer to output derating curve)	-55~+65°C (refer to output derating curve)
Safety standards		UL62368-1, EAC TP TC 004 approved ; Design refer to TUV EN62368-1	
EMC standards		EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EAC TP TC 020, EN55024	
Connection	Input	UL rated, SJTW 18AWGx3C (30cm)	UL rated, SJOW 17AWGx3C (30cm)
	Output	SJTW 14AWGx2C (30cm)	SJOW 17AWGx2C+17AWGx2C
Dimension (LxWxH)(mm)		252x 90x 43.8	262x 125x 43.8

320W HEP-320

Model No.	Output	Tol.	R&N	Effi.
HEP-320-12☐A	12V, 0~22.0A	±3.0%	150mV	91.0%
HEP-320-15☐A	15V, 0~19.0A	±2.0%	150mV	92.5%
HEP-320-24☐A	24V, 0~13.34A	±1.0%	150mV	94.0%
HEP-320-36☐A	36V, 0~8.90A	±1.0%	250mV	94.0%
HEP-320-48☐A	48V, 0~6.70A	±1.0%	250mV	94.5%
HEP-320-54☐A	54V, 0~5.95A	±1.0%	350mV	95.0%

☐ = A or Blank, A: standard model(IP65), Blank: optional model(IP68)

480W NEW HEP-480

Model No.	Output	Tol.	R&N	Effi.
HEP-480-24☐A	24V, 0~20A	±1.0%	200mV	94.0%
HEP-480-36☐A	36V, 0~13.3A	±1.0%	250mV	95.0%
HEP-480-48☐A	48V, 0~10A	±1.0%	250mV	94.5%
HEP-480-54☐A	54V, 0~8.9A	±1.0%	350mV	95.0%

☐ = A or Blank, A: standard model(IP65), Blank: optional model(IP68)

Harsh Environment 600~1000W Single Output

MEAN WELL

Features

- Universal AC input 90~305VAC
- Built-in active PFC function
- No load power consumption <0.5W at remote OFF
- High efficiency up to 96.5%
- Fanless design, cooling by free air convection
- Ultra-wide operating temperature
- Withstand 10G vibration test
- Operating altitude up to 5000 meters
- Protections: Short circuit / Overload / Over voltage / Over temperature
- IP65 rated, Vo and Io can be adjusted through internal potentiometer
- Suitable for general industrial applications at high/low temperature, high dust, high moisture, high vibration, high salt or outdoor environment
- 6 years warranty

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

Model No.		HEP-600	HEP-1000
AC input voltage range		90~305VAC; 127~431VDC	
AC inrush current (max.)		Cold start, 70A at 230VAC	Cold start, 40A at 230VAC
DC adjustment range		Vo: -15%~+5% by potentiometer Io: to 50%~100% of rated output current by potentiometer	Vo: -10%~+15% by potentiometer Io: to 50%~100% of rated output current by potentiometer
Overload protection		105%~125% constant current limiting, auto-recovery	
Over voltage protection		108%~135% rated output voltage	120%~135% rated output voltage
Setup, rise, hold up time		500ms, 80ms, 15ms at full load and 230VAC	500ms, 80ms, 16ms at full load and 230VAC
Withstand voltage		I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 1.5kVAC	
Working temperature		-40~+70°C (refer to output derating curve)	-55~+70°C (refer to output derating curve)
Safety standards		UL62368-1, TUV EN62368-1, EAC TP TC 004 approved	
EMC standards		EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EAC TP TC 020	
Connection	Input	3+7P / 11mm pitch terminal block with cover	
	Output		
Dimension (LxWxH)(mm)		280x 144x 48.5	310x 144x 48.5

600W HEP-600

Model No.	Output	Tol.	R&N	Effi.
HEP-600-12	12V, 0~40A	±3.0%	150mV	93.0%
HEP-600-15	15V, 0~36A	±2.0%	150mV	94.0%
HEP-600-20	20V, 0~28A	±1.5%	150mV	95.0%
HEP-600-24	24V, 0~25A	±1.0%	150mV	95.0%
HEP-600-30	30V, 0~20A	±1.0%	200mV	95.5%
HEP-600-36	36V, 0~16.7A	±1.0%	250mV	95.5%
HEP-600-42	42V, 0~14.3A	±1.0%	250mV	96.0%
HEP-600-48	48V, 0~12.5A	±1.0%	250mV	96.0%
HEP-600-54	54V, 0~11.2A	±1.0%	350mV	96.0%

1000W Coming Soon HEP-1000

Model No.	Output	Tol.	R&N	Effi.
HEP-1000-24	24V, 0~42V	±1.0%	200mV	95.0%
HEP-1000-30	30V, 0~33.5A	±1.0%	200mV	95.5%
HEP-1000-36	36V, 0~28A	±1.0%	250mV	95.5%
HEP-1000-48	48V, 0~21A	±1.0%	250mV	96.5%

Security Series
40~100W Single Output

MEAN WELL

DRC-40 DRC-60 DRC-100

Features

- Single output with battery charger (UPS function)
- Universal AC input / Full range
- Can be installed on DIN rail TS-35/7.5 or 15
- 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
- Pass LPS (DRC-40/60)
- LED indicator for power on
- 100% full load burn-in test
- 3 years warranty

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

Model No.	DRC-40	DRC-60	DRC-100
AC input voltage range	90~264VAC; 127~370VDC		
AC inrush current (max.)	Cold start, 30A at 115VAC, 60A at 230VAC		
DC adjustment range	CH1,13.8V: 12~15V; 27.6V:24~30V		
Overload protection	105%~150% hiccup mode, auto-recovery		
Over voltage protection	105%~135% rated output voltage		
Setup, rise, hold up time	400ms, 50ms, 50ms at full load and 230VAC		2400ms, 50ms, 50ms at full load and 230VAC
Withstand voltage	I/P-O/P:3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC		
Working temperature	-30~+70°C (refer to output derating curve)		
Safety standards	UL62368-1, TUV EN62368-1, EAC TP TC 004 approved		
EMC standards	EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EAC TP TC 020		
Connection (screw DIN terminal)	I/P:3 poles, O/P: 8 poles		I/P:3 poles, O/P: 10 poles
Case No.	962A		973A
Dimension (LxWxH)(mm)	40x 90x 100		55x 90x 100

40W DRC-40

Model No.	Output	Tol.	R&N	Effi.	Max.
DRC-40A	13.8V, 0~2.9A	±1%	120mV	86%	40W
	13.8V, 0~1.0A	(Charger)			
DRC-40B	27.6V, 0~1.45A	±1%	200mV	87%	40W
	27.6V, 0~0.5A	(Charger)			

100W DRC-100

Model No.	Output	Tol.	R&N	Effi.	Max.
DRC-100A	13.8V, 0~7A	±1%	120mV	87%	97W
	13.8V, 0~2.5A	(Charger)			
DRC-100B	27.6V, 0~3.5A	±1%	240mV	89%	97W
	27.6V, 0~1.25A	(Charger)			

60W DRC-60

Model No.	Output	Tol.	R&N	Effi.	Max.
DRC-60A	13.8V, 0~4.3A	±1%	120mV	86%	59W
	13.8V, 0~1.5A	(Charger)			
DRC-60B	27.6V, 0~2.15A	±1%	200mV	88%	59W
	27.6V, 0~0.75A	(Charger)			

Security Series

35~160W Single Output

MEAN WELL

PSC-35
(3.3"x2")

PSC-60
(4"x2")

PSC-100
(5"x3")

PSC-160
(6"x3")

PSC-35x-C

PSC-60x-C

PSC-100x-C

PSC-160x-C

Features

- Single output with battery charger (UPS function)
- Universal AC input / Full range
- PCB and enclosed type with metal case available
- Compact size
- Built-in active PFC function (PSC-160)
- 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
- 2 years warranty

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

Model No.		PSC-35□	PSC-60□	PSC-100□	PSC-160□
AC input voltage range		90~264VAC; 127~370VDC			
AC inrush current (max.)		Cold start, 40A at 230VAC	60A at 230VAC	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%, shut off, re-power on to recover	CH1, 105%~135%, hiccup mode, auto recovery	CH1, 105%~135%, shut off, re-power on to recover	
Withstand voltage		I/P-O/P:3kVAC, I/P-FG: 2kVAC, O/P-FG:0.5kVAC			
Working temperature		-30~+70°C (refer to output derating curve)	-20~+70°C (refer to output derating curve)		
Safety standards		UL62368-1, TUV EN62368-1, EAC TP TC 004 approved			
EMC standards		EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EAC TP TC 020			
Connection		3+6P/3.96mm pitch, JST: B3P/B6P-VH		3+8P/3.96mm pitch, 4P/2.5mm pitch, JST: B3P/B8P-VH, B4B-XH	
Dimension (LxWxH)(mm)	PCB Type	84.6x 50.8x 24	101.6x 50.8x 29	127x 76.2x 31	152.4x 76.2x 32
	Enclosed Type	86.4x 59.6x 30	103.4x 62x 37	130x 85x 37	155.4x 85x 37

35W — PSC-35

Model No.	Output	Tol.	R&N	Effi.	Max.
PSC-35A□	13.8V, 0~2.6A	±1%	120mV	84%	36W
	13.8V, 0~0.9A	(Charger)			
PSC-35B□	27.6V, 0~1.3A	±1%	240mV	86%	36W
	27.6V, 0~0.45A	(Charger)			

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

100W — PSC-100

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

60W — PSC-60

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

160W — PSC-160

Model No.	Output	Tol.	R&N	Effi.	Max.
PSC-160A□	13.8V, 0~11.6A	±1%	150mV	88%	160W
	13.8V, 0~4A	(Charger)			
PSC-160B□	27.6V, 0~5.8A	±1%	240mV	90%	160W
	27.6V, 0~2A	(Charger)			

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

55W 1~2 Output with Battery Charger

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 / EAC
- 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: ±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 ... 1400ms, 50ms, 80ms at full load and 230VAC
Withstand voltage I/P-O/P:3kVAC, I/P-FG:2kVAC, O/P-FG:0.5kVAC
Working temperature .... -10~+60°C (refer to output derating curve)
Safety standards .... UL62368-1, TUV EN62368-1, EAC TP TC 004 approved
EMC standards .... EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EAC TP TC 020
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	±1%	100mV	76%	51W
	5V, 0~4.0A	±3%	100mV		
ADS-5524	24V, 0~2.5A	±1%	100mV	79%	58W
	5V, 0~4.0A	±3%	100mV		

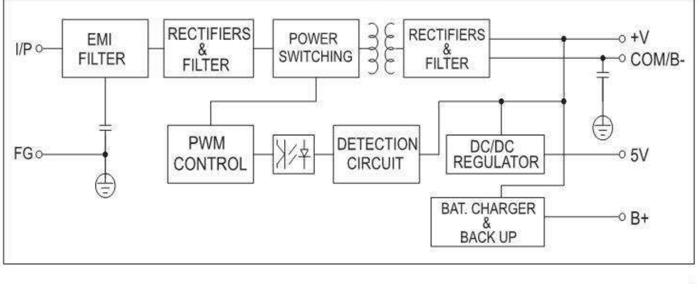
Single Output with Battery Charger (UPS Function)

