

# Avanti Power Repairs

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## ENCLOSED



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# **INTRODUCTION**

**Avanti Power Repairs was founded in 1996, as a company we have steadily expanded to meet the demand of our customers and will continue to do so with the ever increasing and changing demands of the industry.**

**We specialize in the manufacture, design and distribution of switch mode, and more recently linear power supplies. Our range is extensive starting at a low 5 watts and going through to 2000 watts. We also offer these units in both single and multi outputs, covering a vast range power supplies for every need, the majority of which have full universal input**

**Avanti Power Repairs is working to the highest quality standards (ISO9001) in providing advice and services based solely on your requirements. We pride ourselves on being flexible in dealing with your needs and will provide you a service that is second to none. With a skilled and dedicated workforce, this workforce will ensure that all the product information you require is available with the least delay to you as is possible.**

**If you do not find a product within our catalogue that meets your requirements please contact our technical sales team, at one of the addresses or numbers below, who will be more than capable of helping you find a unit to meet your needs. Our full research and development capability will allow you initial design concept to be seen through to a fully documented finish project.**

***“With the Power to help you”***

## **ENCLOSED**

An enclosed power supply is typically perceived as the metal cased variety; the benefit of this is to stop components being exposed & in turn providing an extra measure of safety for service personnel of end user systems. Encapsulated power supplies are also included under the enclosed power supply banner on our site as they also protect components and may offer your application the most suitable specifications.

Avanti's enclosed power supply range offer flexible OEM power solutions from 5W to 10000W in single, dual, triple and quad outputs; our parallel units have the functionality to take this up to 9000W. Our enclosed power supplies have varied function, including full range input, active power factor correction, low no load power consumption, programmable outputs and even medical safety approval to MOOP levels; the majority of which have short circuit, over load and over voltage protections.

Whether you are looking for a high reliability miniature, PFC, modular, programmable or UPS function; from the encapsulated APC Series to the large Parallel function RSP's you are sure to find the enclosed power supply you need from Avanti.

Not what you were looking for? Just give one of our sales team a call.

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## RS-15 Series - 15W Single Output AC-DC Enclosed Power Supply

### Applications

General electronic machinery or equipment  
Automation  
Test equipment  
Small scale LED signs



### Features

Universal AC input / Full range  
Short circuit, over load, over voltage, over temperature protections  
Cooling by free air convection  
LED indicator for power on  
100% full load burn-in test  
All using 105°C long life electrolytic capacitors  
Withstand 300VAC surge input for 5 second  
High operating temperature up to 70°C  
Withstand 5G vibration test  
High efficiency, long life and high reliability



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
RS-15-3-3	3.3V	3A	9.9W	80mV	72%
RS-15-5	5V	3A	15W	80mV	77%
RS-15-12	12V	1.3A	15.6W	120mV	81%
RS-15-15	15V	1A	15W	120mV	81%
RS-15-24	24V	0.625A	15W	200mV	82%
RS-15-48	48V	0.313A	15W	200mV	82%

### Specification

Input Voltage	85 ~ 264Vac 120 ~ 370Vdc
Input Current	0.35A/115Vac 0.25A/230Vac
Input Frequency	47 ~ 63Hz
Inrush Current	50A/ 230Vac, cold start
Leakage Current	<2mA/ 240Vac
Holdup Time	70ms/230Vac 15ms/115Vac at full load
Over Voltage Protection	Shut off o/p voltage, clamping by zener diode
Humidity	20 ~ 90% RH non-condensing
Over Temperature Protection	Shut down o/p voltage, recovers automatically after temperature goes down
Storage Temperature, Humidity	-40°C to +85°C, 10 ~ 95% RH
MTBF	1608.8Khrs min. MIL-HDBK-217F (25°C)

### Description

The new RS-15 Series are 20% smaller than their 20W counterpart and are our most miniature AC/DC enclosed type switching power supplies that can provide 15W by only free air convection. RS-15 is fully RoHS compliant and all the electrolytic capacitors in the unit are rated in 105°C. RS-15 can also withstand 300VAC input surge for 5 seconds and 5G vibration meaning that is suitable for operation in harsh environments. Full output wattage can be provided up to 50°C and the highest operating temperature is as high as 70°C, with certain de-rating. Other standard functions include short circuit, overload, over voltage, and over temperature protections.

## SPS-G015 Series - 15W AC/DC Green Mode Enclosed Power Supply

### Applications

Logic control circuit designing  
Automatic control systems  
Industrial control systems  
Test equipment  
LED displays  
Security devices



### Features

Green mode designing, no load < 0.3W  
All using 105°C long life electrolytic capacitors  
Over load, over voltage, short circuit protection  
Small size, high efficiency  
Output voltage  $\pm 10\%$  adjustment  
100% full load burn-in test  
-20°C~70°C operating temperature  
UL, cUL, TUV, CB, CE approved



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPS-G015-3-3	3.3V	3A	10W	80mV	72%
SPS-G015-05	5V	3A	15W	80mV	77%
SPS-G015-12	12V	1.3A	15.6W	120mV	81%
SPS-G015-15	15V	1.0A	15W	120mV	81%
SPS-G015-24	24V	0.63A	15.1W	200mV	82%
SPS-G015-48	48V	0.32A	15.4W	200mV	82%

### Specification

Input Voltage 88V ~ 264Vac universal full range or 125V ~375Vdc  
Input Current <0.5A@100Vac input, full load condition  
Input Frequency 47 ~ 63Hz  
Inrush Current <30A@115V , <50A@230Vac input, Cold start at 25°C ambient  
Leakage Current <0.5mA@264Vac input  
Holdup Time >60mS@230V, full load condition  
Over Voltage Protection Over voltage latch  
Rise Time <50mS  
Operating Humidity 20% ~ 85% (non condensing)  
Storage Temperature, Humidity -40°C ~ +85°C, 10% ~ 95% (non condensing)  
Terminal Pitch 5P / 7.62mm with plastic cover

### Description

SPS-G015 is a single output AC/DC enclosed power supply with green mode function for low power consumption. With wide range operation temperatures of -20°C to +70°C (please refer to spec details),  $\pm 10\%$  output voltage adjustment and <0.3W no load power consumption, as well as short circuit, over voltage and over load protections.



## RS-25 Series - 25W Single Output AC-DC Enclosed Power Supply



### Features

- Universal AC input / Full range
- Protections: Short circuit/Over load/Over voltage
- Cooling by free air convection
- LED indicator for power on
- 100% full load burn-in test
- All using 105°C long life electrolytic capacitors
- Withstand 300VAC surge input for 5 second
- High operating temperature up to 70
- Withstand 5G vibration test
- High efficiency, long life and high reliability



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
RS-25-3-3	3.3V	6A	19.8W	80mV	72%
RS-25-5	5V	5A	25W	80mV	77%
RS-25-12	12V	2.1A	25.2W	120mV	79%
RS-25-15	15V	1.7A	25.5W	120mV	82%
RS-25-24	24V	1.1A	26.4W	120mV	84%
RS-25-48	48V	0.57A	27.36W	200mV	85%

### Specification

Input Voltage	88 ~ 264Vac 125 ~ 373Vdc (Withstand 300Vac surge for 5sec. Without damage)
Frequency Range	47 ~ 63Hz
Input Current	0.7A/115Vac 0.4A/230Vac
Inrush Current (max.)	30A at 230Vac, cold start
Leakage Current	<2mA at 240Vac
Working Humidity	20 ~ 90% RH non-condensing
Hold Time	80ms at 230Vac 14ms at 115Vac, full load
Working Temperature	-20°C to +70°C (Refer to output load de-rating curve)
Set up, Rise Time	1200ms, 23ms at 230VAC 2200ms, 30ms at 115Vac, full load
Over Voltage Protection	Hiccup mode, recovers automatically after fault condition is removed



## SPS-025 Series - 25W Single Output Switching Power Supply



### Features

- Universal input
- Built-in EMI filter
- Low ripple noise
- No min. load requirement
- Output voltage  $\pm 10\%$  adjustment
- 100% 50°C burn-in test
- Green mode design - meets IEA standard  $< 0.75W$  (standby state)
- Over voltage, over load & short circuit protections



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPS-025-3-3	3.3V	6.0A	20W	50mV	71%
SPS-025-05	5.0V	5.0A	25W	50mV	75%
SPS-025-7-5	7.5V	3.4A	25W	50mV	79%
SPS-025-12	12V	2.1A	25W	100mV	82%
SPS-025-15	15V	1.7A	25W	100mV	82%
SPS-025-24	24V	1.1A	27W	100mV	85%
SPS-025-30	30V	0.9A	27W	100mV	85%
SPS-025-48	48V	0.57A	27W	100mV	85%

### Specification

Input Voltage	85 to 264Vac 120 to 375Vdc
Input Current	0.8A max. at 100Vac input, full load
Input Frequency	47 to 63Hz
Inrush Current	30A max. at 115Vac input, full load, 50A max at 230Vac input, full load
Leakage Current	1.0mA max. at 264Vac input
Over Load Protection	Over 105% ~ 200% of rating, recovers removed automatically after fault condition has been
Short Circuit Protection	Auto recovers once fault condition removed
Rise Time	20mS max
Hold Up Time	40mS min. at 230Vac
Operating Humidity	20% ~ 85% (non condensing)
Storage Temperature, Humidity	-25°C ~ 75°C, 10% ~ 95% (non condensing)
Operating Temperature	-25°C ~ 70°C ; De-rating: -25°C ~ -10°C : 2.5%/°C / 50°C ~ 70°C 2.5%/°C

## SPS-G025 Series - 25W AC/DC Green Mode Enclosed Power Supply

### Applications

Logic control circuit designing  
Automatic control systems  
Industrial control systems  
Test equipment  
LED displays  
Security devices



### Features

Green mode designing, no load < 0.3W  
High efficiency and high reliability  
Built in EMI filter, low ripple noise  
Over load, over voltage, short circuit protection  
Output voltage  $\pm 10\%$  adjustment  
100% full load burn-in test  
-20°C~70°C operating temperature  
UL, cUL, TUV, CB, CE approved



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPS-G025-3-3	3.3V	6A	20W	50mV	72%
SPS-G025-05	5V	5A	25W	70mV	77%
SPS-G025-7-5	7.5V	3.4A	25W	70mV	78%
SPS-G025-12	12V	2.1A	25W	120mV	81%
SPS-G025-15	15V	1.7A	25W	150mV	82%
SPS-G025-24	24V	1.1A	27W	150mV	84%
SPS-G025-30	30V	0.9A	27W	200mV	85%
SPS-G025-48	48V	0.57A	27W	200mV	85%

### Specification

Input Voltage	88V ~ 264Vac universal full range or 125V ~ 375Vdc
Inrush Current	<30A@115V , <50A@230Vac input, Cold start at 25°C ambient
Input current	<0.65A@100Vac input, full load condition
Input Frequency	47~440Hz
Hold Up Time	>60mS@230V, full load condition
Leakage Current	<1.5mA@264Vac input
Rise Time	<30mS
Set Up Time	<1 Sec@100 ~ 240Vac
Over Voltage Protection	Over voltage latch
Over Load &	Over 105%~ 180% rate load or short circuit activated
Short Circuit Protection	Hiccup mode with auto recovery once fault condition removed
Green Mode Function	No load power consumption <0.3W at 240Vac input
Cooling	Natural cooling
Terminal Pitch	5P / 7.62mm with plastic cover

### Description

SPS-G025 is a single output AC/DC enclosed power supply with green mode function for low power consumption. With wide range operation temperatures of -20°C to +70°C (please refer to spec details),  $\pm 10\%$  output voltage adjustment and <0.3W no load power consumption, as well as short circuit, over voltage and over load protections. For DIN Rail applications there is also a new DIN bracket 60-475-212R.

