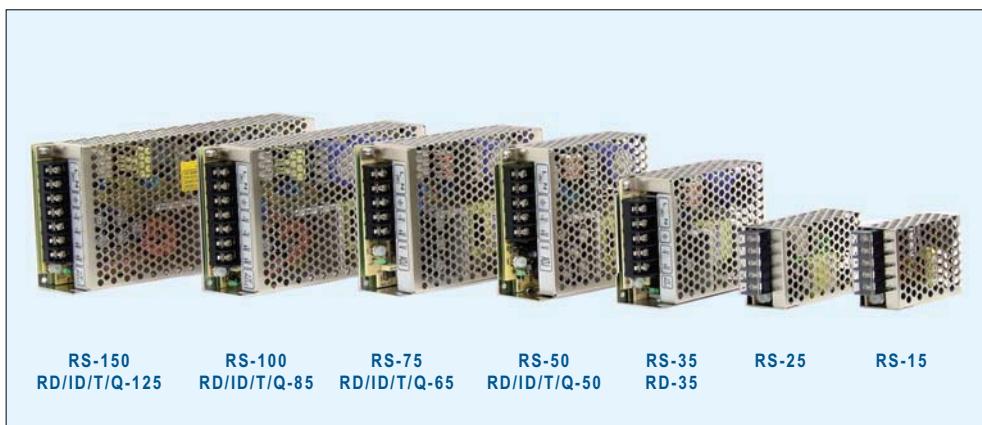


Enclosed-G3 Series

High Reliability Miniature



■ Features

- No load power consumption <0.5W (RS-15~75)
- All using 105°C long life electrolytic capacitors
- Protections: Short circuit / Overload / Over voltage
- Meet EMS EN50082-2/EN61000-6-2 heavy industry level (35~150W)
- Withstand 300VAC surge input for 5 sec.
- High operating temperature up to 70°C
- Withstand 5G vibration test
- Miniature size, high power density
- High efficiency, long life and high reliability
- 100% full load burn-in test
- Suitable for critical applications
- 3 years warranty

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



Model No.	RS-15	RS-25	RS-35 RD-35	RS-50 RD / ID / T / Q-50	RS-75 RD / ID / T / Q-65	RS-100 RD / ID / T / Q-85	RS-150 RD / ID / T / Q-125
AC input voltage range	85~264VAC, 120~370VDC	88~264VAC, 124~370VDC					115 / 230VAC by switch
AC inrush current (max.)	Cold start, 65A at 230VAC	30A at 230VAC	36A at 230VAC	33A at 230VAC	40A at 230VAC		50A at 230VAC
DC adjustment range							
Overload protection	>105%, hiccup mode	110%~180%	110%~150% hiccup mode, auto-recovery (150% ~190% for RID-125-1205/2405)				
Over voltage protection	115%~135%, Shut off	115%~135% rated output voltage, hiccup mode, auto-recovery					
Withstand voltage	I/P - O/P: 3kVAC, I/P - FG: 1.5kVAC, O/P - FG: 0.5kVAC, 1 minute						
Working temperature	-20°C~+70°C (refer to the derating curve for different models)						
Vibration	10~500Hz, 5G 10min/1 cycle, period for 60 min each along X, Y, Z axes						
Safety standards	UL60950-1, TUV EN60950-1 approved						
EMC standards	EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, ENV50204, EN61000-6-2 (EN50082-2) (35~150W)						
Connection	Terminal block for input and output						
Dimension (LxWxH)(mm)	62.5x 51x 28	78x 51x 28	99x 82x 35	99x 97x 36	129x 98x 38	159x 97x 38	199x 98x 38
Case No.	971A	931A	932A	905B	903	901C	902
Packing	108pcs / 15.0kg	60pcs / 13.0kg	45pcs / 14.0kg	45pcs / 19.5kg	30pcs / 14.2kg	24pcs / 15.4kg	20pcs / 15.4kg

15W — Single Output

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

RS-50-15	15V, 0~3.4A	±1%	120mV	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%

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%

Enclosed-NE Series

15~350W Miniature



Features

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

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



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

15W – Single Output

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

75W – Single Output

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

25W – Single Output

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

100W – Single Output

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

35W – Single Output

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

150W – Single Output

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

50W – Single Output

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

Enclosed-SE Series

210~450W Single Output



SE-450

SE-350

SE-200

Features

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

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

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

SE-200 Series



Model No.	Output	Tol.	R&N	Effi.
SE-200-3.3	3.3V, 0~40A	±2%	150mV	75%
SE-200-5	5V, 0~40A	±2%	150mV	79%
SE-200-7.5	7.5V, 0~27A	±2%	150mV	82%
SE-200-12	12V, 0~17A	±1%	150mV	83%
SE-200-15	15V, 0~14A	±1%	150mV	85%
SE-200-24	24V, 0~8.8A	±1%	150mV	87%
SE-200-27	27V, 0~7.8A	±1%	200mV	87%
SE-200-36	36V, 0~5.9A	±1%	240mV	87%
SE-200-48	48V, 0~4.4A	±1%	240mV	88%

SE-450 Series



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%

SE-350 Series



Model No.	Output	Tol.	R&N	Effi.
SE-350-3.3	3.3V, 0~60A	±2%	150mV	75.0%
SE-350-5	5V, 0~60A	±2%	150mV	79.0%
SE-350-7.5	7.5V, 0~46A	±2%	150mV	82.0%
SE-350-12	12V, 0~29A	±1%	150mV	83.0%
SE-350-15	15V, 0~23.2A	±1%	150mV	85.0%
SE-350-24	24V, 0~14.6A	±1%	150mV	87.0%
SE-350-27	27V, 0~13A	±1%	200mV	87.5%
SE-350-36	36V, 0~9.7A	±1%	240mV	87.5%
SE-350-48	48V, 0~7.3A	±1%	240mV	87.5%



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.



Best products also need best service.