Model No.	Output	Tol.	R&N	Effi.	Max.
AD-55A	13.8V, 0~4.0A	±1%	100mV	71%	51W
	13.4V, 0~0.23A	(Charger)			
AD-55B	27.6V, 0~2.0A	±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	±1%	100mV	71%	53W
	5V, 0~4.00A	±3%	100mV		
	13.4V, 0~0.23A	(Charger)			
ADD-55B	27.6V, 0~2.00A	±1%	150mV	74%	55W
	5V, 0~4.00A	±3%	150mV		
	26.5V, 0~0.16A	(Charger)			

Block Diagram



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

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 / EAC
- 100% full load burn-in test
- 2 years warranty

AC input voltage range ..... 88~264VAC; 124~370VDC
AC inrush current .... Cold start, 23A at 115VAC, 45A at 230VAC
DC adjustment range .... 12V, 24V, 48V: ±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:2kVAC, O/P-FG: 0.5kVAC
Working temperature .... -10~+60°C (refer to output derating curve)
Safety standards .... UL62368-1, TUV EN62368-1, EAC TP TC 004 approved
EMC standards .... EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EAC TP TC 020
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	±2%	150mV	77%	153W
	5V, 0~3.00A	±3%	100mV		
ADS-15524	24V, 0~6.50A	±1%	150mV	82%	154W
	5V, 0~3.00A	±3%	100mV		
ADS-15548	48V, 0~3.20A	±1%	240mV	82%	154W
	5V, 0~3.00A	±5%	100mV		

Single Output with Battery Charger (UPS Function)

Model No.	Output	Tol.	R&N	Effi.	Max.
AD-155A	13.8V, 0~11.5A	±2%	150mV	80%	152W
	13.3V, 0~0.50A	(Charger)			
AD-155B	27.6V, 0~5.50A	±1%	150mV	84%	152W
	27.1V, 0~0.50A	(Charger)			
AD-155C	54.0V, 0~2.70A	±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	±1%	150mV	78%	153W
	5V, 0~3.00A	±3%	100mV		
	13.3V, 0~0.50A	(Charger)			
ADD-155B	27.6V, 0~5.00A	±1%	200mV	81%	153W
	5V, 0~3.00A	±3%	100mV		
	27.1V, 0~0.50A	(Charger)			
ADD-155C	54.0V, 0~2.50A	±1%	240mV	81%	150W
	5V, 0~3.00A	±5%	100mV		
	53.5V, 0~0.20A	(Charger)			

Security Series/ATX Power

35~75W Single Output

- Universal AC input / Full range
- Protections:
  Short circuit / Overload / Over voltage / Battery reverse polarity protection by fuse
- Cooling by free air convection
- No load power consumption <0.75W
- Suitable for installation in metallic or non-metallic system enclosure
- Temperature compensation function
- LED indicator for power on
- 2 years warranty

SCP-35
99x 97x 36 mm

SCP-50
129x 98x 38 mm

SCP-75
159x 97x 38 mm

AC input voltage range ...... 85~264VAC; 120~370VDC
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, 30ms, 50ms at full load and 230VAC
Withstand voltage .... I/P-O/P: 3kVAC, I/P-FG:2kVAC, 1minute
Working temperature .... -20~+60°C (refer to output derating curve)
Safety standards .... UL62368-1, EAC TP TC 004 approved
EMC standards .... EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EAC TP TC 020
Connection .... I/P: 3 poles, O/P: 2 poles screw terminal

✧ 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	±2%	120mV	81%	75W
SCP-75-24	27.6V, 0~2.7A	±1%	200mV	85%	75W

300W Industrial ATX PC Power Supply

260x 83x 40 mm

- Universal AC input / Full range
- Low profile for 1U/2U rack system
- Built-in active PFC function
- Protections: Short circuit / Overload / Over voltage
- With power good and fail signal output
- Forced air cooling by built-in DC fan
- PS-ON signal input
- 2 years warranty

AC input voltage range ..... 90~264VAC, 127~370VDC
Setup, rise, hold up time ... 800ms, 20ms, 16ms at 230VAC
Overload protection .... 105%~150% shut off, re-power on to recover
Over voltage protection ..... 110%~140% rated output voltage for CH1~CH3
Withstand voltage .... I/P-O/P: 1.5kVAC, I/P-FG:2kVAC, 1minute
Working temperature .... -10~+60°C (refer to output derating curve)
Safety standards .... UL62368-1, TUV EN62368-1, EAC TP TC 004 approved
EMC standards .... EN55032 class B, EN61000-3-2,-3, EN61000-4-2,3,4,5,6,8,11, EAC TP TC 020

Model No.	Output	Tol.	R&N	Effi.	Max.
IPC-300A	3.3V, 0~20A	±5%	50mV	75%	300W
	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		
IPC-300B	24V, 0~3.0A	±5%	240mV	80%	300W
	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		

DC/DC Converter

15~60W DIN Rail Type

MEAN WELL

Features

- Compact size with 1SU~3SU width
- 4:1 ultra-wide input range
- Protections: Short circuit / Overload / Over voltage / Input reverse polarity / Input under voltage
- Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- 3000VDC I/O isolation (Rainforce isolation)
- -40~+85°C ultra-wide operating temperature
- DC output adjustable (±10%)
- 3 years warranty

Industrial

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

Model No.	DDR-15	DDR-30	DDR-60
DC input range	G: 9~36V, L: 18~75V		
Line regulation (1 sec.)	±0.5%		
Load regulation (max.)	±0.5%		
Overload protection	110%~150% hiccup mode, recovers automatically after fault condition is removed		
Over voltage protection	115%~135% Shut down O/P voltage, re-power on to recover		
Withstand voltage	I/P-O/P: 3kVDC		
Isolation resistance	100MΩ@500VDC		
Working temperature(min.)	-40~+85°C (refer to output derating curve)		
Safety standards	IEC62368(LVD), EAC TP TC 004; Design refer to UL508		
EMC standards	EN55032 class B, EN61000-3-3, EN61000-4-2,3,4,5,6,8, EN55024, EN61000-6-2(EN50082-2)		
Dimension (LxWxH)(mm)	17.5x 90x 54.5	35x 90x 54.5	52.5x 90x 54.5

15W DDR-15

Model No.	Vin (VDC)	Vout (VDC)	Iout (A)	R&N (mVp-p)	Effi. (%)
DDR-15G-3.3	9~36	3.3	3.5	50	84
DDR-15G-5	9~36	5	3	50	84
DDR-15G-12	9~36	12	1.25	60	85
DDR-15G-15	9~36	15	1	75	85
DDR-15G-24	9~36	24	0.63	100	86
DDR-15L-3.3	18~75	3.3	4.5	50	84
DDR-15L-5	18~75	5	3	50	85
DDR-15L-12	18~75	12	1.25	60	86
DDR-15L-15	18~75	15	1	75	86
DDR-15L-24	18~75	24	0.63	100	87

30W DDR-30

Model No.	Vin (VDC)	Vout (VDC)	Iout (A)	R&N (mVp-p)	Effi. (%)
DDR-30G-5	9~36	5	6	60	85
DDR-30G-12	9~36	12	2.5	75	86
DDR-30G-15	9~36	15	2	75	87
DDR-30G-24	9~36	24	1.25	100	89

Model No.	Vin (VDC)	Vout (VDC)	Iout (A)	R&N (mVp-p)	Effi. (%)
DDR-30L-5	18~75	5	6	60	86
DDR-30L-12	18~75	12	2.5	75	89
DDR-30L-15	18~75	15	2	75	90
DDR-30L-24	18~75	24	1.25	100	91

60W DDR-60

Model No.	Vin (VDC)	Vout (VDC)	Iout (A)	R&N (mVp-p)	Effi. (%)
DDR-60G-5	9~36	5	10.8	60	87.5
DDR-60G-12	9~36	12	5	75	91
DDR-60G-15	9~36	15	4	75	91
DDR-60G-24	9~36	24	2.5	100	91
DDR-60L-5	18~75	5	12	60	87.5
DDR-60L-12	18~75	12	5	75	91
DDR-60L-15	18~75	15	4	75	92
DDR-60L-24	18~75	24	2.5	100	92

DC/DC Converter

120~240W DIN Rail Type

DDR-120 DDR-240

Features

- ITE & Railway safety
- 2:1 wide input range
- 150% peak load capability
- Protections:
  Short circuit / Overload / Over voltage / Over temperature / Input reverse polarity / Input under voltage
- Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- 4000VDC I/O isolation (Rainforce isolation)
- -40~+70°C wide operating temperature
- DC output adjustable
- DC OK relay contact (DDR-240 only)
- Current sharing up to 960W (3+1) for DDR-240
- 3 years warranty

EAC CE Industrial Railway

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

Model No.		DDR-120	DDR-240
DC input range		A: 9~18V, B: 16.8~33.6V, C: 33.6~67.2V, D: 67.2~154V	B: 16.8~33.6V, C: 33.6~67.2V, D: 67.2~154V
Line regulation (1 sec.)		±0.5%	
Load regulation (max.)		±1%	
Overload protection		105%~135% rated output power for more than 3 seconds and then shut down O/P voltage with auto-recovery	
Over voltage protection		120%~135% Shut down O/P voltage, re-power on to recover	
Withstand voltage		I/P-O/P: 4kVDC, I/P-FG: 2.5kVDC, O/P-FG: 2.5kVDC	
Isolation resistance		100MΩ@500VDC	
Working temperature(min.)		-40~+70°C (refer to output derating curve)	
Safety standards	Industrial	IEC62368-1(LVD), EAC TP TC 004	
	Railway	EN50155 / IEC60571, IEC61373, EN45545-2 (except for 9~18Vin)	
EMC standards		EN55032 class B, EN61000-3,-2,-3, EN61000-4-2,3,4,5,6,8, EAC TP TC 020; EN50121-3-2 (except for 9~18Vin)	
Dimension (LxWxH)(mm)		32x 125.2x 102	40x 125.2x 113.5

120W DDR-120

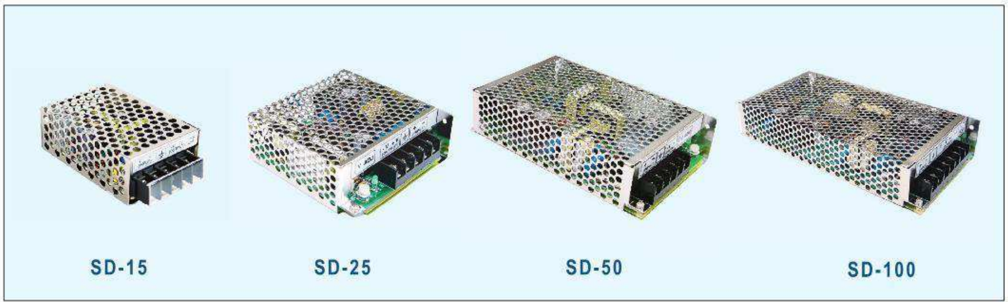
Model No.	Vin (VDC)	Vout (VDC)	Iout (A)	R&N (mVp-p)	Effi. (%)
DDR-120A-12	9~18	12	8.3	50	88.5
DDR-120B-12	16.8~33.6	12	10	50	89.0
DDR-120C-12	33.6~67.2	12	10	50	89.5
DDR-120D-12	67.2~154	12	10	50	89.5
DDR-120A-24	9~18	24	4.2	50	88.5
DDR-120B-24	16.8~33.6	24	5	50	89.5
DDR-120C-24	33.6~67.2	24	5	50	91.0
DDR-120D-24	67.2~154	24	5	50	91.0
DDR-120A-48	9~18	48	2.1	50	88.5
DDR-120B-48	16.8~33.2	48	2.5	50	91.0
DDR-120C-48	33.6~67.2	48	2.5	50	92.0
DDR-120D-48	67.2~154	48	2.5	50	91.5