## SNP-C03 Series - 30W AC/DC Single Output Enclosed Power Supply



### Features

- With ITE safety
- Only 1.142 inch height
- With power on LED
- With output adjustable trimmer
- Efficiency between 75% to 85%
- Operation from -20°C to 70°C by convection

Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SNP-C03B	3.3V	6A	30W	50mV	75%
SNP-C036	5V	6A	30W	50mV	82%
SNP-C037	12V	2.5A	30W	120mV	83%
SNP-C038	15V	2A	30W	150mV	84%
SNP-C039	24V	1.3A	30W	240mV	84%
SNP-C03T	48V	0.63A	30W	240mV	85%

### Specification

Input Voltage	85Vac to 264Vac
Inrush Current	less than 30A at 115Vac less than 60A at 230Vac, cold start, 25°C
Input Frequency	47Hz to 63Hz
Hold Up Time	16mS typical at rated load and 115Vac
Over Load Protection	Auto recovery
Short Circuit Protection	Auto recovery
Over Voltage Protection	Latch off
Cooling	Free air convection
Storage Temperature	-40°C to +75°C
EMI	FCC B; EN55022 B; EN55011 B
EMS	EN61000-4-2,-3,-4,-5,-6,-8,-11
Safety	UL 60950-1CSA C22.2 No. 60950-1EN 60950-1

## RS-35 Series - 35W Single Output AC-DC Enclosed Power Supply

### Applications

General electronic machinery or equipment  
Automation  
Test equipment  
Small scale LED signs



### Features

Universal AC input / Full range  
Short circuit/Over load/Over voltage protections  
Cooling by free air convection  
LED indicator for power on  
100% full load burn-in test  
All using 105°C long life electrolytic capacitors  
Withstand 300VAC surge input for 5 second  
High operating temperature up to 70°C  
Withstand 5G vibration test  
High efficiency, long life and high reliability



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
RS-35-3-3	3.3V	7A	23.1W	80mV	73%
RS-35-5	5V	7A	35W	80mV	77%
RS-35-12	12V	3A	36W	120mV	81%
RS-35-15	15V	2.4A	36W	120mV	83%
RS-35-24	24V	1.5A	36W	120mV	84%
RS-35-48	48V	0.8A	38.4W	200mV	84%

### Specification

Voltage Range	88 ~ 264Vac 125 ~ 373Vdc (Withstand 300Vac surge for 5sec. Without damage)
Frequency	47 ~ 63Hz
Input Current	0.8A/115Vac 0.55A/230Vac
Inrush Current	36A at 230Vac max., cold start
Leakage Current	<2mA at 240Vac
Setup, Rise Time	500ms, 30ms/230Vac 1200ms, 30ms/115Vac at full load
Hold Up Time	80mS/230Vac 15mS/115Vac at full load
Over Load Protection	110 ~ 150% rated output power Hiccup mode, recovers automatically after fault condition removed
Over Voltage Protection	Hiccup mode, recovers automatically after fault condition is removed
Working Temperature	-25°C to +70°C (Refer to output load de-rating curve)

### Description

The new RS-15 Series are 20% smaller than their 20w counterpart and are our most miniature AC/DC enclosed type switching power supplies that can provide 15W by only free air convection. RS-35 is fully RoHS compliant and all the electrolytic capacitors in the unit are rated in 105°C. RS-35 can also withstand 300VAC input surge for 5 seconds and 5G vibration meaning that is suitable for operation in harsh environments. Full output wattage can be provided up to 50°C and the highest operating temperature is as high as 70°C, with certain de-rating. Other standard functions include short circuit, overload, over voltage, and over temperature protections.

## SPS-035 Series - 35W Single Output Switching Power Supply



### Features

- Universal input
- Built-in EMI filter
- Low ripple noise
- No min. load requirement
- Output voltage  $\pm 10\%$  adjustment
- 100% 50°C burn-in test
- Over voltage, short circuit shut down & auto recovery



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPS-035-3.3	3.3V	9.0A	35W	50mV	68%
SPS-035-05	5.0V	7.0A	35W	50mV	70%
SPS-035-7.5	7.5V	4.7A	35W	70mV	74%
SPS-035-12	12V	3.0A	35W	100mV	76%
SPS-035-15	15V	2.4A	35W	100mV	76%
SPS-035-15M	18V	2.0A	35W	150mV	77%
SPS-035-24	24V	1.5A	35W	150mV	78%
SPS-035-24Q	28V	1.25A	35W	200mV	78%
SPS-035-48	48V	0.75A	35W	250mV	80%

### Specification

Input Voltage	85 to 264Vac 120 to 375Vdc
Inrush Current	30A max. At 115Vac input, full load 50A max. at 230Vac input, full load
Leakage Current	1.0mA max. at 264Vac input
Current	1.0A max. at 100Vac input, full load
Input Frequency	47 to 63Hz
Over Load Protection	105% to 180% of rated load, auto recovery
Short circuit protection	auto recovery
Cooling	Natural Cooling
Operating temperature	0°C to 70°C
Safety Approvals	Meets UL 1950, CSA22.2, TUV EN 60950, IEC 60950, EMKO-TSE
Packing	N.W. 0.35kg



## RD-35 Series - 35W Dual Output AC-DC Enclosed Power Supply

### Applications

General electronic machinery or equipment  
Automation  
Test equipment



### Features

Universal AC input  
Short circuit, over load, over voltage protections  
Cooling by free air convection  
LED indicator for power on  
100% full load burn-in test  
All using 105°C long life electrolytic capacitors  
Withstand 300VAC surge input for 5 second  
High operating temperature up to 70°C  
Withstand 5G vibration test  
High efficiency, long life and high reliability



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
RD-35A	5V	4A	32W	80mV	79%
	12V	1A		120mV	
RD-35B	5V	2.2A	35W	80mV	82%
	24V	1A		120mV	
RD-3513	14V	1.3A	35.1W	120mV	80%
	-14V	1.3A		120mV	

### Description

A highly efficient and reliable enclosed power supply, with a high operating temperature of -25~+70°C and cooling by free air convection. Built to withstand 300VAC surge input for 5 seconds and 5G vibrations. Overload, short circuit and over voltage protection with hiccup mode (recovering automatically after fault condition is removed).

## SPS-035-D Series - 35W Dual Output AC-DC Enclosed Power Supply



### Features

- Power ON with LED indicator
- Built in EMI filter, low ripple noise
- Over load, over voltage short circuit protection
- 100% 50° burn-in test
- UL, cUL, CB, CE approved



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPS-035-D1	+5V	4.0A	35W	50mV	75%
	+12V	1.5A		120mV	
SPS-035-D2	+5V	4.0A	35W	50mV	75%
	+24V	1.3A		240mV	
SPS-035-D3	+12V	1.5A	35W	120mV	76%
	-12V	1.5A		120mV	
SPS-035-D4	+15V	1.3A	35W	150mV	76%
	-15V	1.3A		200mV	

### Specification

Input Voltage	85~264 Vac or 120~375Vdc, universal full range
Frequency	47 ~ 63 Hz
Input Current	<1.0A @100Vac, full load condition
Inrush Current	<30A@115V / <50A@230Vac input, full load condition. Cold start at 25°C ambient
Leakage Current	<1.0mA@240Vac input
Over Load Protection	Over 105% ~ 180% of rating, recovers automatically after fault condition has been removed.
Short Circuit Protection	Shutdown, recovers automatically after fault condition has been removed.
Rise time	<20mS
Setup Time	<2.0Sec @115V, <0.8Sec @230V
Hold Up Time	>40mS@230V
Cooling	Natural Cooling
Operating Temperature	-10~70°C; De-rating: 45°C~70°C : 2.5%/°C
Storage Temperature	-10~+75°C
Operating Humidity	20% ~ 85% (non condensing)
Storage Humidity	10% ~ 95% (non condensing)
Safety Standards	UL 60950-1st, CSA C22.2 No.60950-1-03 1st approved.TUV EN 60950-1st, IEC 60950-1st, EMKO-TSE (74-SEC)207/94 standard
EMC	EN 55022 CLASS B, EN 61000-3-2, 3, FCC CFR 47 PART 15 CLASS B, CNS 13438 CLASS B. EN 55024: EN 61000-4-2, 3,4,5,6,8,11.
M.T.B.F.	472K hours



## SPS-035-ID Series - 35W Dual Output Enclosed Power Supply

### Applications

Industrial applications where isolated dual outputs are required



### Features

V1 & V2 output and isolated, V2 polarity can be positive or negative

Power On with LED indicator

Built in EMI filter, low ripple & noise

Over voltage protection: Shutdown and latch off

Overload and short circuit protection: Hiccup mode

100% full load burn in test

-20~+70°C operating temperature



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPS-035-ID1	5V	4A	35W	70mV	79%
		2.5A	35W	120mV	79%
SPS-035-ID2	5V	4A	35W	70mV	79%
		1.3A	35W	200mV	79%
SPS-035-ID8	12V	3A	36W	120mV	82%
		1.5A	36W	120mV	82%
SPS-035-ID9	15V	2.4A	36W	150mV	83%
		1.5A	36W	150mV	83%

### Description

The SPS-035 series is a highly efficient 35W dual output enclosed power supply with isolated outputs. The power supply can operate between -20~+70°C with cooling by free air convection and has protections such as over voltage, overload and short circuit.

## EPS-45-C Series - 45W Single Output Enclosed Switching Power Supply

### Applications

Factory automation

Electrical or mechanical equipment



### Features

Universal AC input/Full range

Optional L-bracket and cover

High efficiency up to 90%

Protections: Short circuit, overload and over voltage

Cooling by free air convection

2" x 4" compact size

LED indicator for power on

No load power consumption <0.3W



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
EPS-45-3-3-C	3.3V	8A	26.4W	80mV	80%
EPS-45-5-C	5V	8A	40W	80mV	82%
EPS-45-7-5-C	7.5V	5.4A	40.5W	100mV	84%
EPS-45-12-C	12V	3.75A	45W	120mV	87%
EPS-45-15-C	15V	3A	45W	150mV	88%
EPS-45-24-C	24V	1.9A	45.6W	240mV	89%
EPS-45-36-C	36V	1.25A	45W	280mV	89%
EPS-45-48-C	48V	1A	48W	300mV	90%

### Description

The EPS-45-C series is a 45W single output high efficiency AC/DC green enclosed switching power supply.

Possessing up to 90% of high efficiency the unit can be cooled from -30~+70°C ambient temperature which is required for operating in a closed loop system.

## RS-50 Series - 50W Single Output AC-DC Enclosed Power Supply

### Applications

General electronic machinery or equipment  
Automation  
Test equipment  
Small scale LED signs



### Features

Universal AC input / Full range  
Short circuit/Over load/Over voltage protections  
Cooling by free air convection  
LED indicator for power on  
100% full load burn-in test  
All using 105°C long life electrolytic capacitors  
Withstand 300VAC surge input for 5 second  
High operating temperature up to 70°C  
Withstand 5G vibration test  
High efficiency, long life and high reliability



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
RS-50-3-3	3.3V	10A	33W	80mV	72%
RS-50-5	5V	10A	50W	80mV	78%
RS-50-12	12V	4.2A	50.4W	120mV	81%
RS-50-15	15V	3.4A	51W	120mV	83%
RS-50-24	24V	2.2A	52.8W	120mV	84%
RS-50-48	48V	1.1A	52.8W	200mV	86%

### Specification

Input Voltage	88 ~ 264Vac 125 ~ 373Vdc (Withstand 300VAC surge for 5sec. without damage)
Input Current	1.3A at 115Vac 0.8A at 230Vac
Inrush Current	33A/230Vac, cold start
Leakage Current	<2mA at 240Vac
Input Frequency	47 ~ 63Hz
Hold Time	60ms/230Vac 14ms/115Vac at full load
Storage Temperature, Humidity	-40°C ~ +85°C, 10 ~ 95% RH
Set Up, Rise Time	500ms, 20ms/230Vac 1200ms, 30ms/115Vac at full load
Safety Standards	UL60950-1, TUV EN60950-1 Approved
Withstand Voltage	I/P-O/P:3KVac I/P-FG:1.5KVac O/P-FG:0.5KVac

### Description

The new RS-50 Series are 20% smaller than their 50W counterpart and are our most miniature AC/DC enclosed type switching power supplies that can provide 15W by only free air convection. RS-50 is fully RoHS compliant and all the electrolytic capacitors in the unit are rated in 105°C. RS-50 can also withstand 300VAC input surge for 5 seconds and 5G vibration meaning that is suitable for operation in harsh environments. Full output wattage can be provided up to 50°C and the highest operating temperature is as high as 70°C, with certain de-rating. Other standard functions include short circuit, overload, over voltage, and over temperature protections.