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



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

Enclosed-SE Series

600~1500W Single Output



■ Features

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

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



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

600W

SE-600

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

1000W

SE-1000

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

1500W

SE-1500

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

1000W Quad Output with PFC Function

Available by Request

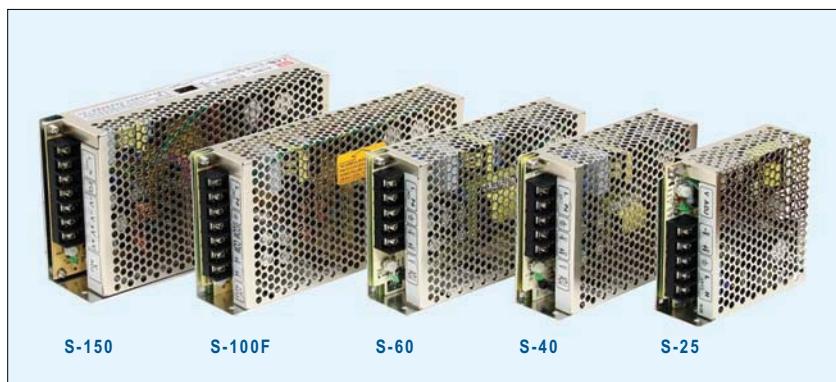
Low Cost Substitute of Modular Power



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

Enclosed-G2 Series

25~150W Single Output



Features

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

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

Model No.	S-25	S-40	S-60	S-100F	S-150						
AC input voltage range	85~264VAC, 120~370VDC			88~132/176~264 VAC selectable by switch							
AC inrush current (max.)	Cold start, 25A at 230VAC		Cold start, 50A at 230VAC		Cold start, 35A at 230VAC						
DC adjustment range	$\pm 10\%$ rated output voltage										
Overload protection	Range	105%~150% rated output power									
	Type	Hiccup mode, auto-recovery									
Over voltage protection	Range	115%~135% rated output voltage									
	Type	Hiccup mode, auto-recovery									
Withstand voltage	I/P - O/P: 3kVAC, I/P - FG: 1.5kVAC, O/P - FG: 0.5kVAC, 1 minute										
Working temperature	-10 ~ +60°C (refer to output derating curve)										
Safety standards	UL1012, TUV EN60950-1 approved	UL1012, UL60950-1 TUV EN60950-1 approved	UL1012, UL60950-1, TUV EN60950-1, GB4943 approved, CSA60950-1(S-100F-24 only)								
EMC standards	EN55022 class B, EN61000-3-2,3, EN50204, EN61000-4-2,3,4,5,6,8,11 (S-25/40: EN61000-4-2,3,4,5 only), GB9254 (S-60 / S-100F / S-150 only)										
Connection	5P / 9.5mm pitch terminal block			7P / 9.5mm pitch terminal block							
Dimension (LxWxH)(mm)	99x 97x 36	129x 98x 38	159x 97x 38	199x 98x 38	199x 110x 50						
Case No.	905	903	901	902	906						
Packing	45pcs/18kg	30pcs/13.9kg	24pcs/13.1kg	20pcs/14.2kg	16pcs/13.8kg						

S-25 Series



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

S-100F Series



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

S-40 Series



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

S-60 Series



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

S-150 Series



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

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

Enclosed-G2 Series

210~320W Single Output



Features

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

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

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

210W

S-210

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

250W

S-250

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

320W

S-320

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

400W Single Output with PFC Function

Available by Request

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



Best products also need best service.

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

Enclosed-PFC

75~240W Single Output



SP-240

SP-200

SP-150

SP-100

SP-75

Features

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



(SP-200 only)

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

Model No.	SP-75	SP-100	SP-150	SP-200	SP-240
AC input voltage range	85~264VAC, 120~370VDC				88~264VAC, 124~370VDC
AC inrush current (max.)	Cold start, 30A at 230VAC		Cold start, 40A at 230VAC		
DC adjustment range	-5~+10% rated output voltage				±15% rated output voltage
Overload protection	Range	105%~150%			105%~135%
	Type	Constant current, auto-recovery			
Over voltage protection	Range	115%~135%	110%~135%		120%~150%
	Type	Shut off, AC recycle to re-start			
Withstand voltage	I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, O/P-FG: 0.5kVAC, 1 minute				
Working temperature	-10~+60°C		-10~+50°C	-10~+60°C	-20~+70°C
Safety standards	UL60950-1, TUV EN60950-1, GB4943(SP-200 only) approved				
EMC standards	EN55022 class B, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3, ENV50204, GB9254(SP-200 only)				
Connection	5P / 9.5mm pitch	7P / 9.5mm pitch terminal block with cover			
Dimension (LxWxH)(mm)	179x99x33	179x99x45	199x99x50	199x99x50	190x93x50
Case No.	920A	915A	916A	916B	987A
Packing	20pcs/12.0kg	20pcs/14.3kg	20pcs/16.4kg	20pcs/17.9kg	18pcs/15.4kg

75W

SP-75

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

100W

SP-100

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



48hrs delivery—

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

150W

SP-150

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

200W

SP-200

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

240W

SP-240

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

Enclosed-PFC

320~750W Single Output



Features

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

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

Model No.	SP-320	SP-480	SP-500	SP-750	
AC input voltage range	88~264VAC	85~264VAC	88~264VAC	90~264VAC	
AC inrush current (max.)	Cold start, 40A at 230VAC		Cold Start, 36A at 230VAC	Cold Start, 45A at 230VAC	
DC adjustment range	±10% rated output voltage				
Overload protection	Range Type	105%~135% Hiccup mode, auto-recovery	105%~145% Constant current limiting, auto-recovery	105%~135% Fold back current limiting, auto-recovery	105%~125% Constant current limiting, hiccup after 3sec.
Over voltage protection	115%~145%	115%~140%			
Withstand voltage	I/P - O/P: 3kVAC, I/P - FG: 1.5kVAC, O/P - FG: 0.5kVAC, 1 minute				
Working temperature	-20~+65°C	-20~+60°C	-10~+50°C	-20~+60°C	
Safety standards	UL60950-1, TUV EN65950-1 approved, GB4943 approved also for SP-320				
EMC standards	EN55022 class B, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3, ENV50204, EN61000-6-2(SP-320 / 480 / 750), GB9254 (SP-320 only)				
Connection	9P / 9.5mm pitch terminal block with cover	9P / 11mm pitch terminal block with cover	7+8P / 9.5mm pitch terminal block with cover	5P / 10mm pitch terminal block with cover for input; copper pillars for output	
Dimension (LxWxH)(mm)	215x115x50	278x127x43	170x120x93	278x127x63.5	
Case No.	912G	929	910	919A	
Packing	12pcs / 14.0kg	6pcs / 11.3kg	8pcs / 15.5kg	6pcs / 18.4kg	