240W DDR-240

Model No.	Vin (VDC)	Vout (VDC)	Iout (A)	R&N (mVp-p)	Effi. (%)
DDR-240B-24	16.8~33.6	24	10	120	90
DDR-240C-24	33.6~67.2	24	10	120	91
DDR-240D-24	67.2~154	24	10	120	92
DDR-240B-48	16.8~33.6	48	5	200	91
DDR-240C-48	33.6~67.2	48	5	200	92
DDR-240D-48	67.2~154	48	5	200	93

DC/DC Converter 15~100W Single Output Enclosed Type

MEAN WELL



Features

- 2:1 wide input range
- I/O isolation:
  1500VAC (2000VAC for 15W)
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- 2 years warranty

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

Model No.	SD-15	SD-25	SD-50	SD-100
DC input range	A: 9.2~18V(9.5~15.6 for SD-100A only), B: 19~36V(18~36V for SD-15), C: 36~72V; D: 72~144V (SD-100 only)			
DC adjustment range	5V: 4.5~5.5V, 12V: 11~16V, 24V: 23~30V (5V: 4.75~5.5V, 12V: 10.8~13.2V, 24V: 21.6~26.4V for SD-15)			
Line and load regulation (max.)	±0.5% (±0.2%~±0.5% for SD-100A only)			
Overload protection	105%~160% hiccup mode, auto-recovery	105%~150% hiccup mode, auto-recovery		105%~135% hiccup mode, auto-recovery
Over voltage protection	115%~135% rated output voltage	115%~165% rated output voltage		
Withstand voltage	I/P-O/P: 2kVAC, I/P-FG: 1.5kVAC, 1 minute		I/P-O/P: 1.5kVAC, I/P-FG: 2kVAC, 1 minute	
Working temperature	-10~+60°C (refer to output derating curve)			
Safety standards	Meet LVD, EAC TP TC 004; EN62368-1 CB approved by TUV (SD-100 D type only); design refer to IEC62368-1(SD-100 A type only)			
EMC standards	EN55032 class B, EN61000-4-2,3,4,6,8, EAC TP TC 020			
Case No.	931A	905	901	902
Dimension (LxWxH) (mm)	78x 51x 28	99x 97x 36	159x 97x 38	199x 98x 38

SD-15

Model No.	Vin (VDC)	Vout (VDC)	Iout (A)	R&N (mVp-p)	Effi. (%)
SD-15A-5	9.2~18	5	3	100	68
SD-15A-12	9.2~18	12	1.25	120	72
SD-15A-24	9.2~18	24	0.625	150	70
SD-15B-5	18~36	5	3	100	76
SD-15B-12	18~36	12	1.25	120	76
SD-15B-24	18~36	24	0.625	150	77
SD-15C-5	36~72	5	3	100	75
SD-15C-12	36~72	12	1.25	120	79
SD-15C-24	36~72	24	0.625	150	78

SD-25

Model No.	Vin (VDC)	Vout (VDC)	Iout (A)	R&N (mVp-p)	Effi. (%)
SD-25A-5	9.2~18	5	5	100	71
SD-25A-12	9.2~18	12	2.1	120	72
SD-25A-24	9.2~18	24	1.1	150	75
SD-25B-5	19~36	5	5	100	72
SD-25B-12	19~36	12	2.1	120	75
SD-25B-24	19~36	24	1.1	150	78
SD-25C-5	36~72	5	5	100	74
SD-25C-12	36~72	12	2.1	120	78
SD-25C-24	36~72	24	1.1	150	81

SD-50

Model No.	Vin (VDC)	Vout (VDC)	Iout (A)	R&N (mVp-p)	Effi. (%)
SD-50A-5	9.2~18	5	10	100	70
SD-50A-12	9.2~18	12	4.2	120	72
SD-50A-24	9.2~18	24	2.1	150	74
SD-50B-5	19~36	5	10	100	73
SD-50B-12	19~36	12	4.2	120	75
SD-50B-24	19~36	24	2.1	150	80
SD-50C-5	36~72	5	10	100	76
SD-50C-12	36~72	12	4.2	120	78
SD-50C-24	36~72	24	2.1	150	83

SD-100

CB (D type)

Model No.	Vin (VDC)	Vout (VDC)	Iout (A)	R&N (mVp-p)	Effi. (%)
NEW SD-100A-5	9.5~15.6	5	18	100	78
NEW SD-100A-12	9.5~15.6	12	8.5	120	82
NEW SD-100A-24	9.5~15.6	24	4.2	150	84
SD-100B-5	19~36	5	20	100	74
SD-100B-12	19~36	12	8.5	120	75
SD-100B-24	19~36	24	4.2	150	78
SD-100C-5	36~72	5	20	100	75
SD-100C-12	36~72	12	8.5	120	77
SD-100C-24	36~72	24	4.2	150	81
SD-100D-5	72~144	5	20	100	76
SD-100D-12	72~144	12	8.5	120	80
SD-100D-24	72~144	24	4.2	150	83

DC/DC Converter 150~1000W Single Output Enclosed Type

MEAN WELL

SD-150 SD-200 SD-350 SD-500 SD-1000

Features

- 2:1 wide input range (4:1 input for SD-500/1000)
- I/O Isolation: 1500VAC, 2000VAC (SD-500/1000)
- Protections: Short circuit / Overload / Over voltage / Over temperature (except for SD-150) / Input polarity (SD-500 only)
- Fanless design , cooling by free air convection (SD-150/200), forced air cooling by built-in DC fan (SD-350/500/1000)
- DC input active surge current limiting (SD-500)
- Output OK signal (SD-500/1000)
- 1U low profile 41mm (SD-1000)
- 12V / 0.25A auxiliary output (SD-500/1000)
- Built-in remote ON/OFF control and remote sense (SD-500/1000)
- 2 years warranty, 3 years warranty (SD-500/1000)

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

Model No.	SD-150	SD-200	SD-350	SD-500	SD-1000
DC input range	B: 19~36V, C: 36~72V, D: 72~144V			L: 19~72V, H: 72~144V	
Vout adjustment range	12V: 11~16V, 24V: 23~30V	5V: 4.5~5.5V, 12V: 11~16V, 24V: 23~30V, 48V: 43~53V		12V: 11~15V, 24V: 23~30V, 48V: 46~60V	
Line and load regulation (max.)	±0.5%		±0.2%~±0.5%	±0.5%	
Overload protection	105%~135% hiccup mode, auto-recovery	105%~135% shut off, re-power on to recover		105%~125% constant current limiting, shut off after 5 sec., re-power on to recover	
Over voltage protection	130%~165%	110%~167% rated output voltage		130%~160% rated output voltage	
Withstand voltage	I/P-O/P: 1.5kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC			I/P-O/P: 2kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC	
Working temperature	-10~+60°C	-20~+60°C			
Safety standards	Meet LVD, EAC TP TC 004, EN62368-1 CB approved by TUV (D type only)			IEC62368-1 CB approved by TUV, EAC TP TC 004	
EMC standards	EN55032 class B, EN61000-4-2,3,4,6,8, EAC TP TC 020				
Case No.	906	912H	912B	912A	952B
Dimension (LxWxH) (mm)	199x 110x 50	215x 115x 50			295x 127x 41

SD-150

EAC CB CE (D type)

Model No.	Vin (VDC)	Vout (VDC)	Iout (A)	R&N (mVp-p)	Effi. (%)
SD-150B-12	19~36	12	12.5	120	75
SD-150B-24	19~36	24	6.3	150	77
SD-150C-12	36~72	12	12.5	120	77
SD-150C-24	36~72	24	6.3	150	80
SD-150D-12	72~144	12	12.5	120	79
SD-150D-24	72~144	24	6.3	150	82

SD-200

c UL us (SD-200C-24) EAC CB (D type) CE

Model No.	Vin (VDC)	Vout (VDC)	Iout (A)	R&N (mVp-p)	Effi. (%)
SD-200B-5	19~36	5	34	100	79
SD-200B-12	19~36	12	16.7	120	82
SD-200B-24	19~36	24	8.4	150	85
SD-200B-48	19~36	48	4.2	200	86
SD-200C-5	36~72	5	40	100	81
SD-200C-12	36~72	12	16.7	120	84
SD-200C-24	36~72	24	8.4	150	86
SD-200C-48	36~72	48	4.2	200	86
SD-200D-5	72~144	5	40	100	82
SD-200D-12	72~144	12	16.7	120	82
SD-200D-24	72~144	24	8.4	150	84
SD-200D-48	72~144	48	4.2	200	90

SD-350

EAC CB CE (D type)

Model No.	Vin (VDC)	Vout (VDC)	Iout (A)	R&N (mVp-p)	Effi. (%)
SD-350B-5	19~36	5	57	100	74
SD-350B-12	19~36	12	27.5	120	80
SD-350B-24	19~36	24	14.6	150	80
SD-350B-48	19~36	48	7.3	200	84
SD-350C-5	36~72	5	60	100	76
SD-350C-12	36~72	12	27.5	120	81
SD-350C-24	36~72	24	14.6	150	81
SD-350C-48	36~72	48	7.3	200	82
SD-350D-5	72~144	5	60	100	78
SD-350D-12	72~144	12	29.2	120	83
SD-350D-24	72~144	24	14.6	150	87
SD-350D-48	72~144	48	7.3	200	89

SD-500

EAC CB CE

Model No.	Vin (VDC)	Vout (VDC)	Iout (A)	R&N (mVp-p)	Effi. (%)
SD-500L-12	19~72	12	40	150	86
SD-500L-24	19~72	24	21	150	88
SD-500L-48	19~72	48	10.5	150	89
SD-500H-12	72~144	12	40	150	87
SD-500H-24	72~144	24	21	150	89
SD-500H-48	72~144	48	10.5	150	90

SD-1000

EAC CB CE

Model No.	Vin (VDC)	Vout (VDC)	Iout (A)	R&N (mVp-p)	Effi. (%)
SD-1000L-12	19~72	12	60	150	84
SD-1000L-24	19~72	24	40	150	88
SD-1000L-48	19~72	48	21	150	90
SD-1000H-12	72~144	12	60	150	85
SD-1000H-24	72~144	24	40	150	89
SD-1000H-48	72~144	48	21	150	92

DC/DC Converter 30~150W Railway Enclosed Type

MEAN WELL

RSD-30 RSD-60 RSD-100 RSD-150

Features

- Compliance to EN50155 and EN45545-2 railway standard
- 4:1 wide input range (RSD-30/60)
  2:1 wide input range (RSD-100/150)
- 4000VDC I/O isolation
- Protections: Short circuit / Overload /
  Over voltage / Input reverse polarity
- Cooling by free air convection
- Built-in constant current limiting circuit
- Ultra compact and 1U low profile
- All using 105°C long life electrolytic capacitors
- Half encapsulated (5G vibration)
- 3 years warranty