## SPS-G050 Series - 50W AC-DC High Reliability Enclosed Power Supply

### Applications

Logic control circuit designing  
 Automatic control systems  
 Industrial control systems  
 Test equipment  
 printers  
 POS systems  
 Display systems  
 Franking machines  
 Gambling machines



### Features

Green-mode design  
 No load <0.5W  
 High efficiency and high reliability  
 Built in EMI filter, low ripple noise  
 Over load, over voltage, short circuit protection  
 Output voltage  $\pm 10\%$  adjustment  
 100% full load burn-in test  
 -20°C~70°C Operating temperature  
 UL, cUL, TUV, CB, CE standard



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPS-G050-T1	5V	0.5A	50W	70mV	75%
	12V	0.2A		120mV	
	-12V	0A		150mV	
SPS-G050-T2	5V	0.5A	50W	70mV	75%
	12V	0.2A		120mV	
	-5V	0A		120mV	
SPS-G050-T3	5V	0.5A	51W	70mV	78%
	12V	0.2A		120mV	
	24V	0.1A		200mV	

### Specification

Input Voltage 88V ~ 264Vac or 125V ~ 375Vdc Universal full range  
 (Withstand 300VAC surge for 5sec. without damage)  
 Input Current <1.3A@100V ac input, full load condition  
 Input Frequency 47 ~ 63Hz  
 Inrush Current <30A@115V , <50A@230V ac input,  
 Cold start at 25°C ambient  
 Leakage Current <1.5mA@264V ac input  
 Rise Time <30mS  
 Hold Up Time >60mS@230V, full load condition  
 Set Up Time <1 Sec@100 ~ 240V ac

### Description

TUV & CB certification available Feb 09 UL certification available March 09 UL 60950-1, 2nd Edition TUV EN60950-1 : 2006 IEC 60950-1 : 2005

## RD-50 Series - 50W Dual Output AC-DC Enclosed Power Supply

### Applications

General electronic machinery or equipment  
Automation  
Test equipment



### Features

- Universal AC input
- Short circuit, over load, over voltage protections
- Cooling by free air convection
- LED indicator for power on
- 100% full load burn-in test
- All using 105°C long life electrolytic capacitors
- Withstand 300VAC surge input for 5 second
- High operating temperature up to 70°C
- Withstand 5G vibration test
- High efficiency, long life and high reliability



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
RD-50A	5V	6A	54W	80mV	79%
	12V	2A		120mV	
RD-50B	5V	4A	54W	80mV	80%
	24V	1.4A		150mV	

### Description

A highly efficient and reliable enclosed power supply, with a high operating temperature of -25~+70°C and cooling by free air convection. Built to withstand 300VAC surge input for 5 seconds and 5G vibrations. Overload, short circuit and over voltage protection with hiccup mode (recovering automatically after fault condition is removed).

## SPS-G050-D Series - 50W Dual Output AC-DC Enclosed Power Supply

### Applications

Programmable logic controller  
Automatic control systems  
Test equipment  
Printers  
POS systems  
Franking machines



### Features

Full range AC input  
Built in EMI filter, low ripple noise  
Over load, over voltage protection  
Short circuit shutdown and auto recovery  
100% full load burn-in test  
-20°C ~70°C Operating temperature  
UL, cUL, TUV, CB, CE approved



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPS-G050-D1	5V	6A	51W	70mV	79%
	12V	3A		120mV	
SPS-G050-D2	5V	6A	52W	70mV	80%
	24V	2A		200mV	

### Description

SPS-G050D Series are dual output power supplies with IC function, creating operating temperatures as low as -20°C. The input voltage range is from 88V ~ 264Vac or 125V ~ 375Vdc, making it suitable for worldwide use, and the output voltage is adjustable by 10%. Isolated output version, SPS-G050ID Series, is also available.



## SPS-G050-ID Series - 50W Isolated Dual Output AC-DC Enclosed PSU

### Applications

Programmable logic controller  
Automatic control systems  
Test equipment  
Printers  
POS systems  
Franking machines



### Features

Full range AC input  
Isolated outputs  
Built in EMI filter, low ripple noise  
Over load, over voltage protection  
Short circuit shutdown and auto recovery  
100% full load burn-in test  
-20°C ~70°C Operating temperature  
UL, cUL, TUV, CB, CE approved



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPS-G050-ID1	5V	6A	51W	70mV	79%
	12V	3A		120mV	
SPS-G050-ID2	5V	6A	52W	70mV	80%
	24V	2A		200mV	

### Description

SPS-G050ID Series are isolated dual output power supplies with IC function, creating operating temperatures as low as -20°C. The input voltage range is from 88V ~ 264Vac or 125V ~ 375Vdc, making it suitable for worldwide use, and the output voltage is adjustable by 10%.



## RID-50 Series - 50W Dual Isolated Output AC-DC Enclosed PSU

### Applications

General electronic machinery or equipment  
Automation  
Test equipment



### Features

Isolated output & ground  
Universal AC input  
Short circuit, over load, over voltage protections  
Cooling by free air convection  
LED indicator for power on  
100% full load burn-in test  
Using 105°C long life electrolytic capacitors  
Withstand 300VAC surge input for 5 seconds  
High operating temperature up to 70°C  
Withstand 5G vibration test  
High efficiency, long life and high reliability  
UL, cUL, TUV, CE & CB approvals



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
RID-50A	5V	6A	54W	80mV	80%
	12V	2A		120mV	
RID-50B	5V	4A	54W	80mV	81%
	24V	1.4A		150mV	

### Description

A highly efficient and reliable dual output enclosed power supply, with a high operating temperature of -25~+70°C and cooling by free air convection. Isolated output and ground for both channels. Built to withstand 300VAC surge input for 5 seconds and 5G vibrations. Overload, short circuit and over voltage protection with hiccup mode (recovering automatically after fault condition is removed).

## RT-50 Series - 50W Triple Output AC-DC Enclosed Power Supply

### Applications

General electronic machinery or equipment  
Automation  
Test equipment

### Features

Universal AC input / Full range  
Short circuit, over load, over voltage protections  
Cooling by free air convection  
LED indicator for power on  
100% full load burn-in test  
All using 105°C long life electrolytic capacitors  
Withstand 300VAC surge input for 5 seconds  
High operating temperature up to 70°C  
Withstand 5G vibration test  
High efficiency, long life and high reliability



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
RT-50A	5V	4A	46.5W	80mV	77%
	12V	2A		120mV	
	-5V	0.5A		100mV	
RT-50B	5V	4A	50W	80mV	77%
	12V	2A		120mV	
	-12V	0.5A		120mV	
RT-50C	5V	4A	50W	80mV	78%
	15V	2A		120mV	
	-15V	0.5A		120mV	
RT-50D	5V	3A	51W	80mV	80%
	24V	1A		150mV	
	12V	1A		120mV	

### Description

A highly efficient and reliable triple output enclosed power supply, with a high operating temperature of -25~+70°C and cooling by free air convection. Built to withstand 300VAC surge input for 5 seconds and 5G vibrations. Overload, short circuit and over voltage protection with hiccup mode (recovering automatically after fault condition is removed).

## SPS-G050-T Series - 50W Triple Output AC-DC Enclosed Power Supply

### Applications

Programmable logic controller  
Automatic control systems  
Test equipment  
Printers  
POS systems  
Franking machines



### Features

Full range AC input  
Built in EMI filter, low ripple noise  
Over load, over voltage protection  
Short circuit shutdown and auto recovery  
100% full load burn-in test  
-20°C ~70°C Operating temperature  
UL, cUL, TUV, CB, CE approved



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPS-G050-T1	5V	6A	50W	70mV	75%
	12V	2.5A		120mV	
	-12V	1A		150mV	
SPS-G050-T2	5V	6A	50W	70mV	75%
	12V	2.5A		120mV	
	-5V	1A		120mV	
SPS-G050-T3	5V	6A	51W	70mV	78%
	12V	2.5A		120mV	
	24V	2A		200mV	

### Specification

Input Voltage                    88V ~ 264Vac or 125V ~ 375Vdc Universal full range  
(Withstand 300VAC surge for 5sec. without damage)

Input Current                    <1.3A@100V ac input, full load condition

Input Frequency                47 ~ 63Hz

Inrush Current                  <30A@115V , <50A@230V ac input,  
Cold start at 25°C ambient

Leakage Current                <1.5mA@264V ac input

Rise Time                        <30mS

Hold Up Time                    >60mS@230V, full load condition

Set Up Time                     <1 Sec@100 ~ 240V ac

### Description

SPS-G050T Series are triple output power supplies with IC function, creating operating temperatures as low as -20°C. The input voltage range is from 88V ~ 264Vac or 125V ~ 375Vdc, making it suitable for worldwide use, and the output voltage is adjustable by 10%.

## RQ-50 Series - 50W Quad Output AC-DC Enclosed Power Supply

### Applications

General electronic machinery or equipment  
Automation  
Test equipment



### Features

Universal AC input / Full range  
 Protections: Short circuit/Over load/Over voltage  
 Cooling by free air convection  
 LED indicator for power on  
 100% full load burn-in test  
 All using 105°C long life electrolytic capacitors  
 Withstand 300VAC surge input for 5 second  
 High operating temperature up to 70°C  
 Withstand 5G vibration test  
 High efficiency, long life and high reliability



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
RQ-50B	5V	5A	46W	80mV	74%
	12V	1A	46W	120mV	
	-5V	0.5A	46W	100mV	
	-12V	0.5A	46W	80mV	
RQ-50C	5V	5A	50W	80mV	75%
	15V	1A	50W	120mV	
	-5V	0.5A	50W	100mV	
	-15V	0.5A	50W	80mV	
RQ-50D	5V	3A	53.4W	80mV	79%
	12V	1A	53.4W	120mV	
	24V	1A	53.4W	180mV	
	-12V	0.5A	53.4W	80mV	

### Description

A highly efficient and reliable quad output enclosed power supply, with a high operating temperature of -25~+70°C and cooling by free air convection. Built to withstand 300VAC surge input for 5 seconds and 5G vibrations. Overload, short circuit and over voltage protection with hiccup mode (recovering automatically after fault condition is removed).

## AD-55 Series - 55W Single Output PSU With Battery Charger

### Applications

Control panels  
UPS battery back-up



### Features

- Universal AC input range
- High Efficiency
- Low working temperature
- Soft start circuit
- Limiting AC surge current
- Short circuit, overload & over voltage protected
- Battery low protections
- 100% full load burn in test
- Built in EMI filter
- Fixed Switching frequency at 45KHz
- UL60950-1, TUV EN60950-1 Approved



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
AD-55A	14V	4A	51.38W	100mV	71%
	13.4V	0.23A			
AD-55B	28V	2A	54W	100mV	74%
	26.5V	0.16A			

### Description

AD-55 Series is a 55W single output AC/DC power supply with battery charger (UPS) Function that meets UL, TUV, CB & CE requirements. AD-55 Series also has standard features such as short circuit, over load and over load protections as well as optional battery low protections and alarm signals. Suitable applications include control panels, back-up systems.

## ADD-55 Series - 55W Dual Output Power Supply With Battery Charger



### Features

- Universal full range AC input
- Short circuit, over load & over voltage protections
- Battery low protection
- Cooling by free air convection
- 100% full load burn-in test
- Optional DC Alarm Signals
- Fixed switching frequency at 45KHz



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
ADD-55A	14V	2.5A	53W	100mV	71%
	5V	3A		100mV	
	13.4V	0.23A			
ADD-55B	28V	1.3A	55.12W	150mV	74%
	5V	3A		150mV	
	26.5V	0.16A			



## SPS-M060 Series - AC-DC Single Output Enclosed Medical Power Supply



### Features

Green-mode designing, meet IEA standard <math><0.75\text{W}</math> (standby state)

Power ON with LED indicator

Over load, over voltage and short circuit protection

Output voltage  $\pm 10\%$  adjustment

Non min. load requirement

Meet UL, 2601-1 medical standard



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPS-M060-05	5V	10A	50W	50mV	74%
SPS-M060-12	12V	5A	60W	120mV	77%
SPS-M060-15	15V	4A	60W	150mV	77%
SPS-M060-24	24V	2.5A	60W	240mV	80%
SPS-M060-30	30V	2A	60W	300mV	80%
SPS-M060-48	48V	1.3A	60W	300mV	80%

### Description

This 60 Watt Medical Application Unit meets the UL 2601-4 medical standard and is currently going through approvals for cUL/UL, CB and CE. For more details please click through to the specification or complete an enquiry form for a member of our sales team to contact you.