SP-320 Series



SP-500 Series



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

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

SP-480 Series



SP-750 Series



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



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

— "MEAN WELL" tries to be —

Enclosed-PFC

600~2000W Single Output



600W with PFC and Parallel Function

Parallel FCC c UL us CSA CB CE



CASE: 910A 170x 120x 93 mm

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

AC input voltage range 88~264VAC; 124~370VDC

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

DC adjustment range ±10% rated output voltage

Overload protection 105%~135% constant current, auto-recovery

Over voltage protection 115%~140% rated output voltage

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

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

Safety standards UL60950-1, TUV EN60950-1 approved

EMC standards EN55022 class B, EN61000-3-2,3

EN61000-4-2,3,4,5,6,8,11, ENV50204

Connection 7+8P/ 9.5mm pitch terminal block with cover

Packing 1.9kg ; 8pcs / 15.5kg / 1.06CUFT

Model No.	Output	Tol.	R&N	Effi.
PSP-600-5	5V, 0~80.0A	±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 with PFC and Parallel Function

Parallel FCC c UL us CSA CB CE



CASE: 952B 295x 127x 41 mm

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

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

DC adjustment range ±10% rated output voltage

Overload protection 105%~125% constant current, auto-recovery

Over voltage protection 115%~135% rated output voltage

Setup, rise, hold up time 300ms, 50ms, 16ms at full load and 230VAC

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

Working temperature -20~50°C@100%, 60°C@60% load

Safety standards UL60950-1, TUV EN60950-1 approved

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

Packing 1.95kg ; 6pcs / 12.7kg / 0.99CUFT

Model No.	Output	Tol.	R&N	Effi.
RSP-1000-12	12V, 0~60A	±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%

1500W with PFC and Parallel Function

Parallel FCC c UL us CSA CB CE



CASE: 943 278x 127x 83.5 mm

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

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

DC adjustment range -30~+10% rated output voltage

Overload protection 105%~135% constant current limiting, shut off after 5 sec.

Over voltage protection 115%~140% rated output voltage

Setup, rise, hold up time 1500ms, 100ms, 10ms at full load and 230VAC

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

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

Safety standards UL60950-1, TUV EN60950-1 approved

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

Packing 3.0kg ; 6pcs / 20.5kg / 1.54CUFT

Model No.	Output	Tol.	R&N	Effi.
RSP-1500-5	5V, 0~240A	±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%

2000W with PFC and Parallel Function

Parallel FCC

UL / CUL / TUV / CB / CE pending



CASE: 952B 295x 127x 41 mm

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

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

DC adjustment range ±10% rated output voltage

Overload protection 105%~125% constant current limiting, auto-recovery

Over voltage protection 120%~140% rated output voltage

Setup, rise, hold up time 1500ms, 60ms, 16ms at full load and 230VAC

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

Working temperature -25~70°C (refer to output derating curve)

Safety standards Design refer to UL60950-1, TUV EN60950-1

EMC standards EN55022 class B, EN61000-3-2,3,

EN61000-4-2,3,4,5,6,8,11, ENV50204

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

Enclosed-PFC

150~3000W Single Output



2400W with PFC and Parallel Function



CASE: 982B 278x 177.8x 63.5 mm

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

AC input voltage range 180~264VAC; 254~370VDC

DC adjustment range ±10% rated output voltage

Overload protection 100%~112% constant current limiting, shut off after 5 sec., re-power on to recover (can adjust to continuous constant current limiting)

Over voltage protection 115%~140% rated output voltage

Setup, rise, hold up time 1000ms, 80ms, 10ms at full load and 230VAC

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

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

Safety standards UL60950-1, TUV EN60950-1 approved

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

Packing 3.3kg ; 4pcs / 14.2kg / 1.89CUFT

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

3000W with PFC and Parallel Function



CASE: 982B 278x 177.8x 63.5 mm

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

AC input voltage range 180~264VAC; 254~370VDC

DC adjustment range ±10% rated output voltage

Overload protection 100%~112% constant current limiting, shut off after 5 sec., re-power on to recover (can adjust to continuous constant current limiting)

Over voltage protection 115%~140% rated output voltage

Setup, rise, hold up time 1000ms, 80ms, 10ms at full load and 230VAC

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

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

Safety standards UL60950-1, TUV EN60950-1 approved

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

Packing 4kg ; 4pcs / 16kg / 1.89CUFT

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

150W Single Output with PFC

UL/CUL/TUV/CE pending



Under Development

220x 62.5x 32 mm

- Universal AC input / Full range
- Withstand 300VAC surge input for 5 seconds
- Built-in active PFC function
- **High efficiency up to 90%**
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- 1U low profile: 32mm
- Built-in remote sense function
- LED indicator for power on
- **Conformal coating**
- **Suitable for moving sign application**
- 3 years warranty

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

AC inrush current Cold start, 65A at 230VAC

DC adjustment range ±10% rated output voltage

Overload protection 105%~150% hiccup mode, auto-recovery

Over voltage protection 115%~135% hiccup mode, auto-recovery

Setup, rise, hold up time 2000ms, 100ms, 16ms at full load and 230VAC

Withstand voltage I/P - O/P: 3.75kVAC, I/P-FG: 1.88kVAC,

O/P-FG: 0.5kVAC

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

Safety standards Design refer to UL60950-1, EN60950-1

EMC standards Design refer to EN55022 class B, EN61000-3-2 class C, EN61000-3-3, EN61547, ENV50204, EN61000-4-2,3,4,5,6,8,11

Model No.	Output	Tol.	R&N	Effi.
HSP-150-2.5	2.5V, 0~30A	±2%	50mV	80%
HSP-150-3.8	3.8V, 0~30A	±2%	50mV	86%
HSP-150-5	5V, 0~30A	±2%	50mV	90%