Railway Industrial

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

Model No.		RSD-30	RSD-60	RSD-100	RSD-150
DC input range		G: 9~36V, L: 18~72V, H: 40~160V		B: 14.4~33.6V, C:28.8~67.2V, D: 57.6~154V	
Line regulation (1 sec.)		±0.2%~±0.5% by models		±0.5%	
Load regulation (max.)		±0.2%~±0.5% by models		±1%	
Overload protection		105%~135% constant current limiting, recovers automatically after fault condition is removed			
Over voltage protection		115%~135% Shut down O/P voltage, re-power on to recover			115%~140%
Withstand voltage		I/P-O/P: 4kVDC, I/P-FG: 2.5kVDC, O/P-FG: 2.5kVDC, 1 minute			
Isolation resistance		100MΩ@500VDC			
Working temperature (min.)		-40~+70°C (refer to output derating curve)			
Safety standards	Industrial	Meet IEC62368-1(LVD), EAC TP TC 004			
	Railway	EN50155/IEC60571; EN45545-2			
EMC standards		EN55032 class B (class A for conduction), EN61000-3,-2,3, EN61000-4-2,3,4,5,6, EN50121-3-2		EN55032 class B (class A for conduction), EN61000-4-2,3,4,5,6,8, EAC TP TC 020, EN50121-3-2	
Dimension (LxWxH)(mm)		113x 60x 25	128x 60x 25	161x 68x 36	189x77x36

30W — NEW RSD-30

Model No.	Vin (VDC) (continuous)	Vout (VDC)	Iout (A)	R&N (mVp-p)	Effi. (%)
RSD-30G-3.3	9~36	3.3	6	70	84
RSD-30G-5	9~36	5	6	70	85
RSD-30G-12	9~36	12	2.5	60	86.5
RSD-30G-24	9~36	24	1.25	50	89
RSD-30L-3.3	18~72	3.3	6	70	84
RSD-30L-5	18~72	5	6	70	86
RSD-30L-12	18~72	12	2.5	60	90
RSD-30L-24	18~72	24	1.25	50	91
RSD-30H-3.3	40~160	3.3	6	70	87
RSD-30H-5	40~160	5	6	70	89
RSD-30H-12	40~160	12	2.5	60	89
RSD-30H-24	40~160	24	1.25	50	89

60W — NEW RSD-60

Model No.	Vin (VDC) (continuous)	Vout (VDC)	Iout (A)	R&N (mVp-p)	Effi. (%)
RSD-60G-3.3	9~36	3.3	12	60	86.5
RSD-60G-5	9~36	5	12	100	88
RSD-60G-12	9~36	12	5	50	92
RSD-60G-24	9~36	24	2.5	50	90
RSD-60L-3.3	18~72	3.3	12	60	88.5
RSD-60L-5	18~72	5	12	60	89
RSD-60L-12	18~72	12	5	50	93
RSD-60L-24	18~72	24	2.5	50	91.5
RSD-60H-3.3	40~160	3.3	12	80	87.5
RSD-60H-5	40~160	5	12	60	89
RSD-60H-12	40~160	12	5	50	92.5
RSD-60H-24	40~160	24	2.5	50	91.5

100W — RSD-100

Model No.	Vin (VDC) (1 sec / continuous)	Vout (VDC)	Iout (A)	R&N (mVp-p)	Effi. (%)
RSD-100B-5	14.4~33.6 / 16.8~31.2	5	20	100	88
RSD-100B-12	14.4~33.6 / 16.8~31.2	12	8.4	120	89
RSD-100B-24	14.4~33.6 / 16.8~31.2	24	4.2	150	89
RSD-100C-5	28.8~67.2 / 33.6~62.4	5	20	100	89
RSD-100C-12	28.8~67.2 / 33.6~62.4	12	8.4	120	91
RSD-100C-24	28.8~67.2 / 33.6~62.4	24	4.2	150	91
RSD-100D-5	57.6~154 / 67.2~143	5	20	100	89.5
RSD-100D-12	57.6~154 / 67.2~143	12	8.4	120	91
RSD-100D-24	57.6~154 / 67.2~143	24	4.2	150	90

150W — RSD-150

Model No.	Vin (VDC) (1 sec / continuous)	Vout (VDC)	Iout (A)	R&N (mVp-p)	Effi. (%)
RSD-150B-5	14.4~33.6 / 16.8~31.2	5	30	100	89
RSD-150B-12	14.4~33.6 / 16.8~31.2	12	12.5	120	90
RSD-150B-24	14.4~33.6 / 16.8~31.2	24	6.3	150	90
RSD-150C-5	28.8~67.2 / 33.6~62.4	5	30	100	90
RSD-150C-12	28.8~67.2 / 33.6~62.4	12	12.5	120	92
RSD-150C-24	28.8~67.2 / 33.6~62.4	24	6.3	150	91
RSD-150D-5	57.6~154 / 67.2~143	5	30	100	90
RSD-150D-12	57.6~154 / 67.2~143	12	12.5	120	92
RSD-150D-24	57.6~154 / 67.2~143	24	6.3	150	91

DC/DC Converter 200~300W Railway Enclosed Type

MEAN WELL

RSD-200

RSD-300

Features

- Compliance to EN50155 and EN45545-2 railway standard
- 2:1 wide input range
- 4000VDC I/O isolation
- Protections:
  Short circuit / Overload / Over voltage /
  Input reverse polarity / Over temperature
- Cooling by free air convection
- Built-in constant current limiting circuit
- 1U low profile
- All using 105°C long life electrolytic capacitors
- Half encapsulated (5G vibration)
- 3 years warranty

Railway Industrial

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

Model No.		RSD-200	RSD-300
DC input range		B: 14.4~33.6V, C: 28.8~67.2V, D: 57.6~154V, E: 21.6~50.4V, F: 43.2~100.8V	
Line regulation (1 sec.)		±0.5%	
Load regulation (max.)		±1%	
Overload protection		105%~135% constant current limiting, recovers automatically after fault condition is removed	
Over voltage protection		115%~135% Shut down O/P voltage, re-power on to recover	115%~140%
Withstand voltage		I/P-O/P: 4kVDC, I/P-FG: 2.5kVDC, O/P-FG: 2.5kVDC, 1 minute	
Isolation resistance		100MΩ@500VDC	
Working temperature(min.)		-40~+70°C (refer to output derating curve)	
Safety standards	Industrial	Meet IEC62368-1(LVD), EAC TP TC 004	
	Railway	EN50155 / IEC60571; EN45545-2	
EMC standards		EN55032 class B, EN50121-3-2, EN61000-4-2,3,4,5,6,8, EN50121-3-2	
Dimension (LxWxH)(mm)		191x 86x 40	216x 96.5x 40

200W RSD-200

Model No.	Vin (VDC) (1 sec / continuous)	Vout (VDC)	Iout (A)	R&N (mVp-p)	Effi. (%)
RSD-200B-12	14.4~33.6 / 16.8~31.2	12	16.7	120	89
RSD-200B-24	14.4~33.6 / 16.8~31.2	24	8.4	150	89
RSD-200B-48	14.4~33.6 / 16.8~31.2	48	4.2	180	89
RSD-200C-12	28.8~67.2 / 33.6~62.4	12	16.7	120	91
RSD-200C-24	28.8~67.2 / 33.6~62.4	24	8.4	150	91
RSD-200C-48	28.8~67.2 / 33.6~62.4	48	4.2	180	91
RSD-200D-12	57.6~154 / 67.2~143	12	16.7	120	91
RSD-200D-24	57.6~154 / 67.2~143	24	8.4	150	91
RSD-200D-48	57.6~154 / 67.2~143	48	4.2	180	91

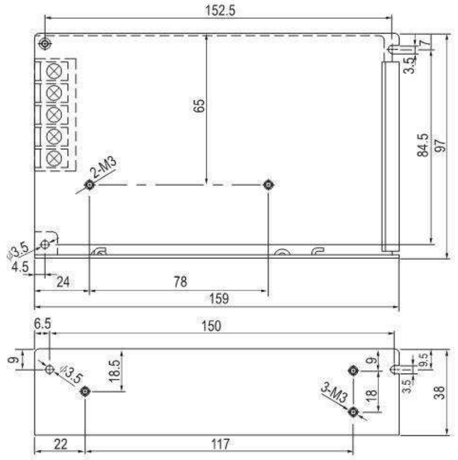
300W RSD-300

Model No.	Vin (VDC) (1 sec / continuous)	Vout (VDC)	Iout (A)	R&N (mVp-p)	Effi. (%)
RSD-300B-5	14.4~33.6 / 16.8~31.2	5	42	100	89
RSD-300B-12	14.4~33.6 / 16.8~31.2	12	22.5	120	89.5
RSD-300B-24	14.4~33.6 / 16.8~31.2	24	11.3	150	90
RSD-300B-48	14.4~33.6 / 16.8~31.2	48	5.7	180	91.5
RSD-300C-5	28.8~67.2 / 33.6~62.4	5	42	100	90.5
RSD-300C-12	28.8~67.2 / 33.6~62.4	12	25	120	91
RSD-300C-24	28.8~67.2 / 33.6~62.4	24	12.5	150	91.5
RSD-300C-48	28.8~67.2 / 33.6~62.4	48	6.3	180	92
RSD-300D-5	57.6~154 / 67.2~143	5	42	100	90
RSD-300D-12	57.6~154 / 67.2~143	12	25	120	91.5
RSD-300D-24	57.6~154 / 67.2~143	24	12.5	150	91.5
RSD-300D-48	57.6~154 / 67.2~143	48	6.3	180	91.5
RSD-300E-5	21.6~50.4 / 25.2~46.8	5	42	100	88
RSD-300E-12	21.6~50.4 / 25.2~46.8	12	25	120	90
RSD-300E-24	21.6~50.4 / 25.2~46.8	24	12.5	150	91
RSD-300E-48	21.6~50.4 / 25.2~46.8	48	6.3	180	91
RSD-300F-5	43.2~100.8 / 50.4~93.6	5	42	100	89
RSD-300F-12	43.2~100.8 / 50.4~93.6	12	25	120	91
RSD-300F-24	43.2~100.8 / 50.4~93.6	24	12.5	150	91
RSD-300F-48	43.2~100.8 / 50.4~93.6	48	6.3	180	91.5

Case Drawing

901

Unit:mm



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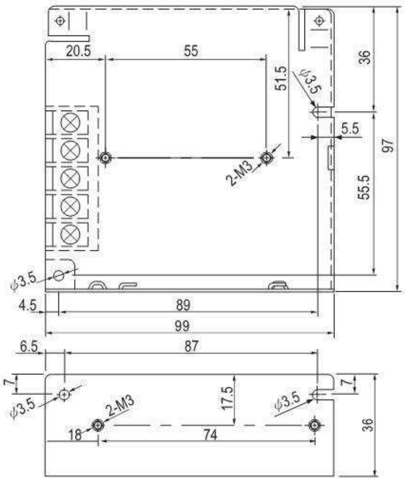
Unit:mm