## SPS-S060 Series - 60W Single Output AC-DC S Series Enclosed PSU

### Applications

19" Rack-Mount (Industrial computer system)  
Industrial control systems



### Features

- Light weight, compact size
- Green-mode designing, meet IEA standard <math><0.75W</math> (standby state)
- Over load, over voltage & short circuit protection
- Output voltage  $\pm 10\%$  adjustment
- Built-in EMI filter, low ripple noise
- 100% 50° burn-in test
- UL, cUL, CB, CE certified; meets TUV standard (48V CE only)



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPS-S060-05	5V	10A	50W	50mV	74%
SPS-S060-7-5	8V	7A	50W	75mV	75%
SPS-S060-12	12V	7A	60W	120mV	77%
SPS-S060-15	15V	4A	60W	150mV	78%
SPS-S060-24	24V	2.5A	60W	240mV	80%
SPS-S060-48	48V	1.25A	60W	480mV	80%

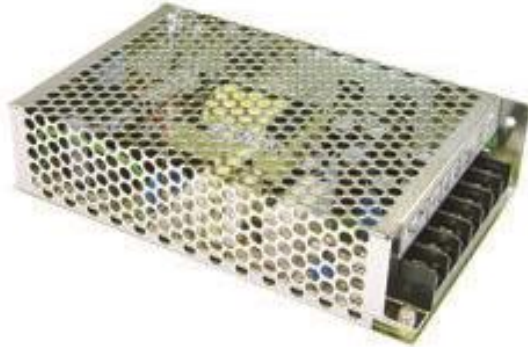
### Specification

Input Voltage	Universal input 85~264 VAC or 120~375VDC
AC Frequency	47 ----- 63 Hz
Input Current	<math><1.8A</math>@100V AC input, full load condition
Inrush Current	<math><30A</math>@115V / <math><60A</math>@230V AC input. Cold start at 25°C ambient
Leakage Current	<math><1.5mA</math>@264V AC input
Rise time	<math><20mS</math>
Hold up time	>16.7mS@115V, >60mS@230V
Setup time	Typically:800mS@115V, 300mS@230V, AC INPUT
Over Load Protection	Shutdown when load over 105% ~ 180% of rating, recovers automatically after fault condition has been
Short Circuit	Shutdown, recovers automatically after fault condition has been removed
Cooling	Natural Cooling
Temperature	Operating: -25~70°C; De-rating: -10°C ~ -25°C: 3.0%/°C / 45°C ~ 70°C: 3

## IT-60 Series - 60W Triple Isolated Output Switching Power Supply

### Applications

General electronic machinery



### Features

- Isolated output & GND for Ch1,2,3
- Universal AC input / Full range
- Protections: Short circuit / Over load/ Over voltage
- LED indicators for power On
- 100% full load burn-in test
- Fixed switching frequency at 67KHz



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
IT-60D	5V	3A	58.2W	80mV	76%
	12V	1A		120mV	
	24V	1.4A		240mV	
IT-60F	5V	3A	58.2W	80mV	76%
	15V	1A		150mV	
	24V	1.3A		240mV	

### Description

The IT-60 series is a highly efficient and reliable power supply with isolated triple output and universal AC input. Protections including short circuit, overload and over voltage; Fixed switching frequency at 67KHz.

## IQ-60 Series - 60W Isolated Quad Output Switching Power Supply

### Applications

General electronic equipment



### Features

- Isolated output & GND for CH1, CH2 & CH3, CH4
- Universal AC input/full range
- Protections: Short circuit/Overload/Over voltage
- LED indicator for power on
- 100% full load burn-in test
- Fixed switching frequency at 67KHz



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
IQ-60D	5V	3A	60W	80mV	76%
	12V	0.5A		120mV	
	-12V	0.5A		120mV	
	24V	1.3A		240mV	
IQ-60F	5V	3A	60W	80mV	76%
	15V	0.5A		150mV	
	-15V	0.5A		150mV	
	24V	1.25A		240mV	

### Description

The IQ-60 Series is an isolated quad output switching power supply with universal AC input. Protections including short circuit, overload and over voltage, including an LED indicator for power on. Fixed switching frequency at 67KHz.

## SPS-060P Series - 60W~72W Single Output Switching Power Supply



### Features

- Universal input
- PFC function
- Built-in EMI filter
- Low ripple noise
- No min. load requirement
- Output voltage  $\pm 10\%$  adjustment
- 100% 50°C burn-in test
- Over voltage, over load protection



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPS-070P-48	48V	1.5A	72W	300mV	80%
SPS-060P-3.3	3.3V	15.0A	49.5W	50mV	67%
SPS-060P-05	5.0V	12.0A	60W	50mV	72%
SPS-070P-12	12V	6.0A	72W	120mV	75%
SPS-070P-15	15V	4.8A	72W	150mV	76%
SPS-070P-15M	18V	4.0A	72W	180mV	77%
SPS-070P-24	24V	3.0A	72W	240mV	78%
SPS-070P-24Q	28V	2.6A	72.8W	280mV	79%

### Specification

Input Voltage	85 to 264Vac 120 to 375Vdc
Input Frequency	47 to 63Hz
Input Current	1.8A max. at 100Vac input, full load
Inrush Current	30A max. at 115Vac input, full load 60A max. at 230Vac input, full load
Leakage current	1.5mA max. at 264Vac input
Over load protection	105% to 180% of rated load, auto recovery
Short circuit protection	auto recovery
Rise Time	20mS max
Cooling	Natural Cooling
Operating temperature	0°C to 70°C
Hold up time	16.7mS min. at 115Vac input 80mS min. at 230Vac input
Set up time	800mS typ. at 115Vac input 300mS typ. at 230Vac input

## SPS-M060-D Series - 60W Dual Output AC-DC For Medical Enclosed Power S



### Features

- Power ON with LED indicator
- Over load, over voltage and short circuit protection
- Built in EMI filter, low ripple noise
- Built-in long life ball bearing fan
- Meet UL, 2601-1 medical standard



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPS-M060-D1	5V	10A	60W	50mV	75%
	12V	3A		120mV	
SPS-M060-D2	5V	6A	60W	120mV	86%
	24V	2.5A		120mV	
SPS-M060-D3	12V	5A	60W	120mV	77%
	-12V	2.5A		120mV	
SPS-M060-D4	15V	4A	60W	150mV	77%
	-15V	2A		150mV	

**SPS-060PD Series - 60W Dual Output PFC AC-DC Enclosed Power Supply****Features**

Power ON with LED indicator  
 Built in EMI filter, low ripple noise  
 Over load, over voltage, short circuit protections  
 100% 50° burn-in test  
 Power Factor Correction function  
 UL, cUL, TUV, CB, CE approved



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPS-060PD1	5V	8A	60W	50mV	75%
	12V	4A		120mV	
SPS-060PD2	5V	6A	60W	50mV	75%
	24V	2.2A		240mV	
SPS-060PD3	12V	3.43A	60W	120mV	75%
	-12V	3.43A		120mV	
SPS-060PD4	15V	3A	60W	150mV	75%
	-15V	3A		150mV	

**Specification**

Input Voltage	88V 85 ~ 264Vac 120 ~ 375Vdc
Frequency	47 ~ 63Hz
Input Current	<1.8A/100Vac input, cold start
Inrush Current	<30A/115V <60A/230Vac input, cold start
PFC	Meets IEC 1000-3-2 Class A standard
Leakage Current	<1.5mA/264Vac input
Rise Time	<20mS
Hold Up Time	>16.7mS/115V, >80mS/230V
Setup Time	<3Sec/115V/60Hz; <1Sec/230V/50Hz
Operating Temperature	-10°C ~ 70°C; De-rating: 42°C ~ 70°C : 2.0%/°C
Operating Humidity	20% ~ 85% (non condensing)
M.T.B.F.	260K hours



**SPS-060P-ID Series - 60W Dual Isolated Output AC/DC PFC Enclosed Switch Mode Power Supply****Applications**

Programmable logic controllers  
 Automatic controls  
 Industrial controls  
 Test equipment  
 Motor-Base machinery

**Features**

Isolated outputs  
 High Reliability and Efficiency  
 Power on LED indicator  
 Built-in EMI filter  
 Low ripple noise  
 Over voltage, over load, short circuit protection  
 First output voltage adjustable  $\hat{A}\pm 10\%$  on ID5 & ID6  
 100% full load burn in test  
 -20°C to 70°C operating temperature  
 UL, cUL, TUV, CB & CE approved



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPS-060P-ID1	5V	8A	60W	70mV	76%
	12V	4A		120mV	
SPS-060P-ID2	5V	6A	60W	70mV	77%
	24V	2.2A		240mV	
SPS-060P-ID5	12V	5A	60W	120mV	77%
	5V	3A		70mV	
SPS-060P-ID6	24V	2.5A	60W	240mV	78%
	5V	3A		70mV	

**Description**

SPS-060P-ID is a dual isolated output enclosed switch mode power supply range with PFC function. These high reliability enclosed power supplies have universal full range input voltage and wide range operating temperatures of -20°C to 70°C. The primary output voltage of the ID5 & ID6 models is also adjustable by  $\pm 10\%$



**SPS-060P-IT Series - 60W Triple Isolated Output AC/DC PFC Enclosed Switch Mode Power Supply****Applications**

Programmable logic controllers  
 Automatic controls  
 Industrial controls  
 Test equipment  
 Motor-Base machinery

**Features**

All outputs are isolated outputs  
 Output 2 & 3 have polarity option (+ or -)  
 High Reliability and Efficiency  
 Power on LED indicator  
 Built-in EMI filter  
 Low ripple noise  
 Over voltage, over load, short circuit protection  
 100% full load burn in test  
 -20°C to 70°C operating temperature  
 UL, cUL, TUV, CB & CE approved



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPS-060P-IT1	5V	8A	60W	70mV	75%
	12V	4A		120mV	
	-5V	1A		100mV	
SPS-060P-IT2	5V	7A	60W	70mV	76%
	12V	4A		120mV	
	-12V	1A		150mV	
SPS-060P-IT3	5V	7A	60W	70mV	76%
	12V	3A		150mV	
	-15V	1A		200mV	
SPS-060P-IT4	5V	6A	60W	70mV	78%
	12V	2A		120mV	
	24V	1.2A		200mV	

**Description**

SPS-060P-IT is a triple isolated output enclosed switch mode power supply range with PFC function. These high reliability enclosed power supplies have universal full range input voltage and wide range operating temperatures of -20°C to 70°C. The second & third output voltages can also be set as positive or negative.

## SPS-060PT Series - 60W Triple Output AC-DC Enclosed Power Supply



### Features

- Power ON with LED indicator
- Built-in EMI filter, low ripple noise
- PFC function optional
- Over load, over voltage protection
- Short circuit shutdown and Auto recovery
- 100% 50° burn-in test.
- UL, cUL, TUV, CB, CE approved



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPS-060PT1	5V	8A	60W	50mV	74%
	12V	4A		120mV	
	-5V	1A		100mV	
SPS-060PT2	5V	7A	60W	50mV	74%
	12V	4A		120mV	
	-12V	1A		150mV	
SPS-060PT3	5V	7A	60W	50mV	74%
	15V	3A		150mV	
	-15V	1A		200mV	
SPS-060PT4	5V	6A	60W	50mV	74%
	12V	2A		120mV	
	24V	1.2A		200mV	

## SPS-060P-Q Series - 60W Quad Output AC-DC PFC Enclosed Power Supply

### Applications

Programmable logic controllers  
 Automatic controls  
 Industrial controls  
 Test equipment  
 POS systems



### Features

Universal input AC 85~264V or DC 120~375V  
 High reliability and high efficiency  
 Power ON with LED indicator  
 Built-in EMI filter, low ripple noise  
 Over voltage protection  
 Over load & short circuit protection  
 100% full load burn-in test  
 -20°C to 70°C operating temperature  
 UL, cUL, TUV, CB, CE approved



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPS-060P-Q1	5V	7A	60W	70mV	75%
	12V	3A		120mV	
	-5V	1A		100mV	
	-12V	1A		240mV	

### Description

SPS-060P-Q is a quad output AC/DC enclosed power supply with universal input of PWM IC design. Standard features include built in PFC, wide operating temperatures of -20°C to +70°C and over voltage, Over load & short circuit protections.

## RD-65 Series - 65W Dual Output AC-DC Enclosed Power Supply

### Applications

General electronic machinery or equipment  
Automation  
Test equipment



### Features

- Universal AC input / Full range
- Short circuit, over load, over voltage protections
- Cooling by free air convection
- LED indicator for power on
- 100% full load burn-in test
- All using 105°C long life electrolytic capacitors
- Withstand 300VAC surge input for 5 second
- High operating temperature up to 70°C
- Withstand 5G vibration test
- High efficiency, long life and high reliability



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
RD-65A	5V	6A	66W	80mV	79%
	12V	3A		120mV	
RD-65B	5V	4A	68W	80mV	78%
	24V	2A		150mV	

### Description

A highly efficient and reliable enclosed power supply, with a high operating temperature of -25~+70°C and cooling by free air convection. Built to withstand 300VAC surge input for 5 seconds and 5G vibrations. Overload, short circuit and over voltage protection with hiccup mode (recovering automatically after fault condition is removed).