250W Single Output with PFC

UL/CUL/TUV/CE pending



NEW

199x 105x 41 mm

- Universal AC input / Full range
- Built-in active PFC function
- **Conformal coating**
- **High efficiency up to 87%**
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Forced air cooling by built-in DC fan
- 1U low profile: 41mm
- Built-in remote sense function
- LED indicator for power on
- **Suitable for moving sign application**
- 3 years warranty

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

DC adjustment range ±10% rated output voltage

AC inrush current Cold start, 70A at 230VAC

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

Over voltage protection 115%~135% shut down O/P voltage, re-power on to recover

Setup, rise, hold up time 3000ms, 50ms, 16ms at full load and 230VAC

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

Working temperature -40°C~+70°C (refer to output derating curve)

Safety standards UL60950-1, TUV EN60950-1 approved

EMC standards EN55022 Class B, EN61000-3-2,3, EN55024,

ENV50204, EN61000-4-2,3,4,5,6,8,11, EN61000-6-2

Model No.	Output	Tol.	R&N	Effi.
HSP-250-2.5	2.5V, 0~50A	±2%	100mV	79%
HSP-250-3.6	3.6V, 0~50A	±2%	100mV	83%
HSP-250-5	5V, 0~50A	±2%	100mV	87%

Enclosed-PFC

75~200W Single Output



Features

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

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



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



Features

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

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



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

300W

HRP□-300

Model No.	Output	Tol.	R&N	Effi.
HRP□-300-3.3	3.3V, 0~60A	±2.5%	80mV	80.0%
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

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	86.0%
HRP□-600-12	12V, 0~53A	±1%	120mV	88.0%
HRP□-600-15	15V, 0~43A	±1%	150mV	88.0%
HRP□-600-24	24V, 0~27A	±1%	150mV	88.0%
HRP□-600-36	36V, 0~17.5A	±1%	200mV	89.0%
HRP□-600-48	48V, 0~13A	±1%	240mV	89.0%

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

450W

HRP□-450 **NEW**

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



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— "MEAN WELL" tries to be —



Best products also need best service.

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



■ Features

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

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

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

■ 150W



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%

■ 600W



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

■ 300W



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%

■ 1500W



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



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

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Customer Satisfaction —

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



■ Features

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

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

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

■ MDR-10 Series



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

■ MDR-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-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-100 Series



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

■ 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%

Energy Saving —

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



To satisfy our customers is our goal —

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



■ Features

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

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



Model No.	DR-15	DR-30	DR-60	DR-100
AC input voltage range	85~264VAC, 120~370VDC		88~264VAC, 124~370VDC	
AC inrush current (max.)	Cold start, 65A at 230VAC	Cold start, 30A at 230VAC	Cold start, 36A at 230VAC	Cold start, 45A at 230VAC
DC adjustment range	±10% rated output voltage			12V: 12~15V, 15V: 15~18V, 24V: 24~29V
Overload Protection	Range	105%~160%		105%~135%
Over Voltage Protection	Type	constant current limiting, auto-recovery		
Range	115%~135% rated output voltage		125%~155% rated output voltage	
Type	Shut off, clamp by zener diode	Shut down, re-power on to recover		
Withstand voltage	I/P-O/P: 3kVAC			
Working temperature	-20°C~+60°C (refer to output load derating curve)			
Vibration	10~500Hz, 2G 10 min./1 cycle, period for 60 min. each along X, Y, Z axes			
Safety standards	UL60950-1, TUV60950-1 approved			
EMC standards	EN55022 class B, EN61000-3-2,3, EN61000-6-2, EN61000-4-2,3,4,5,6,8,11, ENV50204, EN61204-3			
Connection	I/P and O/P: 2 poles screw DIN terminal	I/P: 2 poles, O/P: 4 poles screw DIN terminal		
Dimension (WxHxD)(mm)	25x 93x 56	78x 93x 56	78x 93x 56	100x 93x 56
Case No.	985A	918B	918B	970A
Packing	140pcs / 15.0kg	48pcs / 14.0kg	48pcs / 15.4kg	36pcs / 13.6kg

■ 15W

DR-15

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

■ 60W

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

■ 30W

DR-30

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

■ 100W

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



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Energy Saving —

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



■ Features

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

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

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

■ DR-45 Series



■ DRP-240 Series



Model No.

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

Model No.

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

■ DR-75 Series



Model No.

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

■ DRP-480 Series



Model No.

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

■ DR-120 Series



Model No.

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

■ DRP-480S Series



Model No.

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



Customer Satisfaction —

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



To satisfy our customers is our goal —

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



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■ Features

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

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

Model No.	DRH-120	DRT-240	DRT-480	DRT-960
AC input voltage range	340~550VAC, two 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: 1.5kVAC, O/P - FG: 0.5kVAC, 1 minute			
Working temperature	-20~+60°C	-20~+70°C		-20~+60°C
Safety standards	UL60950-1 approved	UL508, UL60950-1, TUV EN60950-1 approved		
EMC standards	EN55022 class B, EN61000-3-2,3, ENV50204, EN61000-4-2,3,4,5,6,8,11, EN61204-3, EN61000-6-2 heavy industry level			
Connection (screw DIN terminal)	I/P: 3 poles, O/P: 4 poles	I/P: 4 poles, O/P: 4 poles	I/P: 4 poles, O/P: 6 poles	
Dimension (WxHxD)(mm)	65.5x 125.2x 100	125.5x 125.2x 100	227x 125.2x 100	276x 125.2x 100
Case No.	921	922A	930A	934
Packing	20pcs / 16.0kg	12pcs / 16.6kg	6pcs / 16.0kg	4pcs / 14.2kg

■ DRH-120 (Two Phase)

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

■ DRT-480 (Three Phase)

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

■ DRT-240 (Three Phase)

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

■ DRT-960 (Three Phase)

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



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48hrs delivery—

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Features

- Single and two phase wide input range 180~550VAC
- Built-in active PFC (WDR-240/480)
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Built-in constant current limiting circuit
- Can be installed on DIN rail TS-35/7.5 or 15
- UL508(industrial control equipment) approved
- EN61000-6-2(EN50082-2) industrial immunity level
- Built-in DC OK relay contact
- 100% full load burn-in test
- 3 years warranty