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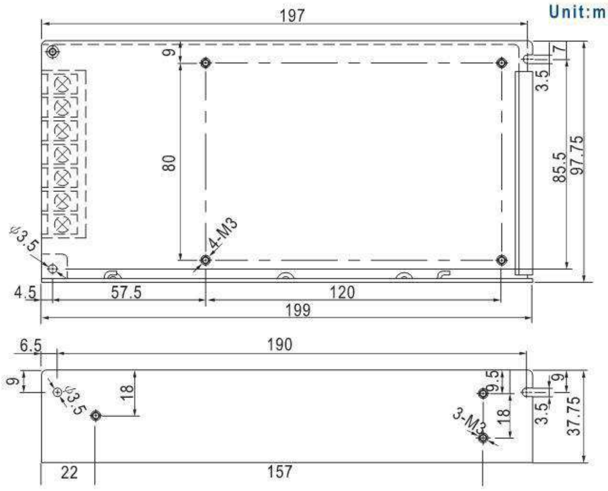
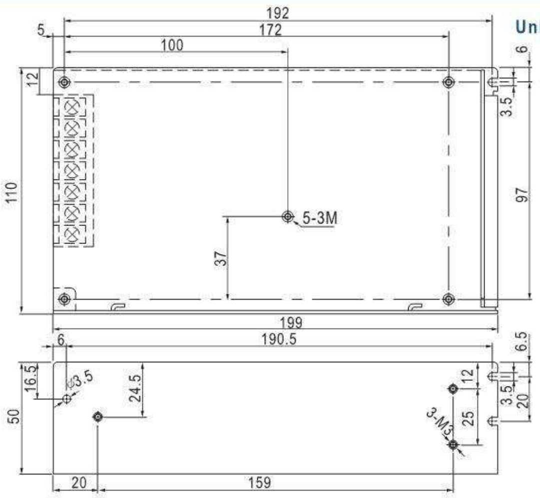


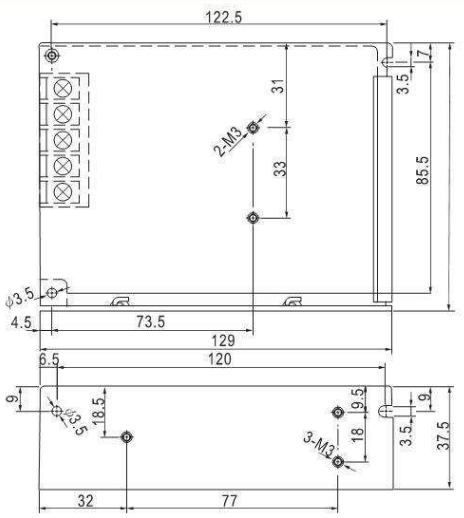
906

Unit:mm



903

Unit:mm



907

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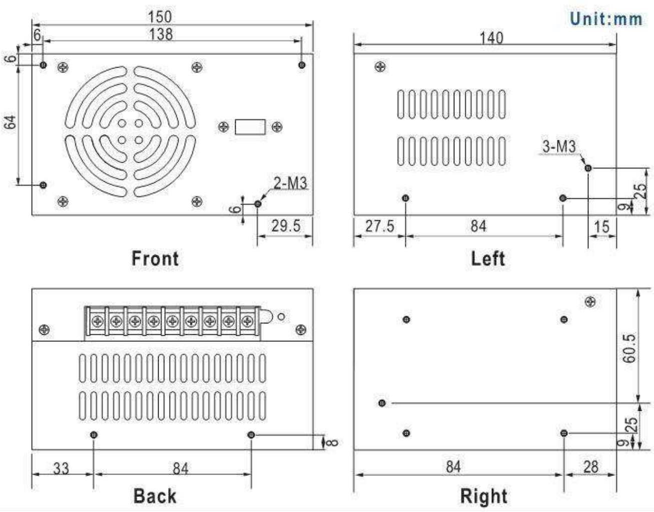
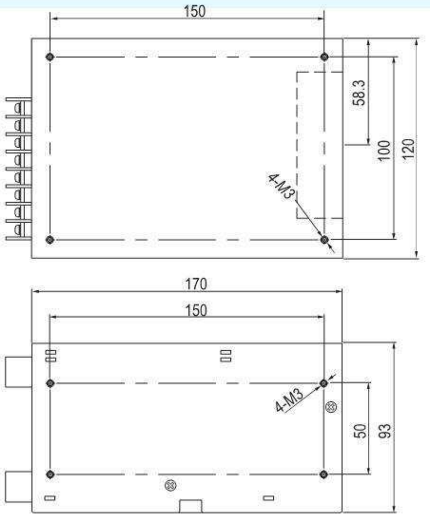


Case Drawing

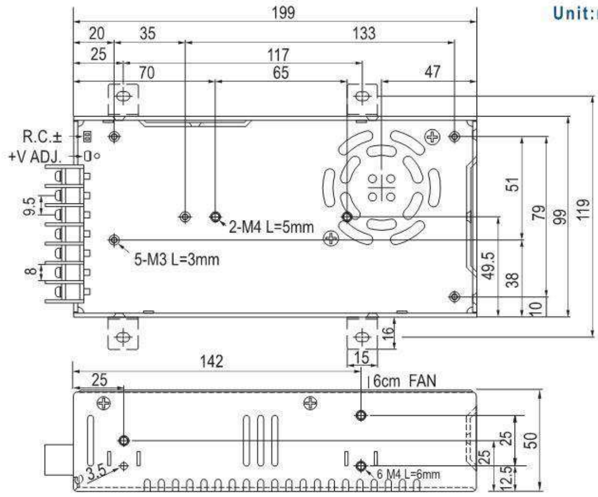
■910A

Unit:mm



■916A 916B

Unit:mm



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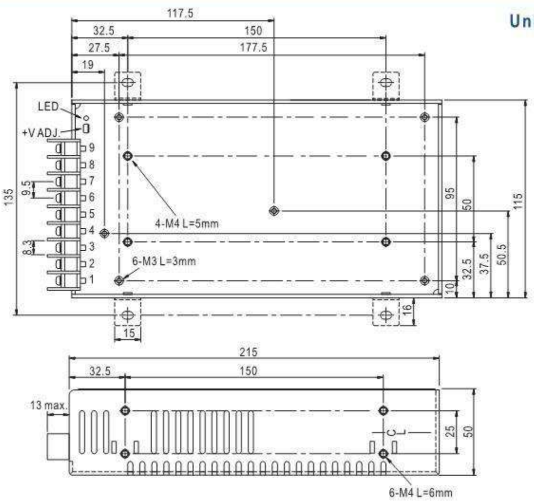

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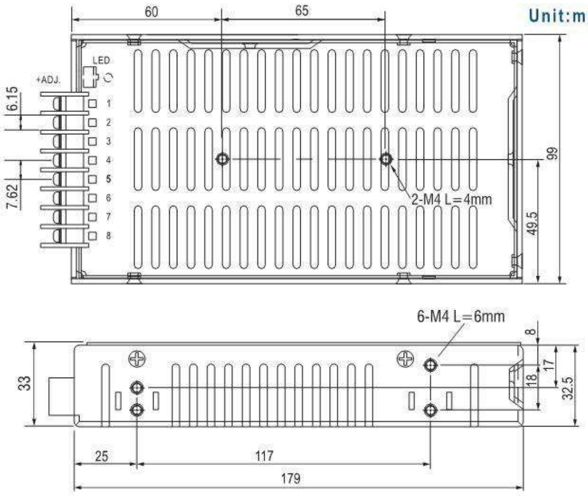

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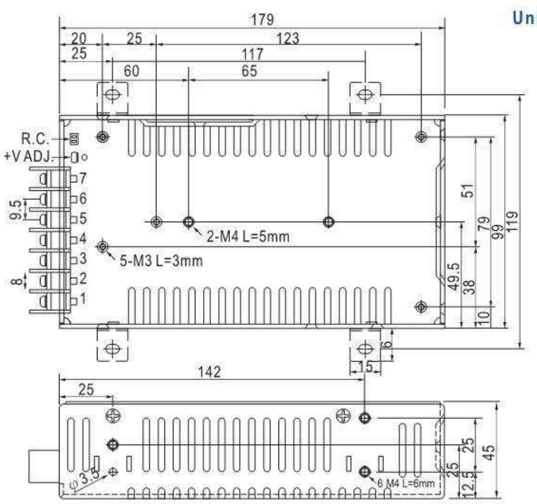

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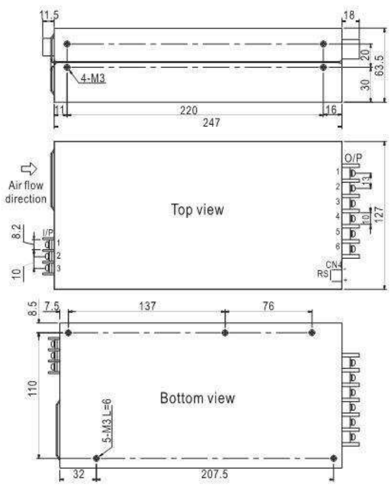
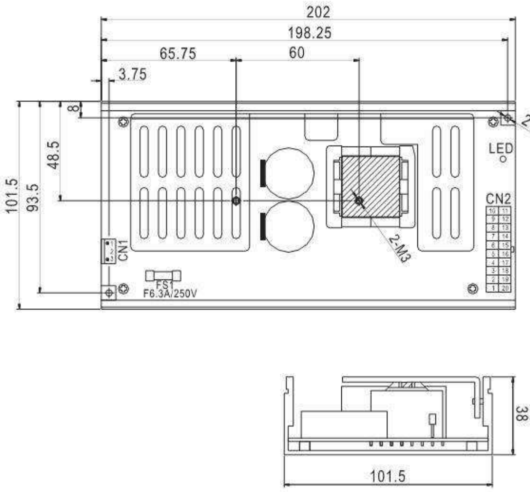


Case Drawing

928A

Unit:mm



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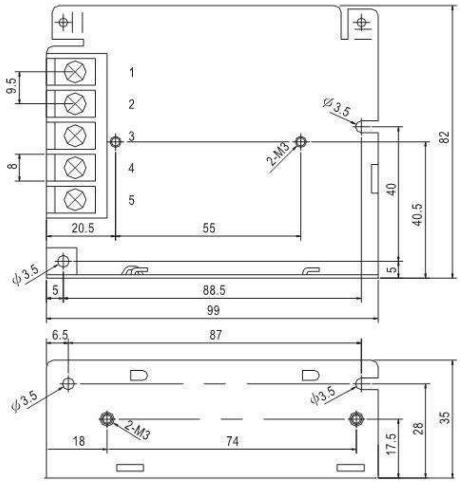

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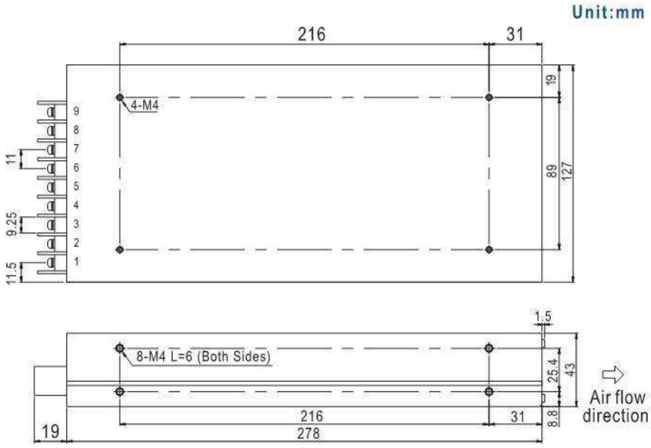
Unit:mm