## RID-65 Series - 65W Dual Isolated Output AC-DC Switching Power Supply

### Applications

General electronic machinery or equipment  
Automation  
Test equipment



### Features

- Isolated output & ground
- Universal AC input
- Short circuit, over load, over voltage protections
- Cooling by free air convection
- LED indicator for power on
- 100% full load burn-in test
- All using 105°C long life electrolytic capacitors
- Withstand 300VAC surge input for 5 seconds
- High operating temperature up to 70°C
- Withstand 5G vibration test
- High efficiency, long life and high reliability
- UL, cUL, TUV, CE & CB approvals



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
RID-65A	5V	6A	66W	80mV	81%
	12V	3A		120mV	
RID-65B	5V	4A	68W	80mV	82%
	24V	2A		150mV	
	24V	2A		150mV	

### Description

A highly efficient and reliable dual output enclosed power supply, with a high operating temperature of -25~+70°C and cooling by free air convection. Isolated output and ground for both channels. Built to withstand 300VAC surge input for 5 seconds and 5G vibrations. Overload, short circuit and over voltage protection with hiccup mode (recovering automatically after fault condition is removed).

## RT-65 Series - 65W Triple Output AC-DC Enclosed Power Supply

### Applications

General electronic machinery or equipment  
Automation  
Test equipment



### Features

- Universal AC input / Full range
- Short circuit, over load, over voltage protections
- Cooling by free air convection
- LED indicator for power on
- 100% full load burn-in test
- All using 105°C long life electrolytic capacitors
- Withstand 300VAC surge input for 5 seconds
- High operating temperature up to 70°C
- Withstand 5G vibration test
- High efficiency, long life and high reliability



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
RT-65A	5V	6A	66.1W	80mV	77%
	12V	3A		120mV	
	-5V	0.5A		80mV	
RT-65B	5V	6A	65W	80mV	77%
	12V	3A		120mV	
	-12V	0.5A		80mV	
RT-65C	5V	5A	66W	80mV	78%
	15V	2.2A		120mV	
	-15V	0.5A		80mV	
RT-65D	5V	4A	68W	80mV	79%
	24V	2A		150mV	
	12V	1A		120mV	

### Description

A highly efficient and reliable triple output enclosed power supply, with a high operating temperature of -25~+70°C and cooling by free air convection. Built to withstand 300VAC surge input for 5 seconds and 5G vibrations. Overload, short circuit and over voltage protection with hiccup mode (recovering automatically after fault condition is removed).



## RQ-65 Series - 65W Quad Output AC-DC Enclosed Power Supply

### Applications

General electronic machinery or equipment

Automation

Test equipment



### Features

Universal AC input / Full range

Protections: Short circuit/Over load/Over voltage

Cooling by free air convection

LED indicator for power on

100% full load burn-in test

All using 105°C long life electrolytic capacitors

Withstand 300VAC surge input for 5 second

High operating temperature up to 70°C

Withstand 5G vibration test

High efficiency, long life and high reliability



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
RQ-65B	5V	6A	62.5W	80mV	76%
	12V	2A	62.5W	120mV	
	-5V	0.5A	62.5W	80mV	
	-12V	0.5A	62.5W	80mV	
RQ-65C	5V	5A	65W	80mV	76%
	15V	2A	65W	120mV	
	-5V	0.5A	65W	80mV	

### Description

A highly efficient and reliable quad output enclosed power supply, with a high operating temperature of -25~+70°C and cooling by free air convection. Built to withstand 300VAC surge input for 5 seconds and 5G vibrations. Overload, short circuit and over voltage protection with hiccup mode (recovering automatically after fault condition is removed).

## EPS-65-C Series - 65W Single Output Enclosed Switching Power Supply

### Applications

Factory Automation

Electrical or mechanical equipment



### Features

Universal AC input/Full range

Optional L-Bracket and cover

High efficiency up to 90%

Protections: Short circuit/Overload/Over voltage

Cooling by free air convection

2" x 4" compact size

LED indicator for power on

No load power consumption <0.3W



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
EPS-65-3-3-C	3.3V	11A	36.3W	80mV	80%
EPS-65-5-C	5V	11A	55W	80mV	82%
EPS-65-7-5-C	7.5V	8A	60W	100mV	84%
EPS-65-12-C	12V	5.42A	65.04W	120mV	86%
EPS-65-15-C	15V	4.34A	65.1W	150mV	87%
EPS-65-24-C	24V	2.71A	65.04W	240mV	88%
EPS-65-36-C	36V	1.81A	72W	280mV	89%
EPS-65-48-C	48V	1.36A	72W	300mV	90%

### Description

The EPS-65-C series is a 65W single output high efficiency AC/DC green open frame switching power supply. Possessing up to 90% of high efficiency the unit can be cooled from -30~+70°C ambient temperature which is required for operating in a closed loop system.

## SPS-070 Series - 72W Single Output NON PFC Switching Power Supply

### Applications

Logic control circuit designing  
Automatic control systems  
Industrial control systems  
Test equipment  
Printers  
POS systems  
Electronic voting machines  
Franking machines  
Gambling machines



### Features

Green-mode design  
No load power consumption <0.75W  
Universal input  
Output voltage  $\pm 10\%$  adjustment  
100% full load burn-in test  
Over voltage, over load, short circuit protections  
-20°C to 70°C operating temperature  
Power On with LED indicator  
UL, cUL, TUV, CB, CE Approvals



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPS-070-3-3	3.3V	15A	50W	50mV	73%
SPS-070-05	5V	12A	60W	50mV	76%
SPS-070-12	12V	6A	72W	120mV	81%
SPS-070-15	15V	5A	72W	150mV	82%
SPS-070-24	24V	3A	72W	150mV	84%
SPS-070-48	48V	2A	72W	150mV	86%

### Description

SPS-070 Series is a 72W single output enclosed switching power supply that offers' 3.3V, 5V, 12V, 15V, 24V & 48V output options. Which are adjustable by  $\pm 10\%$ . With no load power consumption <0.75W and efficiency up to 86% SPS-070 also complies to new CE directive LVD 2006/95/EC and EMC 2004/108/EC and UL, cUL, CB EN60950-1 approvals

## SPS-070P Series - 72W Single Output PFC Switching Power Supply

### Applications

Logic control circuit designing  
 Automatic control systems  
 Industrial control systems  
 Test equipment  
 Printers  
 POS systems  
 Electronic voting machines  
 Franking machines  
 Gambling machines



### Features

Green-mode design  
 No load power consumption <0.75W  
 Universal input  
 PFC function  
 Output voltage  $\pm 10\%$  adjustment  
 100% full load burn-in test  
 Over voltage, over load, short circuit protections  
 -20°C to 70°C operating temperature  
 Power On with LED indicator  
 UL, cUL, TUV, CB, CE Approvals



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPS-070P-3-3	3.3V	15A	50W	50mV	73%
SPS-070P-05	5V	12A	60W	50mV	76%
SPS-070P-12	12V	6A	72W	120mV	81%
SPS-070P-15	15V	5A	72W	150mV	82%
SPS-070P-24	24V	3A	72W	150mV	84%
SPS-070P-48	48V	2A	72W	150mV	86%

### Specifications

Input Voltage: 85~264 VAC or 120~375VDC, universal input  
 Input frequency: 47 ~ 63Hz  
 Input Current: <1.8A max at 100VAC input, full load condition  
 Inrush Current: <30A@115V / <60A@230VAC input  
 Cold start 25°C ambient  
 Leakage Current: <1.5mA@264VAC input  
 Rise time: <20mS  
 Over Load Protection: Over 105% ~ 150% of rating, recovers automatically after fault condition has been removed.  
 Short Circuit Protection: Shutdown, recovers automatically after fault condition has been removed  
 Operating Temperature: -20°C ~ 70°C; De-rating 45°C ~ 50°C : 2.0%/°C

### Description

SPS-070P Series is a 72W single output PFC Function enclosed switching power supply that offers 3.3V, 5V, 12V, 15V, 24V & 48V output options. Which are adjustable by  $\pm 10\%$ . With no load power consumption <0.75W and efficiency up to 86% SPS-070P also complies to EN61000-3-2 Class A, new CE directive LVD 2006/95/EC and EMC 2004/108/EC and UL, cUL, CB EN60950-1 approvals

## SPS-075 Series - AC-DC Single Output Enclosed Power Supply



### Features

- 85V to 132 V or 170V to 264V Selected by switch
- Built in EMI filter, low ripple noise
- Over load, over voltage, short circuit protection
- Output voltage  $\pm 10\%$  adjustment
- Non min load requirement
- 100% 50° burn-in test
- Meets UL, cUL, TUV, CB, CE standard



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPS-075-3-3	3.3V	18A	75W	50mV	70%
SPS-075-05	5V	15A	75W	50mV	72%
SPS-075-7-5	8V	10A	75W	100mV	73%
SPS-075-10	10V	8A	75W	100mV	74%
SPS-075-12	12V	6.3A	75W	120mV	75%
SPS-075-15	15V	5A	75W	150mV	76%
SPS-075-18	18V	4.2A	75W	180mV	77%
SPS-075-24	24V	3.2A	75W	240mV	78%
SPS-075-28	28V	3A	75W	280mV	79%
SPS-075-48	48V	2A	75W	480mV	80%



## RS-75 Series - 75W Single Output AC-DC Enclosed Power Supply

### Applications

General electronic machinery or equipment  
Automation  
Test equipment  
Small scale LED signs



### Features

Universal AC input / Full range  
Short circuit, over load, over voltage protections  
Cooling by free air convection  
LED indicator for power on  
100% full load burn-in test  
All using 105°C long life electrolytic capacitors  
Withstand 300VAC surge input for 5 second  
High operating temperature up to 70°C  
Withstand 5G vibration test  
High efficiency, long life and high reliability



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
RS-75-5		12A	60W	80mV	76%
RS-75-3-3	3.3V	15A	50W	80mV	71%
RS-75-12	12V	6A	72W	120mV	81%
RS-75-15	15V	5A	75W	120mV	82%
RS-75-24	24V	3.2A	77W	120mV	85%
RS-75-48	48V	2A	77W	200mV	86%

### Specification

Input Voltage	88 ~ 264Vac 125 ~ 373Vdc
Input frequency	47 ~ 63Hz
Input Current	2A/115Vac 1.2A/230Vac
Inrush Current	40A/230Vac cold start
Leakage Current	<2mA / 240Vac
Storage Temperature, Humidity	-40°C ~ +85°C, 10 ~ 95% RH
Working Humidity	20 ~ 90% RH non-condensing
Temperature Coefficient	±0.03%/°C (0~50°C)
Over Load Protection	110 ~ 150% rated output power Hiccup mode, recovers automatically after Fault condition is removed
Over Voltage Protection	Hiccup mode, recovers automatically after fault condition is removed
MTBF	265Khrs min. MIL-HDBK-217F (25°C)

### Description

The new RS-75 Series are 20% smaller than their 75W counterpart and are our most miniature AC/DC enclosed type switching power supplies that can provide 75W by only free air convection. RS-75 is fully RoHS compliant and all the electrolytic capacitors in the unit are rated in 105°C. RS-75 can also withstand 300VAC input surge for 5 seconds and 5G vibration meaning that is suitable for operation in harsh environments. Full output wattage can be provided up to 50°C and the highest operating temperature is as high as 70°C, with certain de-rating. Other standard functions include short circuit, overload, over voltage, and over temperature protections.



## SP-75 Series - 75W Single Output Switching Power Supply

### Applications

General electronic equipment  
Automation  
Test equipment



### Features

Universal AC input/Full range  
Built-in active PFC function, PF>0.93  
Protections: Short circuit/Overload/Over voltage  
Built-in constant current limiting circuit  
Low profile: 33mm thickness  
LED indicator for power on  
100% full load burn-in test  
Fixed switching frequency at PFC:67KHz PWM:134KHz



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SP-75-3-3	3.3V	15A	50W	80mV	68%
SP-75-5	5V	15A	75W	80mV	72%
SP-75-7-5	8V	10A	75W	80mV	74%
SP-75-12	12V	6.3A	76W	80mV	77%
SP-75-13-5	14V	6A	76W	80mV	78%
SP-75-15	15V	5A	75W	80mV	79%
SP-75-24	24V	3.2A	77W	100mV	80%
SP-75-27	27V	3A	76W	100mV	80%
SP-75-48	48V	2A	77W	100mV	80%

### Description

The SP-75 series is a single output switching power supply with universal AC input. This power supply has a low profile of 33mm and built-in constant current limiting circuit. Protections including short circuit, overload and over voltage. With a fixed switching frequency at PFC: 67KHz, PWM: 134KHz enabling designs to avoid interference with system clock frequencies.