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

Model No.	WDR-120 NEW	WDR-240 NEW	WDR-480 NEW
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 voltage, constant current limiting, auto-recovery		
Over voltage protection	Range	16~18V for 12V model (only for WDR-120), 31~37V for 24V model, 60~67V for 48V model	
	Type	Shut down o/p voltage, auto-recovery	
Setup, rise, hold up time	2000ms, 70ms, 10ms at full load and 230VAC	2000ms, 150ms, 16ms at full load and 230VAC	
Over temperature protection	Range	100°C±5°C (TSW1 : detect on heatsink of power switch)	105°C~±5°C
	Type	Shut down output voltage, recovers automatically after temperature goes down	
Withstand voltage	I/P-O/P:3kVAC I/P-FG:1.5kVAC O/P-FG:0.5kVAC		
Isolation resistance	100MΩ(min.)@500VDC		
Working temperature	-25~+70°C (Refer to output derating curve)	-30°C~+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 approved (240W pending)		
EMC standards	Compliance to EN55011(CISPR11), EN55022 Class B, EN61000-4-2,3,4,5,6,8,11, ENV50204, EN61000-6-2 (EN50082-2), EN61204-3, heavy industry level		
Connection	I/P: 3 poles, O/P: 4 poles screw DIN terminal	I/P: 3 poles, O/P: 6 poles screw DIN terminal	
Dimension (WxHxD)(mm)	40x 125.2x 113.5	63x 125.2x 113.5	85.5x 125.2x 128.5
Packing	20pcs / 14kg	12pcs / 13.4kg	8pcs / 14.6kg

120W

NEW WDR-120

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

240W

NEW WDR-240

Model No.	Output	Tol.	R&N	Effi.
WDR-240-24	24V, 0~10A	±1.0%	100mV	90%
WDR-240-48	48V, 0~5A	±1.0%	120mV	90%

480W

NEW WDR-480

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%



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To satisfy our customers is our goal —

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



SDR-120

SDR-240

SDR-480P

■ Features

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

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



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

■ 120W

SDR-120

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

■ 240W

SDR-240

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

■ 480W

SDR-480

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

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



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► Feature Description

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

20A Power Supply Redundant Module

CE



CASE: 923C 55.5x 125.2x 100 mm

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

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

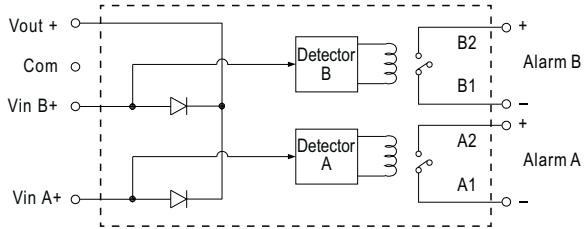
Model No.	Output	Reverse Voltage	Current
DR-RDN20	24V, 20A	30V max.	20A max.

► Feature Description

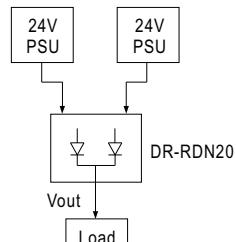
DR-RDN-20 is a 20A redundancy (decoupling) module for the 24Vdc power system. Containing 2 sets of 20A Or-ing diodes with wonderful heat dissipation deployment, DR-RDN20 offers a safe option of 1+1 redundant set-up. Not only perfectly decouple power sources from each other as well as from the load, DR-RDN-20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

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

Block Diagram



Example of Application



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

40A DC UPS Module

CE



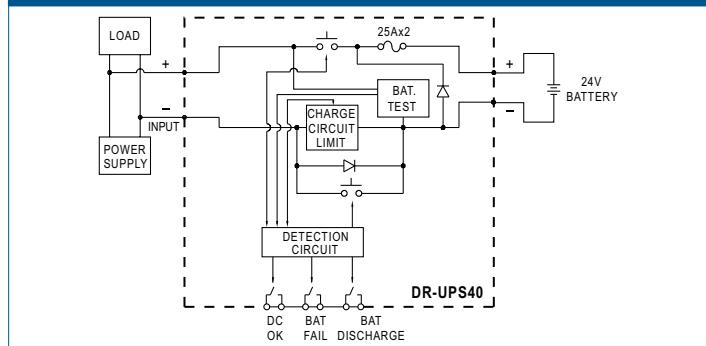
CASE: 923D 55.5x 125.2x 100 mm

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

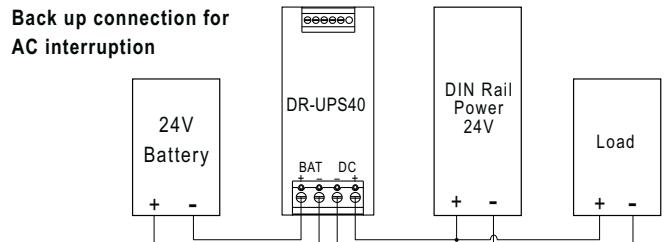
DC input / DC bus 24~29V, 40A max.
 Battery input voltage 21~29V
 Battery input Current 0~40A
 Charge current (typ.) 2A
 External battery (typ.) 24V, 4AH / 7AH / 12AH
 DC bus ok Relay status : Short when DC voltage between 21~29V($\pm 3\%$), relay contacts
 LED(Green) : DC bus OK : light;
 DC bus fail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

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

Block Diagram



Example of Application



DC/DC Converter

30W Single Output DC-DC Converter

CE



101.6x 50.8x 30 mm

- 2:1 wide input range
- Protections: Short circuit / Overload / Over voltage / Reverse polarity
- 1500VAC I/O isolation
- Cooling by free air convection
- Built-in EMI filter, low ripple noise
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

DC adjustment range 5V: 4.5~5.5V, 12V: 11~13.5V, 24V: 22~26V

Line and load regulation .. ±1% (max.)