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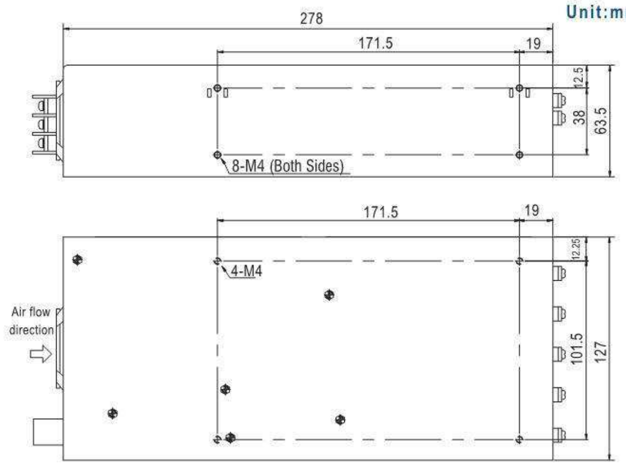
Unit:mm



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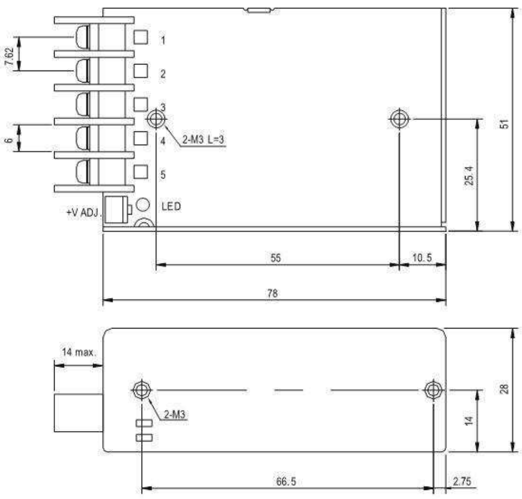

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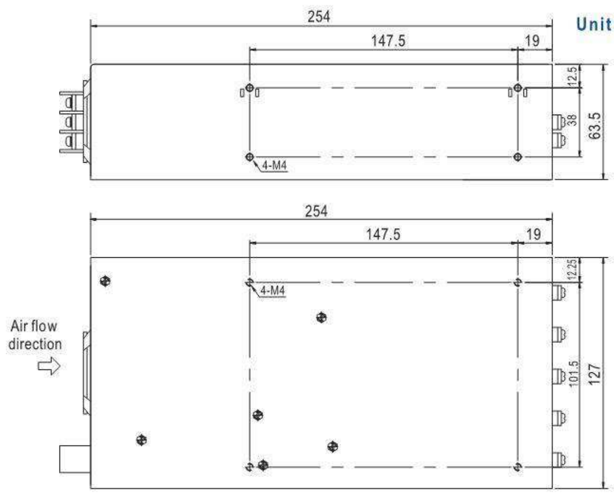
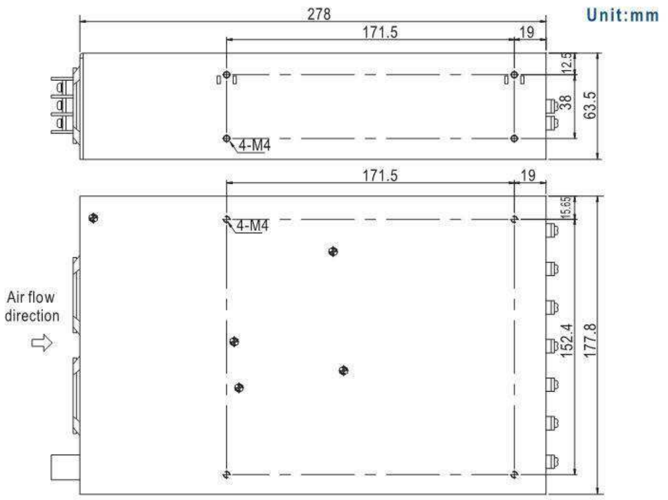


Case Drawing

940A

Unit:mm



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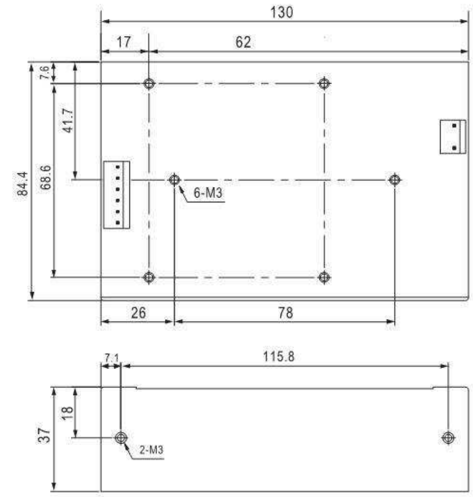
Unit:mm



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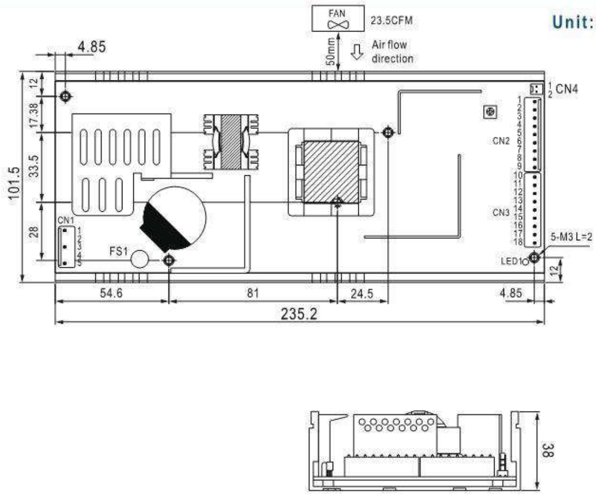
Unit:mm



952B

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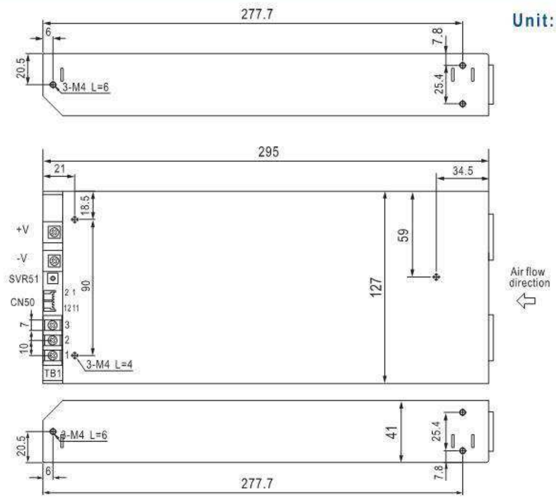

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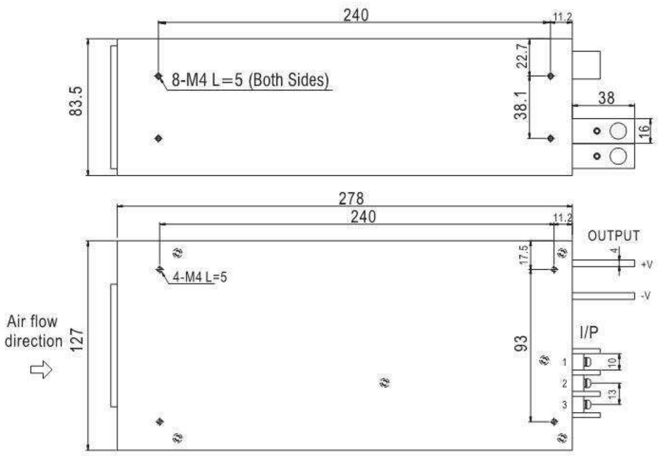

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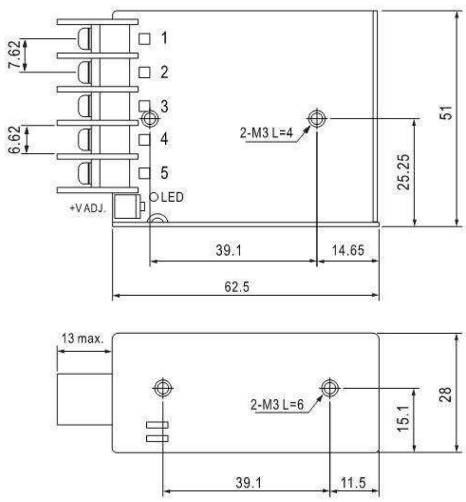
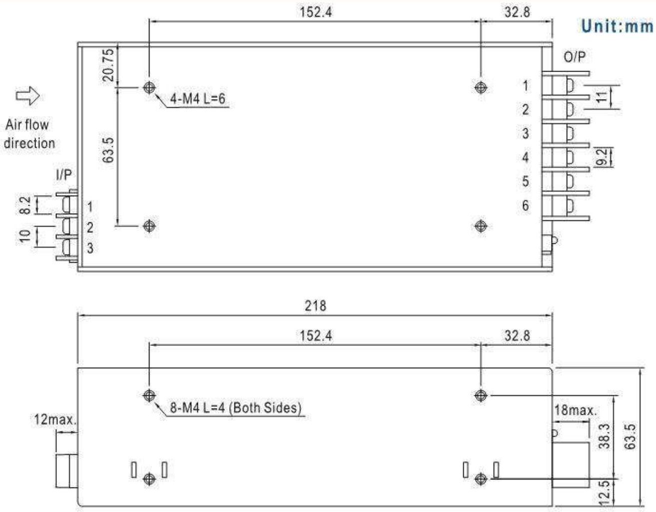


Case Drawing

MEAN WELL

■977A

Unit:mm



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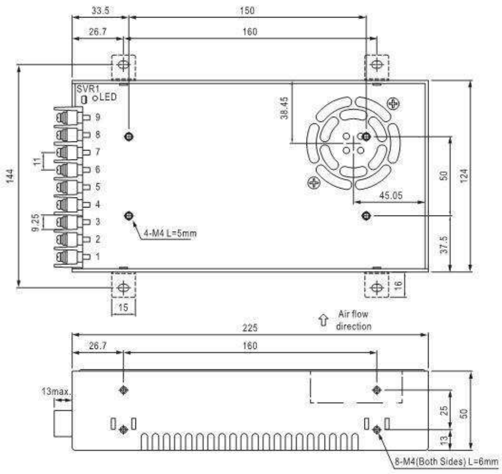
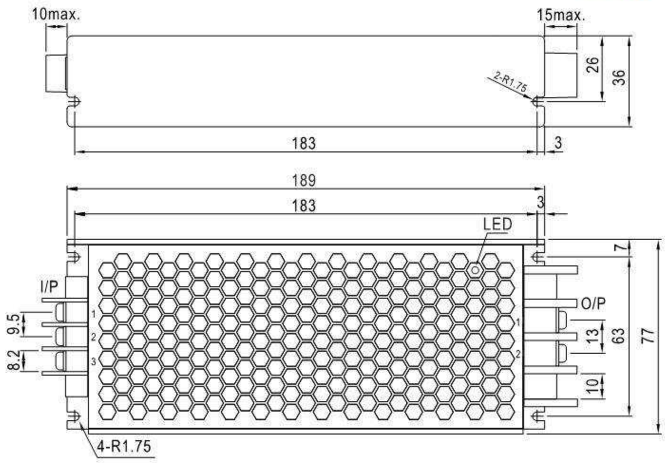


■978A

Unit:mm



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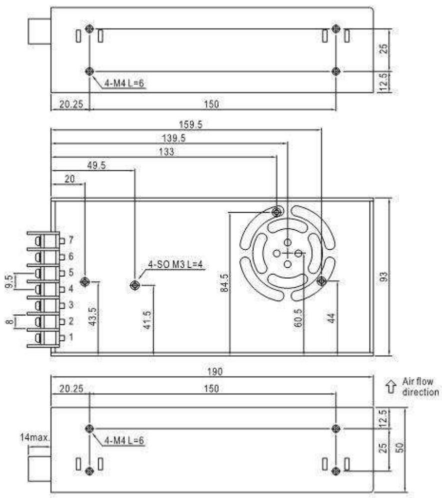