## HRP-75 Series - 75W Single Output AC-DC Enclosed Power Supply with PFC

### Applications

General electronics

Factory automation

Moving signs

LED displays

Test and measurement equipment

electrical and mechanical industry



### Features

Universal AC input

Built-in active PFC function >0.9

No load power consumption <0.5W

Short circuit, over load, over voltage, over temperature protections

Withstand 300VAC surge input for 5 seconds

Cooling by free air convection

1U low profile 38mm

Built-in remote on/off control



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
HRP-75-3-3	3.3V	15A	50W	80mV	77%
HRP-75-5	5V	15A	75W	80mV	82.5%
HRP-75-7-5	8V	10A	75W	100mV	84%
HRP-75-12	12V	6.3A	76W	120mV	87%
HRP-75-15	15V	5A	75W	150mV	88%
HRP-75-24	24V	3.2A	77W	150mV	88.5%
HRP-75-36	36V	2.1A	76W	200mV	89%
HRP-75-48	48V	2A	77W	240mV	89%

### Description

HRP-75 Series are a 75W miniature high reliability ac/dc enclosed power supply range that has many energy saving features to help the end user equipment comply with the requirements of energy star and EuP.

## SPS-G075 Series - 75W Single Output Green Mode Enclosed Power Supply

**Applications:** Logic control circuit designing, Industrial control systems, POS systems, Electronic voting machines  
 Franking machines, Gambling machines



### Features

- Green-mode designing, no load < 0.5W
- High efficiency and high reliability
- Built in EMI filter, low ripple noise
- Over load, over voltage, short circuit protection
- Output voltage  $\pm 10\%$  adjustment
- 100% full load burn-in test
- 20°C to +70°C operating temperature



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPS-G075-05	5V	12A	60W	70mV	77%
SPS-G075-12	12V	6A	72W	120mV	82%
SPS-G075-15	15V	5A	75W	150mV	83%
SPS-G075-24	24V	3.2A	77W	150mV	84%
SPS-G075-30	30V	2.5A	75W	200mV	86%
SPS-G075-48	48V	2A	77W	200mV	86%
SPS-G075-T4B	5V	8A	68W	70mV	78%
	15V	3A		120mV	
	-15V	1A		100mV	

### Specification

Input Voltage	88V ~ 264Vav or 125V ~ 375Vdc
Input frequency	47 ~ 63Hz
Input Current	<1.8A@100Vac input, full load condition
Inrush Current	<30A@115V , <50A@230Vav input, Cold start at 25°C ambient
Leakage Current	<1.5mA@264Vac input
Rise Time	<30mS
Hold Up Time	>60mS@230V, full load condition
Over Voltage Protection	Shutdown, re-power on to recover
Over Load Protection	Over 105%~ 150% of rating, recovers automatically after fault condition has been removed.
Short Circuit Protection	Shutdown, recovers automatically after fault condition has been removed.
Operating Temperature	-20°C ~ +70°C ; De-rating: 45°C ~ 70°C: 2.5%/°C
Cooling	Natural cooling
Operating Humidity	20% ~ 85% (non condensing)

### Description

SPS-G075 Series are single output Green Mode Designed enclosed power supplies. With no load power consumption levels less than 0.5Watts, operating temperatures from -20°C to +70°C and efficiency up to 86% SPS-G075 is an ideal power supply for applications with environmental protection requirements.

## RSP-75 Series - 75W PFC Function Single Output Enclosed Power Supplies

### Applications

Industrial automation system  
 Mechanical equipment  
 Electrical equipment  
 Household appliances  
 Instrumentation



### Features

Universal 85-264VAC input  
 Built-in constant current limiting circuit  
 1U low profile  
 Remote on-off control  
 Built-in active PFC function  
 Cooling via free air convection



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
RSP-75-3-3	3.3V	15A	49.5W	80mV	76%
RSP-75-5	5V	15A	75W	80mV	82%
RSP-75-7-5	7.5V	10A	75W	80mV	84%
RSP-75-12	12V	6.3A	75.6W	120mV	85%
RSP-75-13-5	13.5V	5.6A	75.6W	120mV	85%
RSP-75-15	15V	5A	75W	120mV	86%
RSP-75-24	24V	3.2A	76.8W	120mV	87%
RSP-75-27	27V	2.8A	75.6W	120mV	88%
RSP-75-48	48V	1.6A	76.8W	200mV	89%

### Description

RSP-75 Series are 1U low profile 75W PFC function enclosed switching power supplies, offering high efficiency levels of 89%. The range has a fanless design with built-in constant current limiting circuit, remote on/off control and protections including short circuit, over load and over voltage. Output options for RSP-75 Series include 3.3V, 5V, 7.5V, 12V, 13.5V, 15V, 24V, 27V & 48V models.

## SPS-G075-D Series - 75W Dual Output AC-DC Enclosed Power Supply

### Applications

Programmable logic controller  
Automatic control systems  
Test equipment  
Printers  
POS systems  
Franking machines



### Features

Full range AC input  
Built in EMI filter, low ripple noise  
Over load, over voltage protection  
Short circuit shutdown and auto recovery  
100% full load burn-in test  
-20°C ~70°C Operating temperature  
UL, cUL, TUV, CB, CE approved



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPS-G075-D1	5V	8A	68W	70mV	78%
	12V	5A		120mV	
SPS-G075-D2	5V	8A	68W	70mV	79%
	24V	2.5A		200mV	

### Description

SPS-G075-D Series are dual output power supplies with IC function, creating operating temperatures as low as -20°C. The input voltage range is from 88V ~ 264Vac or 125V ~ 375Vdc, making it suitable for worldwide use. Isolated output version, SPS-G075-ID Series, is also available.

## SPS-G075-ID Series - 75W Isolated Dual Output AC-DC Enclosed PSU

### Applications

Programmable logic controller  
Automatic control systems  
Test equipment  
Printers  
POS systems  
Franking machines



### Features

Output 1 & 2 isolated  
Full range AC input  
Built in EMI filter, low ripple noise  
Over load, over voltage protection  
Short circuit shutdown and auto recovery  
100% full load burn-in test  
-20°C ~70°C Operating temperature  
UL, cUL, TUV, CB, CE approved



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPS-G075-ID1	5V	8A	68W	70mV	78%
	12V	5A		120mV	
SPS-G075-ID2	5V	8A	68W	70mV	79%
	24V	2.5A		200mV	

### Description

SPS-G075-ID Series are dual isolated output power supplies with IC function, creating operating temperatures as low as -20°C. The input voltage range is from 88V ~ 264Vac or 125V ~ 375Vdc, making it suitable for worldwide use.



## SPS-G075-T Series - 75W Triple Output AC-DC Enclosed Power Supply

### Applications

Programmable logic controller  
Automatic control systems  
Test equipment  
Printers  
POS systems  
Franking machines



### Features

Full range AC input  
Built in EMI filter, low ripple noise  
Over load, over voltage protection  
Short circuit shutdown and auto recovery  
100% full load burn-in test  
-20°C ~70°C Operating temperature  
UL, cUL, TUV, CB, CE approved



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPS-G075-T1A	5V	8A	65W	70mV	76%
	12V	3A		120mV	
	-5V	1A		100mV	
SPS-G075-T1B	5V	8A	65W	70mV	78%
	12V	3A		120mV	
	-12V	1A		100mV	
SPS-G075-T3	5V	8A	68W	70mV	78%
	12V	3A		120mV	
	24V	2A		200mV	
SPS-G075-T4A	5V	8A	68W	70mV	78%
	15V	3A		120mV	
	24V	2A		200mV	

### Description

SPS-G075T Series are triple output power supplies with IC function, creating operating temperatures as low as -20°C. The input voltage range is from 88V ~ 264Vac or 125V ~ 375Vdc, making it suitable for worldwide use, and the output voltage is adjustable by 10%.

## TP-75 Series - 75W Triple Output PFC Function Power Supply

### Applications

General electronic equipment  
 Factory automation  
 Instrumentation  
 Moving signs  
 Telecommunications  
 Data communications



### Features

Universal AC input/Full range  
 Built-in active PFC function, PF>0.95  
 Protections: Short circuit/Overload/Over voltage  
 Low profile: 33mm thickness  
 LED indicator for power on  
 Cooling by free air convection  
 Fixed switching frequency at PFC:67KHz PWM:134KHz



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
TP-75A	5V	7A	74W	100mV	70%
	12V	3A		120mV	
	-5V	1A		100mV	
TP-75B	5V	7A	76W	100mV	70%
	12V	3A		120mV	
	-12V	0.4A		120mV	
TP-75C	5V	6A	75W	100mV	70%
	15V	2.5A		120mV	
	-15V	0.5A		120mV	
TP-75D	5V	7A	76W	100mV	70%
	24V	2A		120mV	
	12V	0.4A		120mV	
TP-7503	5V	9A	75W	100mV	70%
	3.3V	8A		50mV	
	12V	0.3A		120mV	

### Description

The TP-75 Series is a triple output enclosed power supply with PFC function. Cooling by free air convection allowing an operating temperature of -10~+60°C. Protections including short circuit, overload and over voltage. With a fixed switching frequency at PFC: 67KHz, PWM: 134KHz enabling designs to avoid interference with system clock frequencies.

## SPS-G075-Q Series - 75W Quad Output AC-DC Enclosed Power Supply

### Applications

Programmable logic controller  
Automatic control systems  
Test equipment  
Printers  
POS systems  
Franking machines



### Features

Full range AC input  
Built in EMI filter, low ripple noise  
Over load, over voltage protection  
Short circuit shutdown and auto recovery  
100% full load burn-in test  
-20°C ~70°C Operating temperature  
UL, cUL, TUV, CB, CE approved



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPS-G075-Q1	5V	8A	65W	70mV	76%
	12V	3A		120mV	
	-5V	1A		100mV	
	-12V	1A		100mV	
SPS-G075-Q3	5V	8A	68W	70mV	78%
	12V	3A		120mV	
	24V	2A		200mV	
	-12V	1A		100mV	
SPS-G075-Q4	5V	8A	68W	70mV	78%
	15V	3A		120mV	
	24V	2A		200mV	
	-15V	1A		100mV	

### Description

SPS-G075-Q Series are quad output power supplies with IC function, creating operating temperatures as low as -20°C. The input voltage range is from 88V ~ 264Vac or 125V ~ 375Vdc, making it suitable for worldwide use.

## RD-85 Series - 85W Dual Output AC-DC Enclosed Power Supply

### Applications

General electronic machinery or equipment

Automation

Test equipment



### Features

Universal AC input / Full range

Short circuit, over load, over voltage protections

Cooling by free air convection

LED indicator for power on

100% full load burn-in test

All using 105°C long life electrolytic capacitors

Withstand 300VAC surge input for 5 second

High operating temperature up to 70°C

Withstand 5G vibration test

High efficiency, long life and high reliability



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
RD-85A	5V	8A	88W	80mV	78%
	12V	4A		120mV	
RD-85B	5V	8A	88W	80mV	80%
	24V	2A		120mV	

### Description

A highly efficient and reliable enclosed power supply, with a high operating temperature of -25~+70°C and cooling by free air convection. Built to withstand 300VAC surge input for 5 seconds and 5G vibrations. Overload, short circuit and over voltage protection with hiccup mode (recovering automatically after fault condition is removed).

## RID-85 Series - 85W Dual Isolated Output Enclosed Switching Power Supply

### Applications

- General electronic machinery or equipment
- Automation
- Test equipment



### Features

- Isolated output & ground
- Universal AC input
- Short circuit, over load, over voltage protections
- Cooling by free air convection
- LED indicator for power on
- 100% full load burn-in test
- All using 105°C long life electrolytic capacitors
- Withstand 300VAC surge input for 5 seconds
- High operating temperature up to 70°C
- Withstand 5G vibration test
- High efficiency, long life and high reliability
- UL, cUL, TUV, CB & CE approvals



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
RID-85A	5V	8A	88W	80mV	80%
	12V	4A		120mV	
RID-85B	5V	8A	88W	80mV	81%
	24V	2A		120mV	

### Description

A highly efficient and reliable dual output enclosed power supply, with a high operating temperature of -25~+70°C and cooling by free air convection. Isolated output and ground for both channels. Built to withstand 300VAC surge input for 5 seconds and 5G vibrations. Overload, short circuit and over voltage protection with hiccup mode (recovering automatically after fault condition is removed).