Overload protection 105%~150% fold back current limiting, auto-recovery

Over voltage protection ... 115%~135% rated output voltage

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

Working temperature -20~55°C (refer to output derating curve)

EMC standards EN55022 class B, EN61000-4-2,3,4,6,8, EN55024

Connection 3P, 4P / 3.96mm pitch, JST B3P/B4P-VH-B

Model No.	Input	Output	R&N	Effi.
PSD-30A-05	9~18V	5V, 0~5.0A	100mV	77%
PSD-30A-12	9~18V	12V, 0~2.5A	120mV	77%
PSD-30A-24	9~18V	24V, 0~1.25A	150mV	78%
PSD-30B-05	18~36V	5V, 0~5.0A	100mV	79%
PSD-30B-12	18~36V	12V, 0~2.5A	120mV	80%
PSD-30B-24	18~36V	24V, 0~1.25A	150mV	83%
PSD-30C-05	36~72V	5V, 0~5.0A	100mV	80%
PSD-30C-12	36~72V	12V, 0~2.5A	120mV	82%
PSD-30C-24	36~72V	24V, 0~1.25A	150mV	83%

45W Single Output DC-DC Converter

CB CE



127x 76x 30 mm

- 2:1 wide input range
- Protections: Short circuit / Overload / Over voltage / Reverse polarity
- Cooling by free air convection
- Built-in EMI filter, low ripple noise
- 100% full load burn-in test
- Fixed switching frequency at 96kHz
- Low cost
- 2 years warranty

DC adjustment range 5V: 4.5~5.5V, 12V: 10.8~13.2V,

24V: 21.6~26.4V

Line and load regulation ±1% (max.)

Overload protection 105%~160% shut down, re-power on to recover

Over voltage protection ... 115%~135% rated output voltage

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

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

Safety standards EN60950-1 CB approved by TUV

EMC standards EN55022 class B, EN61000-4-2,3,4,6,8, EN55024

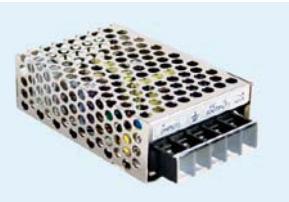
Connection 2P, 6P / 3.96mm pitch, Molex 5277-02, 5273-06

Packing 0.19kg ; 72pcs / 15.6kg / 1.35CUFT

Model No.	Input	Output	R&N	Effi.
PSD-45A-05	9.2~18V	5V, 0~6.0A	100mV	74%
PSD-45A-12	9.2~18V	12V, 0~2.5A	120mV	79%
PSD-45A-24	9.2~18V	24V, 0~1.25A	150mV	80%
PSD-45B-05	18~36V	5V, 0~9.0A	100mV	77%
PSD-45B-12	18~36V	12V, 0~3.75A	120mV	82%
PSD-45B-24	18~36V	24V, 0~1.875A	150mV	85%
PSD-45C-05	37~72V	5V, 0~9.0A	100mV	80%
PSD-45C-12	37~72V	12V, 0~3.75A	120mV	83%
PSD-45C-24	37~72V	24V, 0~1.875A	150mV	86%

15W Single Output DC-DC Converter

CE



CASE: 931

78x 51x 28 mm

- 2:1 wide input range
- 2000VAC I/O isolation
- Cooling by free air convection
- Protections: Short circuit / Over load / Over voltage
- Built-in EMI filter, low ripple noise
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

DC adjustment range 5V: 4.75~5.5V, 12V: 10.8~13.2V, 24V: 21.6~26.4V

Line and load regulation ±0.5% (max.)

Overload protection 105%~160% hiccup mode, auto-recovery

Over voltage protection 115%~135% rated output voltage

Withstand voltage I/P-O/P: 2kVAC, I/P-FG: 1.5kVAC, 1 minute

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

Safety standard Meet LVD

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

Packing 0.18kg ; 60pcs / 11.8kg

Model No.	Input	Output	R&N	Effi.
SD-15A-5	9.2~18V	5V, 0~3.0A	100mV	68%
SD-15A-12	9.2~18V	12V, 0~1.25A	120mV	72%
SD-15A-24	9.2~18V	24V, 0~0.625A	150mV	70%
SD-15B-5	18~36V	5V, 0~3.0A	100mV	76%
SD-15B-12	18~36V	12V, 0~1.25A	120mV	76%
SD-15B-24	18~36V	24V, 0~0.625A	150mV	77%
SD-15C-5	36~72V	5V, 0~3.0A	100mV	75%
SD-15C-12	36~72V	12V, 0~1.25A	120mV	79%
SD-15C-24	36~72V	24V, 0~0.625A	150mV	78%

25W Single Output DC-DC Converter

CE



CASE: 905

99x 97x 36 mm

- 2:1 wide input range
- 1500VAC I/O isolation
- Protections: Short circuit / Overload / Over voltage
- Built-in EMI filter, low ripple noise
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

DC adjustment range 5V: 4.5~5.5V, 12V: 11~16V, 24V: 23~30V

Line and load regulation ±0.5% (max.)

Overload protection 105%~150% fold back current limiting, auto-recovery

Over voltage protection 115%~165% rated output voltage

Withstand voltage I/P-O/P: 2kVAC, I/P-FG: 1.5kVAC, 1 minute

Isolation resistance 100MΩ (min.) @500VDC

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

Safety standards Meet LVD

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

Packing 0.38kg ; 45pcs / 17.8kg / 0.9CUFT

Model No.	Input	Output	R&N	Effi.
SD-25A-5	9.2~18V	5V, 0~5.0A	100mV	71%
SD-25A-12	9.2~18V	12V, 0~2.1A	120mV	72%
SD-25A-24	9.2~18V	24V, 0~1.1A	150mV	75%
SD-25B-5	18~36V	5V, 0~5.0A	100mV	72%
SD-25B-12	18~36V	12V, 0~2.1A	120mV	75%
SD-25B-24	18~36V	24V, 0~1.1A	150mV	78%
SD-25C-5	36~72V	5V, 0~5.0A	100mV	74%
SD-25C-12	36~72V	12V, 0~2.1A	120mV	78%
SD-25C-24	36~72V	24V, 0~1.1A	150mV	81%

DC/DC Converter

50~200W Enclosed Single Output



50W Single Output DC-DC Converter

CE



CASE: 901

159x 97x 38 mm

- 2:1 wide input range
- 1500VAC I/O isolation
- Protections: Short circuit / Over load / Over voltage
- Built-in EMI filter, low ripple noise
- Cooling by free air convection
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

DC adjustment range 5V: 4.5~5.5V, 12V: 11~16V, 24V: 23~30V

Line and load regulation $\pm 0.5\%$ (max.)