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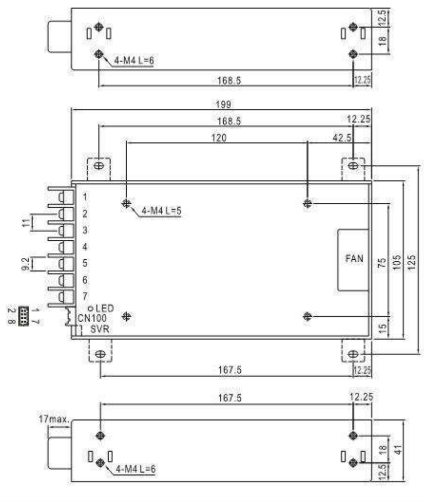

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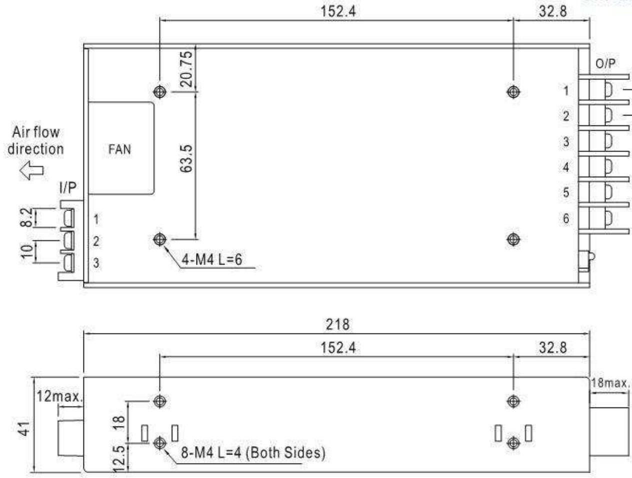
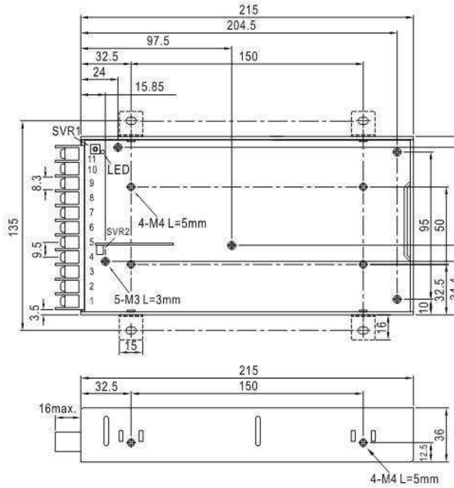


Case Drawing

206A

Unit:mm



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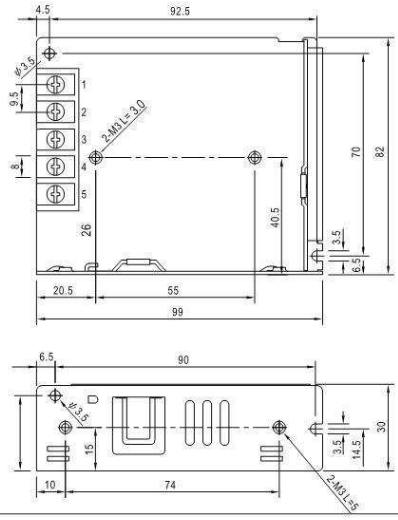

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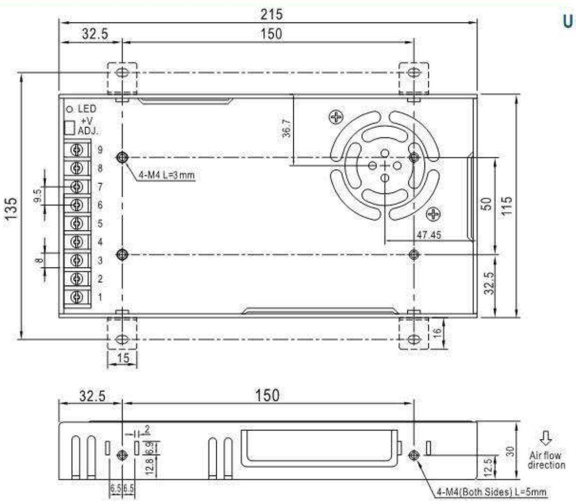

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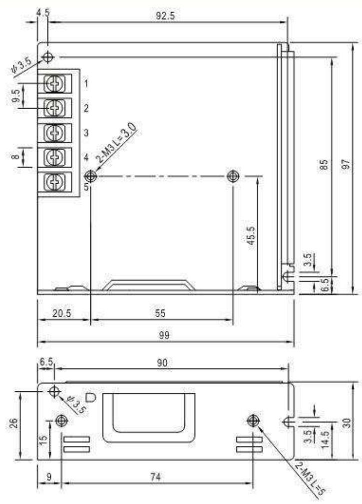

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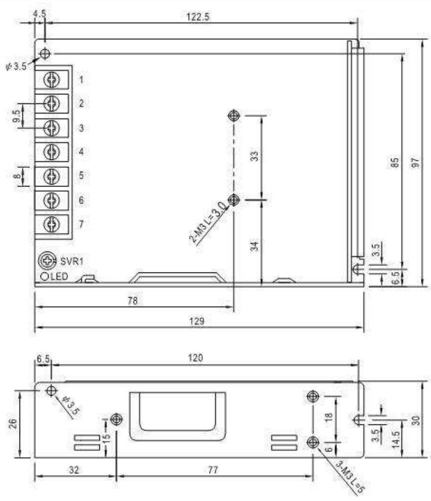

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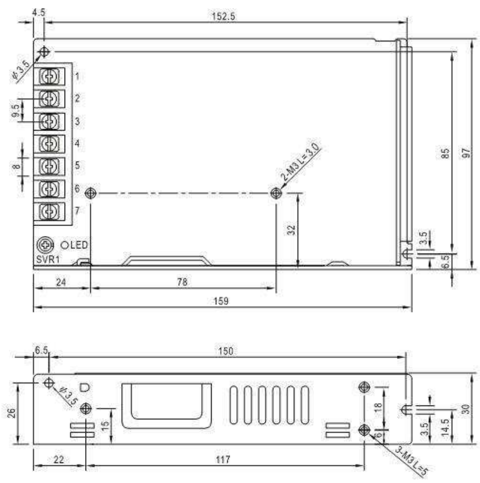
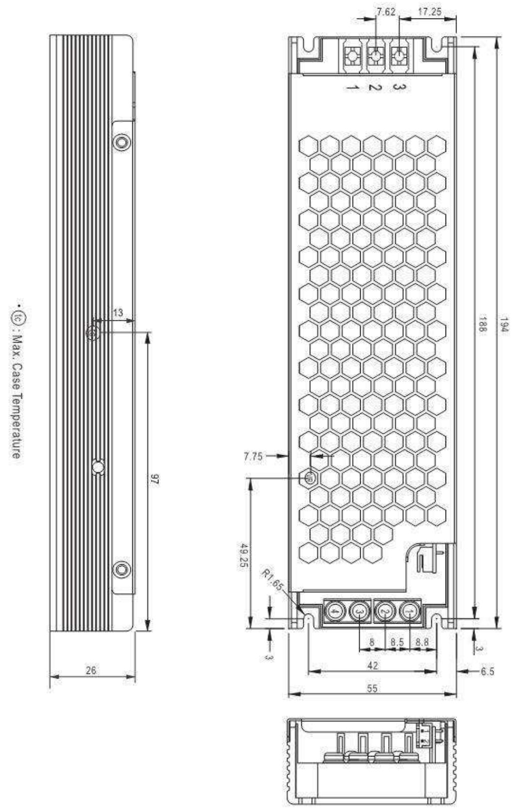


Case Drawing

249B

Unit:mm



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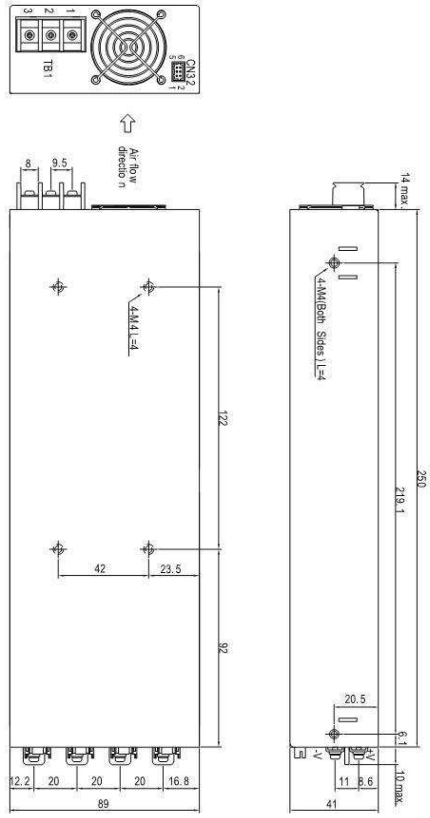

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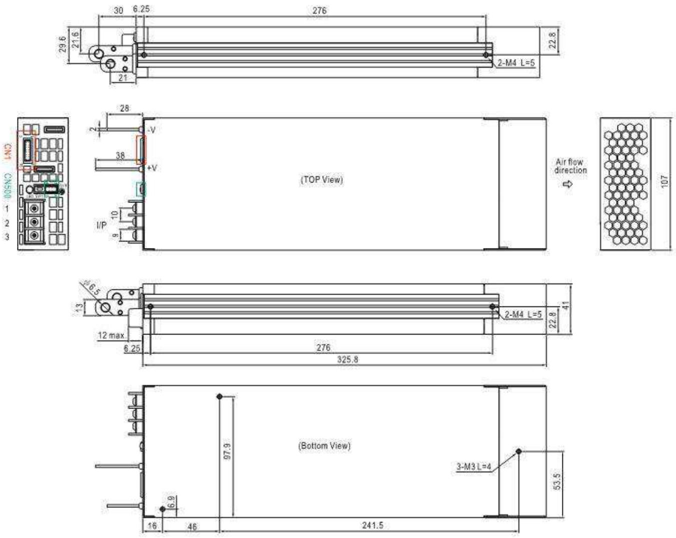