## RQ-85 Series - 85W Quad Output Enclosed Switching Power Supply

### Applications

- General electronic machinery or equipment
- Automation
- Test equipment



### Features

- Universal AC input / Full range
- Protections: Short circuit/Over load/Over voltage
- Cooling by free air convection
- LED indicator for power on
- 100% full load burn-in test
- All using 105°C long life electrolytic capacitors
- Withstand 300VAC surge input for 5 second
- High operating temperature up to 70°C
- Withstand 5G vibration test
- High efficiency, long life and high reliability



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
RQ-85B	5V	7A	81W	80mV	76%
	12V	3.1A	81W	120mV	
	-5V	0.5A	81W	100mV	
	-12V	0.5A	81W	80mV	
RQ-85C	5V	7A	82.5W	80mV	77%
	15V	2.5A	82.5W	120mV	
	-5V	0.5A	82.5W	100mV	
	-15V	0.5A	82.5W	80mV	
RQ-85D	5V	6A	84W	80mV	78%
	12V	2A	84W	120mV	
	24V	1A	84W	150mV	
	-12V	0.5A	84W	80mV	

### Description

A highly efficient and reliable quad output enclosed power supply, with a high operating temperature of -25~+70°C and cooling by free air convection. Built to withstand 300VAC surge input for 5 seconds and 5G vibrations. Overload, short circuit and over voltage protection with hiccup mode (recovering automatically after fault condition is removed).



## RT-85 Series - 85W Triple Output AC-DC Enclosed Power Supply

### Applications

General electronic machinery or equipment  
Automation  
test equipment



### Features

Universal AC input / Full range  
Short circuit, over load, over voltage protections  
Cooling by free air convection  
LED indicator for power on  
100% full load burn-in test  
All using 105°C long life electrolytic capacitors  
Withstand 300VAC surge input for 5 seconds  
High operating temperature up to 70°C  
Withstand 5G vibration test  
High efficiency, long life and high reliability



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
RT-85A	5V	8A	84.5W	80mV	76%
	12V	4A		120mV	
	-5V	0.5A		100mV	
RT-65B-85	5V	8A	88W	80mV	76%
	12V	4A		120mV	
	-12V	0.5A		120mV	
RT-65C-85	5V	5A	66W	80mV	78%
	15V	2.2A		120mV	
	-15V	0.5A		120mV	
RT-65D-85	5V	4A	68W	80mV	79%
	24V	2A		150mV	
	12V	1A		120mV	

### Description

A highly efficient and reliable triple output enclosed power supply, with a high operating temperature of -25~+70°C and cooling by free air convection. Built to withstand 300VAC surge input for 5 seconds and 5G vibrations. Overload, short circuit and over voltage protection with hiccup mode (recovering automatically after fault condition is removed).

## SPU-100 Series - 100W Single Output U-Bracket Switching Power Supply



### Features

Universal full range AC 90 ~ 264V

High efficiency.

Built in EMI filter, low ripple noise

Over load, over voltage, short circuit protection

Output voltage  $\pm 10\%$  adjustment

100% 50°C burn-in test

Short circuit/over load/ over voltage protected

UL/CSA/TUV/CE standard



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPU-100-5	5V	20A	100W	50mV	72%
SPU-100-24	24V	4.2A	100W	240mV	80%

## HRP-100 Series - 100W Single Output AC-DC Enclosed Power Supply with PFC Function

### Applications

- General electronic machinery
- Factory automation
- Instrumentation
- Moving Signs
- Telecommunications
- Data communications



### Features

- Universal AC input / Full range
- Built-in active PFC function
- High efficiency up to 90%
- Withstand 300VAC surge input for 5 seconds
- Protections: Short circuit / Overload / Over voltage
- Protections: Over temperature (optional)
- Cooling by free air convection
- 1U low profile 38mm
- Built-in remote ON-OFF control
- No load power consumption < 0.5W
- All using 105°C long life electrolytic capacitors



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
HRP-100-3-3	3.3V	20A	66W	80mV	78%
HRP-100-5	5V	17A	85W	80mV	83%
HRP-100-7-5	8V	14A	101.3W	100mV	84%
HRP-100-12	12V	8.5A	102W	120mV	88%
HRP-100-15	15V	7A	105W	150mV	88%
HRP-100-24	24V	4.5A	108W	150mV	88.5%
HRP-100-36	36V	3A	104.4W	200mV	89%
HRP-100-48	48V	2.2A	106W	240mV	90%

### Description

The HRP-100 series is a highly efficient (up to 90%) single output enclosed power supply. Equipped with built-in active PFC function, including protections including short circuit, overload and over voltage. With a low 1U profile of 38mm and cooling by free air convection allowing an operating temperature of -40~+60°C.

## PSC-100C Series - 100W AC/DC Single Output Enclosed Power Supply with UPS Function Battery Charger

### Applications

- Security systems
- Access control systems
- Emergency lighting systems
- Alarm systems
- UPS systems
- Central monitoring systems



### Features

- 90-264VAC Universal AC input
- Enclosed within L-Bracket and cover case
- Short circuit, over load, over voltage protections
- Battery low protection / Battery polarity protection by fuse
- Relay contact signal output for AC OK and Battery low
- Cooling by free air convection



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
PSC-100A-C	13.8V	4.75A	100.05W	100mV	86%
	13.8V	2.5A			
PSC-100B-C	27.6V	2.4A	100.74W	100mV	88%
	27.6V	1.25A			

### Description

PSC-100C Series is a 100W AC/DC enclosed power supply with additional charger output, designed primarily for the security industry. The product features 90-264VAC Universal AC input voltage, 13.8V and 27.6V output options and short circuit, over load and over voltage protections. PSC-100C Series has been designed with battery low protection, battery polarity protection, via fuse, and relay contact signal output for AC OK and Battery low making it ideal for security systems.

## RSP-100 Series - 100W 1U Single Output Enclosed Power Supplies with PFC Function

### Applications

- Industrial automation systems
- Mechanical & electrical equipment
- Instrumentation
- Household appliances
- Applications requiring a low profile installation



### Features

- Universal full range AC input
- Built-in active PFC function
- Short circuit, over load, over voltage, over temperature protections
- Built-in constant current limiting circuitry
- Cooling by free air convection
- 1U low profile 30mm
- Remote On-Off Control
- LED indicator for power on



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
RSP-100-3-3	3.3V	20A	66W	100mV	83%
RSP-100-5	5V	20A	100W	100mV	86%
RSP-100-7-5	7.5V	13.5A	101.25W	100mV	87%
RSP-100-12	12V	8.5A	102W	100mV	86%
RSP-100-13-5	13.5V	7.5A	101.25W	100mV	86.5%
RSP-100-15	15V	6.7A	100.5W	100mV	87%
RSP-100-24	24V	4.2A	100.8W	150mV	87%
RSP-100-27	27V	3.8A	102.6W	150mV	87%
RSP-100-48	48V	2.1A	100.8W	250mV	88%

### Description

RSP-100 Series extends the RSP range to include a lower 100W of output power, in a 1U low profile 30mm enclosure. These enclosed power supplies feature high efficiency, free air convection cooling and a 1U low profile making them ideal for end users looking for energy saving, noise free and low profile economical power supplies. The RSP-100 Series, from Mean Well provides output voltages from 3.3V to 48V, features 85-264Vac input range, is equipped with PFC function and possesses up to 88% high efficiency. Other built in features of this Mean Well enclosed power supply range include remote on/off control, short circuit, over load, over voltage and over temperature protections. The series also complies with UL, CUL, TUV, CCC, CB & CE safety regulations and is certified to TUV EN61558-2-16 to meet the requirements of household electrical appliances.



## RS-100 Series - 100W Single Output AC-DC Enclosed Power Supply

### Applications

General electronic machinery or equipment  
Automation  
Test equipment  
Small scale LED signs



### Features

Universal AC input  
Short circuit, over load, over voltage protections  
Cooling by free air convection  
LED indicator for power on  
100% full load burn-in test  
All using 105°C long life electrolytic capacitors  
Withstand 300VAC surge input for 5 second  
High operating temperature up to 70°C  
Withstand 5G vibration test  
High efficiency, long life and high reliability



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
RS-100-3-3	3.3V	20A	66W	80mV	74%
RS-100-5	5V	16A	80W	80mV	77%
RS-100-12	12V	8.5A	102W	120mV	81%
RS-100-15	15V	7A	105W	120mV	82%
RS-100-24	24V	4.5A	108W	120mV	84%
RS-100-48	48V	2.3A	110.4W	200mV	84%

### Description

The new RS-100 Series are 20% smaller than their 100W counterpart and are our most miniature AC/DC enclosed type switching power supplies that can provide 100W by only free air convection. RS-100 is fully RoHS compliant and all the electrolytic capacitors in the unit are rated in 105°C. RS-100 can also withstand 300VAC input surge for 5 seconds and 5G vibration meaning that is suitable for operation in harsh environments. Full output wattage can be provided up to 50°C and the highest operating temperature is as high as 70°C, with certain de-rating. Other standard functions include short circuit, overload, over voltage, and over temperature protections.



**SPS-S100 Series - 100W Single Output AC-DC Enclosed Power Supply****Features**

- Light weight, compact size
- Universal AC input
- Over load, over voltage & short circuit protection
- Output voltage  $\pm 10\%$  adjustment
- Built-in EMI filter, low ripple noise
- 100% 50° burn-in test
- Meet UL, cUL, CB, CE, TUV standard



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPS-S100-3-3	3.3V	20A	66W	50mV	70%
SPS-S100-05	5V	16A	80W	50mV	77%
SPS-S100-7-5	8V	11A	83W	75mV	78%
SPS-S100-12	12V	8.5A	102W	120mV	81%
SPS-S100-15	15V	7A	105W	120mV	82%
SPS-S100-24	24V	4.5A	108W	120mV	84%
SPS-S100-30	30V	4A	108W	300mV	84%
SPS-S100-48	48V	2.3A	110W	300mV	85%

**SPS-G100 Series - 100W Single Output AC/DC Green Mode Enclosed Power Supply****Applications**

Programmable logic controllers  
 Automatic controls  
 Industrial controls  
 Test equipment  
 Printers  
 POS systems  
 Electronic voting machines  
 Franking machines  
 Gambling machines

**Features**

Green mode design, no load <1W  
 High efficiency and high reliability  
 Built in EMI filter, low ripple noise  
 Over voltage protection : Shutdown and latch off  
 Over load & short circuit protection : Hiccup mode  
 Output voltage  $\pm 10\%$  adjustment  
 -20~70 Operating temperature  
 Power ON with LED indicator  
 UL, cUL, TUV, CB, CE approved



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPS-G100-3-3	3.3V	20A	66W	70mV	74%
SPS-G100-05	5V	16A	80W	80mV	77%
SPS-G100-7-5	8V	12A	90W	80mV	79%
SPS-G100-12	12V	8.5A	102W	120mV	81%
SPS-G100-15	15V	7A	105W	150mV	82%
SPS-G100-24	24V	4.5A	108W	150mV	84%
SPS-G100-30	30V	4A	108W	200mV	84%
SPS-G100-48	48V	2.3A	110W	200mV	85%
SPS-G100-ID6	24V	4A	90W	200mV	81%
	5V	3A		80mV	

**Description**

SPS-G100 is a 100W universal AC input green mode design enclosed power supply range. Available in 3.3V, 5V, 7.5V, 12V, 15V, 24V, 30V & 48V outputs. With no load power consumption less than 1W at 230VAC, high efficiency up to 85% and high reliability this is a truly green mode power supply.

**SP-100 Series - 100W Single Output Enclosed Power Supply with PFC Function****Applications**

General electronic equipment

Automation

Test equipment

**Features**

Universal AC input/full range

Built-in active PFC function, PF&gt;0.93

Protections: Short circuit/Overload/ Over voltage

Built-in constant current limiting circuit

Remote ON-OFF control (Optional)

LED indicator for power on

100% full load burn-in test

Fixed switching frequency at PFC:67KHz PWM:134KHz



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SP-100-3-3	3.3V	20A	66W	100mV	70%
SP-100-5	5V	20A	100W	100mV	76%
SP-100-7-5	8V	14A	101.25W	100mV	78%
SP-100-12	12V	8.5A	102W	100mV	80%
SP-100-13-5	14V	8A	101.25W	100mV	80%
SP-100-15	15V	7A	100.5W	100mV	82%
SP-100-24	24V	4.2A	101W	100mV	84%
SP-100-27	27V	4A	103W	150mV	83%
SP-100-48	48V	2.1A	101W	150mV	82%

**Description**

The Sp-100 series is a 100W single output switching power supply with PFC function. Protections including short circuit, overload and over voltage. With fixed switching frequency at PFC: 67KHz, PWM: 134KHz enabling designs to avoid interference with system clock frequencies.