Overload protection 105%~150% fold back current limiting, auto-recovery

Over voltage protection 115%~165% rated output voltage

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

Isolation resistance 100M Ω (min.) @500VDC

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

Safety standard Meet LVD

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

Packing 0.53kg ; 24pcs / 12.7kg / 0.75CUFT

Model No.	Input	Output	R&N	Effi.
SD-50A-5	9.2~18V	5V, 0~10A	100mV	70%
SD-50A-12	9.2~18V	12V, 0~4.2A	120mV	72%
SD-50A-24	9.2~18V	24V, 0~2.1A	150mV	74%
SD-50B-5	19~36V	5V, 0~10A	100mV	73%
SD-50B-12	19~36V	12V, 0~4.2A	120mV	75%
SD-50B-24	19~36V	24V, 0~2.1A	150mV	80%
SD-50C-5	36~72V	5V, 0~10A	100mV	76%
SD-50C-12	36~72V	12V, 0~4.2A	120mV	78%
SD-50C-24	36~72V	24V, 0~2.1A	150mV	83%

100W Single Output DC-DC Converter

CE



CASE: 902

199x 98x 38 mm

- 2:1 wide input range
- 1500VAC I/O isolation
- Protections: Short circuit / Overload / Over voltage
- Built-in EMI filter, low ripple noise
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

DC adjustment range 5V: 4.5~5.5V, 12V: 11~16V, 24V: 23~30V

Line regulation $\pm 0.5\%$ (max.)

Load regulation $\pm 0.5\%$ (max.)

Overload protection 105%~135% fold back current limiting, auto-recovery

Over voltage protection 115%~165% rated output voltage

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

Isolation resistance 100M Ω (min.) @500VDC

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

Safety standards Meet LVD, EN60950-1 CB approved by TUV (D type only)

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

Packing 0.65kg ; 20pcs / 13.8kg / 0.8CUFT

Model No.	Input	Output	R&N	Effi.
SD-100B-5	19~36V	5V, 0~20A	100mV	74%
SD-100B-12	19~36V	12V, 0~8.5A	120mV	75%
SD-100B-24	19~36V	24V, 0~4.2A	150mV	78%
SD-100C-5	36~72V	5V, 0~20A	100mV	75%
SD-100C-12	36~72V	12V, 0~8.5A	120mV	77%
SD-100C-24	36~72V	24V, 0~4.2A	150mV	81%
SD-100D-5	72~144V	5V, 0~20A	100mV	76%
SD-100D-12	72~144V	12V, 0~8.5A	120mV	80%
SD-100D-24	72~144V	24V, 0~4.2A	150mV	83%

150W Single Output DC-DC Converter

CE



CASE: 906

199x 110x 50 mm

- 2:1 wide input range
- 1500VAC I/O isolation
- Protections: Short circuit / Over load / Over voltage
- Built-in EMI filter, low ripple noise
- Cooling by free air convection
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

DC adjustment range 12V: 11~16V, 24V: 23~30V

Line regulation $\pm 0.5\%$ (max.)

Load regulation $\pm 0.5\%$ (max.)

Overload protection 105%~135% fold back current limiting, auto-recovery

Over voltage protection 130%~165% rated output voltage

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

Isolation resistance 100M Ω (min.) @500VDC

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

Safety standards Meet LVD, EN60950-1 CB approved by TUV (D type only)

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

Packing 0.86kg ; 16pcs / 14.5kg / 0.95CUFT

200W Single Output DC-DC Converter

CE



CASE: 912B

215x 115x 50 mm

- 2:1 wide input range
- 1500VAC I/O isolation
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Cooling by free air convection
- 100% full load burn-in test
- 2 years warranty

DC adjustment range 5V: 4.5~5.5V, 12V: 11~16V, 24V: 23~30V, 48V: 43~53V

Voltage tolerance..... $\pm 2\%$ (max.)

Overload protection 105%~135% shut off, re-power on to recover

Over voltage protection 110%~167% rated output voltage

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

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

Safety standards Meet LVD, EN60950-1 CB approved by TUV (D type only)

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

Packing 1.1kg ; 12pcs / 14.4kg / 0.92CUFT

Model No.	Input	Output	R&N	Effi.
SD-200B-5	19~36V	5V, 0~34.0A	100mV	79%
SD-200B-12	19~36V	12V, 0~16.7A	120mV	82%
SD-200B-24	19~36V	24V, 0~8.40A	150mV	85%
SD-200B-48	19~36V	48V, 0~4.20A	200mV	86%
SD-200C-5	36~72V	5V, 0~40.0A	100mV	81%
SD-200C-12	36~72V	12V, 0~16.7A	120mV	84%
SD-200C-24	36~72V	24V, 0~8.40A	150mV	86%
SD-200C-48	36~72V	48V, 0~4.20A	200mV	86%
SD-200D-5	72~144V	5V, 0~40.0A	100mV	82%
SD-200D-12	72~144V	12V, 0~16.7A	120mV	82%
SD-200D-24	72~144V	24V, 0~8.40A	150mV	84%
SD-200D-48	72~144V	48V, 0~4.20A	200mV	90%

DC/DC Converter



350W Single Output DC-DC Converter

CE



CASE: 912A 215x 115x 50 mm

- 2:1 wide input range
- 1500VAC I/O isolation
- Protections: Short circuit / Over load / Over voltage / Over temp.
- Forced air cooling by built-in DC fan
- 100% full load burn-in test
- 2 years warranty

DC adjustment range 5V: 4.5~5.5V, 12V: 11~16V, 24V: 23~30V,
48V: 43~53V

Voltage tolerance ±2% (max.)