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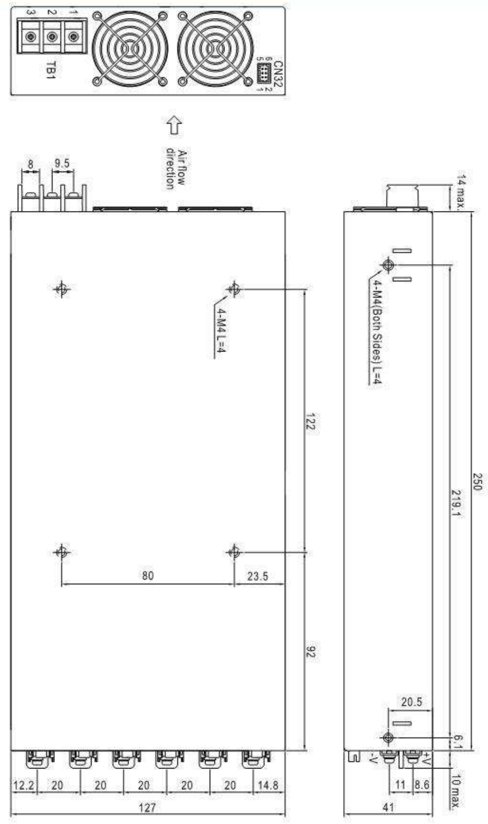
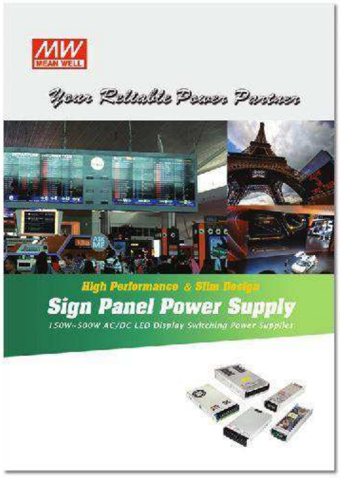
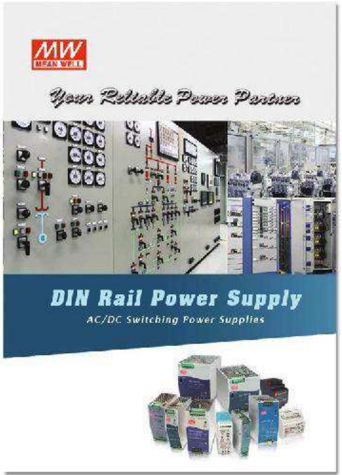


Other Power Catalogs

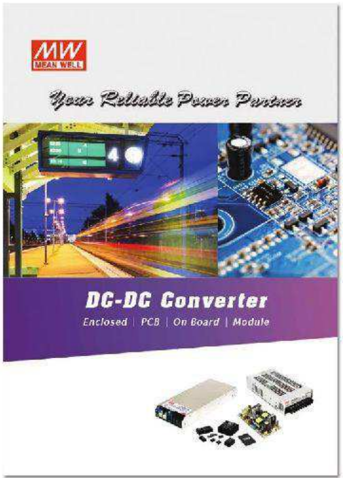
■ LED Display



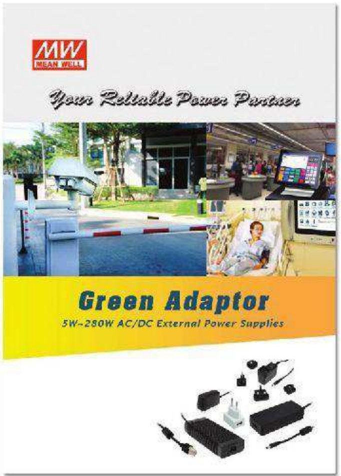
■ DIN Rail



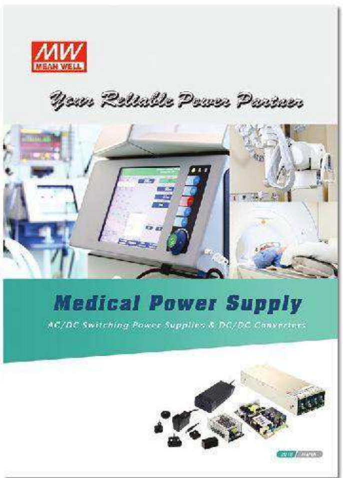
■ DC/DC Converter



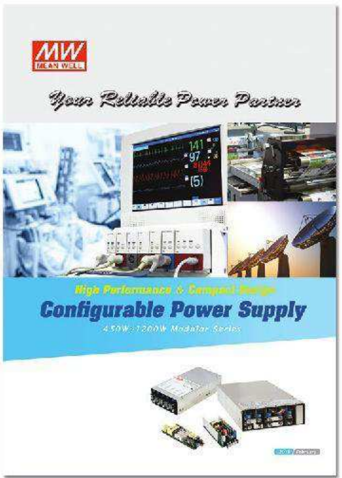
■ Adaptor



■ Medical Power Supply

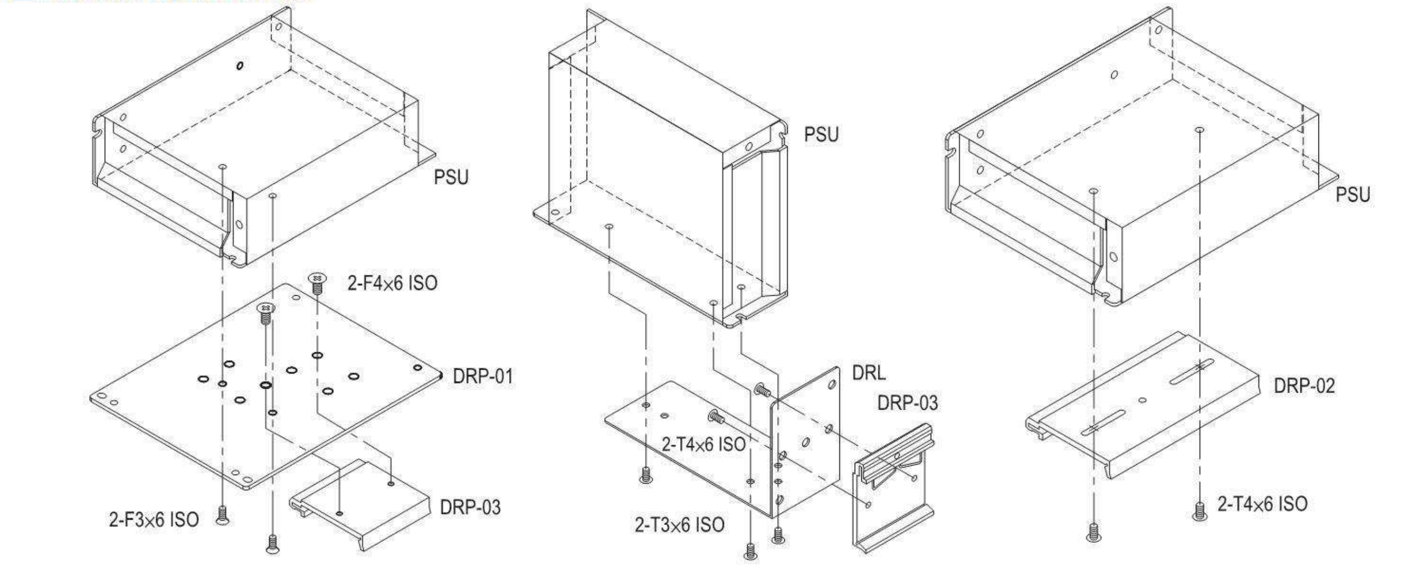


■ Configurable Power Supply

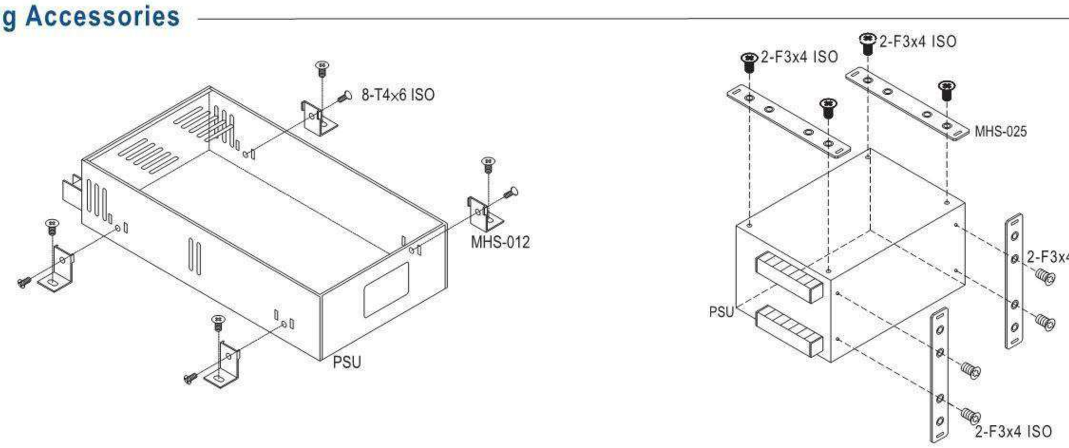


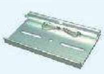
Accessories

DIN Rail Accessories



Mounting Accessories



ITEM	Order No.	Case	Model
	DRL-01	238, 239, 240 903 905 931 932 971	LRS-35/50/75/100 S-40, D-30, T-30, ... S-15, S-25, ... RS-25, NES-15 RS-35, NES-25 RS-15
	DRL-02	241 901 902 906 915 916 920	LRS-150/150F 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-03A	980 987	SP-240, HRP(G)-300
	DRP-01	238, 239, 241 901, 902 903, 906 931, 932, 946	LRS-35/50/100/150/150F All models
	DRP-01A	203 205 978 999	RSD-100 / 150 / 200 / 300
	DRP-02	240 905 / 915 916 / 920 928	LRS-75 S-15, S-25, ... / SP-100, ... SP-150, SP-200, .. / SP-75, ... USP-225, ...
	DRP-03	DRP-01 DRL-01~03	All models
	DRP-04	203 205 978 999	RSD-100 / 150 / 200 / 300

ITEM	Order No.	Case	Model
	MHS012	206, 207 215A 912, 915 916, 935 939, 940 977, 980 982, 986 987, 995	HDP-190, RSP-200/320,LRS-200/350 RSP-150 S-201, S-320, S-350, SP-100, SP-150, SP-200,SP-320, SE-450/1000, MP450/650/1000, SP-240, HRP-300/450/600, RSP-2400/3000
	MHS013	919 926	PSP-500, SP-750, SE-600
	MHS014	212 952	RSP-750 RSP-1000, SD-1000
	MHS025	910	SP-500, PSP-600.....
	MHS026	943	RSP-1500
	MHS027	971 931	RS-15 RS-25
 TBC is the cover for terminal block	TBC-05	901 903 905 932 220 239A 240A	SD-50, S-60 S-40, NES-50, RS-75 S-25, SD-25, NES-35, RS-50 NES-25, RS-35 RSP-75 LRS-35/50 LRS-75
	TBC-07	901 902 903 905 906 215A 227A 238A 241A	D/ID-60, NED/T-75, RD-85, NES-100, RS-100, T-60 S-100F, RD-125, NES-150, RS-150, SD-100, NED/T-50, RD/RID-65, T-40 NED/T-35,RD-50 S-150, SC-150, SD-150 RSP-150 RSP-100 LRS-100 LRS-150, LRS-150F
	TBC-08	901 906	AD-155, ADD/ADS-155 D/T/Q-120
	TBC-09	207	RSP-200/320, LRS-200/350

General Information

MEAN WELL

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 otherwise 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 fee (depends on the condition of the product) will be charged.
- If customers do the repair by themselves, MEAN WELL can provide reasonable quantity of free components for repair purpose.
- Apart from the external type power supply, the power supply is in general one component of the final system; particularly, the compatibility between the power supply and the system is closely associated. Should you have any difficulty in normally operating the power supplies, please contact our sales representatives and figure out the root cause. If the problem results from the power supply, the warranty right will be applied; if any issues arise from inappropriate installation or incompatibility between the power supply and the system, MEAN WELL will reserve the right to fulfill the warranty .

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.

Taiwan

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