Overload protection 105%~135% shut off, re-power on to recover

Over voltage protection 110%~167% rated output voltage

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

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

Safety standards Meet LVD, EN60950-1 CB approved by TUV
(D type only)

EMC standards EN55022 class B, EN61000-4-2,3,4,6,8, ENV50204
Packing 1.1kg ; 12pcs / 14.4kg / 0.92CUFT

Model No.	Input	Output	R&N	Effi.
SD-350B-5	19~36V	5V, 0~57.0A	100mV	74%
SD-350B-12	19~36V	12V, 0~27.5A	120mV	80%
SD-350B-24	19~36V	24V, 0~14.6A	150mV	80%
SD-350B-48	19~36V	48V, 0~7.30A	200mV	84%
SD-350C-5	36~72V	5V, 0~60.0A	100mV	76%
SD-350C-12	36~72V	12V, 0~27.5A	120mV	81%
SD-350C-24	36~72V	24V, 0~14.6A	150mV	81%
SD-350C-48	36~72V	48V, 0~7.30A	200mV	82%
SD-350D-5	72~144V	5V, 0~60.0A	100mV	78%
SD-350D-12	72~144V	12V, 0~29.2A	120mV	83%
SD-350D-24	72~144V	24V, 0~14.6A	150mV	87%
SD-350D-48	72~144V	48V, 0~7.30A	200mV	89%

500W Single Output DC-DC Converter

CB CE



CASE: 912A 215x 115x 50 mm

- 4:1 & 2:1 DC input range
- DC input active surge current limiting
- Protections: Short circuit / Overload / Over voltage / Over temp. / Input polarity
- 2000VAC I/O Isolation
- Forced air cooling by built-in DC fan with fan speed control function
- Output OK signal
- Built-in remote ON-OFF control
- Built-in remote sense function
- 3 years warranty

DC adjustment range 12V: 11~15V, 24V: 23~30V, 48V: 46~60V

Line regulation ±0.5% (max.)

Load regulation ±0.5% (max.)

Overload protection 105%~125% constant current limiting, shut off after 5 sec., AC recycle to re-start

Over voltage protection 130%~160% rated output voltage

Withstand voltage I/P-O/P: 2kV, I/P-FG: 1.5kV, 1 minute

Isolation resistance 100MΩ(min.) @500VDC

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

Safety standards IEC60950-1 CB approved by TUV

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

Packing 1.15kg ; 12pcs / 14.8kg / 0.92CUFT

Model No.	Input	Output	R&N	Effi.
SD-500L-12	19~72V	12V, 0~40A	150mV	86%
SD-500L-24	19~72V	24V, 0~21A	150mV	88%
SD-500L-48	19~72V	48V, 0~10.5A	150mV	89%
SD-500H-12	72~144V	12V, 0~40A	150mV	87%
SD-500H-24	72~144V	24V, 0~21A	150mV	89%
SD-500H-48	72~144V	48V, 0~10.5A	150mV	90%

100~1000W Enclosed Single Output

1000W Single Output DC-DC Converter

CB CE



CASE: 952B 295x 127x 41 mm

- 4:1 & 2:1 wide input range
- 2000VAC I/O Isolation
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Forced air cooling by built-in DC fan
- High power density 10.7W/inch³
- 1U low profile 41mm
- Output OK signal
- 12V / 0.25A auxiliary output
- Built-in remote ON/OFF control
- Built-in remote sense function
- 3 years warranty

DC adjustment range 12V: 11~15V, 24V: 23~30V, 48V: 46~60V

Line regulation ±0.5% (max.)

Load regulation ±0.5% (max.)

Overload protection 105%~125% constant current limiting, shut off after 5 sec., AC recycle to re-start

Over voltage protection 130%~160% rated output voltage

Withstand voltage I/P-O/P: 2kV, I/P-FG: 1.5kV, 1 minute

Isolation resistance 100MΩ(min.) @500VDC

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

Safety standards IEC60950-1 CB approved by TUV

EMC standards EN55022 class B, EN61000-4-2,3,4,6,8, ENV50204
Packing 1.94kg ; 6pcs / 12.6kg / 0.99CUFT

Model No.	Input	Output	R&N	Effi.
SD-1000L-12	19~72V	12V, 0~60A	150mV	84%
SD-1000L-24	19~72V	24V, 0~40A	150mV	88%
SD-1000L-48	19~72V	48V, 0~21A	150mV	90%
SD-1000H-12	72~144V	12V, 0~60A	150mV	85%
SD-1000H-24	72~144V	24V, 0~40A	150mV	89%
SD-1000H-48	72~144V	48V, 0~21A	150mV	92%

100W Railway Single Output DC-DC Converter

CE pending



Under Development

159x 68x 36 mm

- Comply with EN50155 railway certificate
- 2:1 wide input range
- Protections: Short circuit / Overload / Over voltage / Over temp. / Input polarity
- 4000VDC I/O isolation
- Cooling by free air convection
- Built-in constant current limiting circuit
- 1U low profile 36mm
- All using 105°C long life electrolytic capacitors
- 100% full load burn-in test
- 3 years warranty

DC adjustment range 5V: 4.75~6.25V, 12V: 11.4~15V, 24V: 22.8~30V

Line regulation ±0.5% (max.)

Load regulation ±1% (max.)

Overload protection 105%~135% constant current limiting, recovers automatically after fault condition is removed

Over voltage protection 130%~150% 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(min.) @500VDC

Working temperature -40°C ~ +70°C (refer to output derating curve)

Safety standards Design refer to UL60950-1, TUV EN60950-1, EN50155

EMC standards Design refer to EN55022 class B, EN50121-3-2, EN61000-4-2,3,4,6,8; ENV50204

Model No.	Input	Output	R&N	Effi.
RSD-100B	14.4~33.6V	5V, 0~20A	100mV	89%
		12V, 0~8.4A	120mV	89%
RSD-100C	28.8~67.2V	24V, 0~4.2A	150mV	89%
		5V, 0~20A	100mV	90%
RSD-100D	57.6~154V	12V, 0~8.4A	120mV	91%
		24V, 0~4.2A	150mV	91%

* For DC/DC converters, derating may be needed under low input voltage, please check the specification sheet for details.