**SPS-100P Series - 100W Single Output AC/DC PFC Power Supply****Applications**

Programmable logic controller  
 Automatic controls  
 Industrial controls  
 Test equipment  
 Printers  
 POS systems  
 Electronic voting machines  
 Franking machines  
 Gambling machines

**Features**

Power ON with LED indicator  
 Built-in EMI filter, low ripple noise  
 Over voltage protection  
 Over load & short circuit protection  
 Output voltage  $\pm 10\%$  adjustment  
 100% full load burn-in test  
 $-20^{\circ}\text{C}$  to  $70^{\circ}\text{C}$  operating temperature  
 UL, cUL, TUV, CB, CE standard



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPS-100P-3-3	3.3V	23A	76W	70mV	74%
SPS-100P-05	5V	20A	100W	70mV	78%
SPS-100P-12	12V	8.5A	102W	120mV	83%
SPS-100P-15	15V	7A	105W	150mV	84%
SPS-100P-24	24V	4.3A	103W	240mV	84%
SPS-100P-30	30V	4A	105W	240mV	85%
SPS-100P-48	48V	2.3A	110W	300mV	86%

**Description**

SPS-100P Series is a range of 100W single output power supplies with PFC and full range AC input for worldwide use. The new circuit of SPS-100P includes a built-in PWM control IC which brings the max output wattage on the 48V output model up to 110W, in natural cooling conditions.

**SPS-100PD Series - 100W Dual Output Switching Power Supply****Features**

Universal AC input, PFC function (option)  
 Built-in EMI filter, low ripple noise  
 Over load, over voltage & short circuit protection  
 100% 50° burn-in test  
 UL, cUL, TUV, CB, CE certified  
 Isolated outputs



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPS-100PD4	-15V	4A	100W	150mV	76%
SPS-100PD3	-12V	5A	100W	120mV	76%
SPS-100PD1	12V	6A	100W	120mV	76%
SPS-100PD2	24V	4A	100W	240mV	76%

**SPS-G100-D Series - 100W Dual Output AC/DC Enclosed Switch Mode Power Supply****Applications**

Automatic control systems  
 Programmable logic controllers  
 Test equipment

**Features**

Universal full range input  
 Power on with LED indicator  
 Built in EMI filter, low ripple noise  
 Over voltage protection - Shutdown and latch off  
 Over load & short circuit protections - Hiccup mode  
 100% full load burn-in test  
 -20°C ~ +70°C operating temperature  
 UL, cUL, TUV, CB, CE approved



Model No	Voltage (max)	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPS-G100-D1	5V	10A	88W	80mV	78%
	12V	6A		120mV	
SPS-G100-D2	5V	10A	90W	80mV	79%
	24V	3A		200mV	

**Description**

SPS-G100-D Series is a dual output enclosed power supply range designed with wide operating temperature ranges. These enclosed power supplies comply with EN61000-3-2 Class A and are approved to UL, cUL, CB and TUV EN60950-1:2006.



**SPU-100-D Series - 100W Dual Output U-Bracket Power Supply**



**Features**

- Universal AC input
- Built in EMI filter
- 100% 50° burn-in test
- Low ripple noise
- High efficiency
- Overload, over voltage & short circuit protection
- Approvals: UL/cUL/TUV/CE/CB



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
SPU-100-D1	5V	20A	100W	50mV	74%
	12V	2.5A		80mV	
SPU-100-D2	5V	20A	100W	50mV	75%
	24V	2A		120mV	
SPU-100-D3	24V	4.2A	100W	120mV	77%
	5V	2A		50mV	

**SPS-G100-ID Series - 100W Dual Isolated Output AC/DC Enclosed Switch Mode Power Supply****Applications**

Automatic control systems  
 Programmable logic controllers  
 Test equipment

**Features**

Output 1 & 2 are isolated  
 Universal full range input  
 Power on with LED indicator  
 Built in EMI filter, low ripple noise  
 Over voltage protection - Shutdown and latch off  
 Over load & short circuit protections - Hiccup mode  
 First output voltage +/-10% adjustable on ID5 & ID6  
 100% full load burn-in test  
 -20°C ~ +70°C operating temperature  
 UL, cUL, TUV, CB, CE approved



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
SPS-G100-ID1	5V	10A	88W	80mV	78%
	12V	6A		120mV	
SPS-G100-ID2	5V	10A	90W	80mV	79%
	24V	3A		200mV	
SPS-G100-ID5	12V	7A	88W	120mV	79%
	5V	3A		80mV	

**Description**

SPS-G100-ID Series is a dual isolated output enclosed power supply range designed with wide operating temperature ranges. These enclosed power supplies comply with EN61000-3-2 Class A and are approved to UL, cUL, CB and TUV EN60950-1:2006.

**SPS-100P-ID Series - 100W Dual Isolated Output Enclosed Power Supply****Applications**

Programmable logic controllers  
 Automatic controls  
 Industrial controls  
 Test equipment  
 Motor-Based machinery

**Features**

Universal AC input, PFC function  
 Isolated outputs  
 ±10% output voltage adjustment on output 1 of SPS-100P-ID5/ID6 models  
 Built-in EMI filter, low ripple noise  
 Over load, over voltage & short circuit protection  
 100% full load burn-in test  
 -20°C to +70°C operating temperature  
 Power ON with LED indicator  
 UL, cUL, TUV, CB, CE certified



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
SPS-100P-ID1	5V	12A	100W	70mV	81%
	12V	7A		120mV	
SPS-100P-ID2	5V	12A	100W	70mV	82%
	24V	4A		240mV	
SPS-100P-ID5	12V	8A	100W	120mV	82%
	5V	3A		70mV	
SPS-100P-ID6	24V	4A	100W	240mV	83%
	5V	3A		70mV	

**Description**

SPS-100P-ID is a range of dual isolated output enclosed power supplies with power factor correction. Featuring wide operating temperatures from -20°C to +70°C and high efficiency up to 83% these enclosed power supplies are highly reliable.

**SPS-100P-IT Series - 100W Triple Isolated Output AC/DC PFC Enclosed Power Supply****Applications**

Programmable logic controller  
Automatic control  
Industrial control  
Test equipment

**Features**

All outputs are isolated  
Outputs two & three have polarity option  
Power on LED indicator  
Built in EMI filter  
Low ripple noise  
Over voltage protection  
Over load & short circuit protection  
100% full load burn-in test  
-20°C to +70°C operating temperature  
UL, cUL, TUV, CB, CE Approved



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
SPS-100P-IT1	5V	12A	100W	70mV	78%
	12V	5A		120mV	
	-5V	2A		100mV	
SPS-100P-IT2	5V	12A	100W	70mV	78%
	12V	5A		120mV	
	-12V	2A		150mV	
SPS-100P-IT3	5V	12A	100W	70mV	78%
	15V	4A		150mV	
	-15V	2A		200mV	
SPS-100P-IT4	5V	12A	100W	70mV	78%
	12V	4A		120mV	
	24V	2A		240mV	

**Description**

SPS-100P-IT Series are a range of triple output enclosed switch mode power supply with PFC function and isolated outputs. These enclosed power supplies have a wide operation range of -20°C to +70°C, have built in EMI filter and over voltage, over load and short circuit protections.

**SPS-100PT Series - 100W Triple Output PFC Function Power Supply****Features**

Universal AC input  
 PFC Function (option)  
 Built-in EMI filter  
 Low ripple noise  
 Over voltage, over load protection  
 Short circuit shut down & auto recovery  
 100% 50° burn-in test  
 UL, cUL, TUV, CB, CE approved



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
SPS-100-PT1	5V	12A	100W	50mV	73%
	12V	5A		120mV	
	-5V	2A		100mV	
SPS-100-PT2	5V	12A	100W	50mV	74%
	12V	5A		120mV	
	-12V	2A		150mV	
SPS-100-PT3	5V	12A	100W	50mV	75%
	15V	3A		150mV	
	-15V	2A		200mV	
SPS-100-PT4	5V	12A	100W	50mV	75%
	12V	3A		120mV	
	24V	2A		240mV	

## TP-100 Series - 100W Triple Output PFC Function Power Supply

### Applications

- General electronic equipment
- Factory automation
- Instrumentation
- Moving signs
- Telecommunications
- Data communications



### Features

- Universal AC input/Full range
- Built-in active PFC function, PF>0.94
- Protections: Short circuit/Overload/Over voltage
- Free air cooling convection
- Fixed switching frequency at 100KHz



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
TP-100A	5V	10A	101W	100mV	75%
	12V	4A		120mV	
	-5V	1A		100mV	
TP-100B	5V	10A	105.2W	100mV	78%
	12V	4A		120mV	
	-12V	1A		100mV	
TP-100C	5V	10A	104W	100mV	77%
	15V	3A		150mV	
	-15V	1A		100mV	
TP-100D	5V	10A	105.2W	100mV	78%
	24V	2A		150mV	
	12V	1A		100mV	

### Description

The TP-100 Series is a 100W triple output enclosed power supply with PFC function. Protections including short circuit, overload and over voltage. Cooling by free air convection allows an operating temperature -10~+60°C. With a fixed switching frequency at 100KHz enabling designs to avoid interference with system clock frequencies.



## SPS-100-T Series - 100W Triple Output Power Supply



### Features

- Universal AC input, PFC function (option)
- Built-in EMI filter, low ripple noise
- Over load, over voltage & short circuit protection
- 100% 50° burn-in test
- UL, cUL, TUV, CB, CE approved



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
SPS-100-T1	5V	12A	100W	50mV	73%
	12V	5A		120mV	
	-5V	2A		100mV	
SPS-100-T2	5V	12A	100W	50mV	74%
	12V	3A		120mV	
	-12V	2A		150mV	
SPS-100-T3	5V	12A	100W	50mV	75%
	15V	3A		150mV	
	-15V	2A		200mV	
SPS-100-T4	5V	12A	100W	50mV	75%
	12V	3A		120mV	
	24V	2A		240mV	

## SPS-100P-Q Series - 100W Quad Output AC/DC Enclosed Power Supply with PFC

### Applications

Programmable logic controller  
Automatic control  
Industrial control  
Test equipment



### Features

Universal full range input  
Power ON with LED indicator  
Built-in EMI filter, low ripple noise  
Over voltage, Over load, short circuit protection  
100% full load burn-in test  
-20°C to 70°C operating temperature  
UL, cUL, TUV, CB, CE approved



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
SPS-100P-Q1	5V	12A	100W	70mV	77%
	12V	5A		120mV	
	-5V	1A		100mV	
	-12V	1A		150mV	
SPS-100P-Q2	5V	12A	100W	70mV	77%
	15V	5A		150mV	
	-5V	1A		100mV	
	-15V	1A		200mV	
SPS-100P-Q3	5V	12A	100W	70mV	78%
	12V	5A		120mV	
	-12V	1A		150mV	
	24V	2A		240mV	

### Description

SPS-100P-Q Series are 100W Quad output AC/DC enclosed power supplies with PFC function. This enclosed power supply range has wide operating temperatures from -20C to +70C, Built-in EMI filter and Over voltage, Over load and short circuit protection.

## SPU-100-Q Series - 100W Quad Output U-Bracket Power Supply



### Features

Universal full range AC 90 ~ 364V

Light weight, compact size

Built-in EMI filter, low ripple noise

100% 50° burn-in test

High efficiency, high reliability

UL/CSA/TUV/CE standard



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
SPU-100-Q1	5V	12A	100W	60mV	72%
	12V	4A		100mV	
	-5V			150mV	
	-12V	0.5A		240mV	

## SPS-G100-Q Series - 100W Quad Output AC/DC Enclosed Switch Mode Power Supply

### Applications

Automatic control systems  
 Programmable logic controllers  
 Test equipment



### Features

Universal full range input  
 Power on with LED indicator  
 Built in EMI filter, low ripple noise  
 Over voltage protection - Shutdown and latch off  
 Over load & short circuit protections - Hiccup mode  
 100% full load burn-in test  
 -20°C ~ +70°C operating temperature  
 UL, cUL, TUV, CB, CE approved



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
SPS-G100-Q1	5V	10A	85W	80mV	76%
	12V	4A		120mV	
	-12V	1A		100mV	
	-5V	1A		100mV	
SPS-G100-Q3	5V	10A	88W	80mV	77%
	24V	4A		200mV	
	12V	2A		120mV	
	-12V	1A		100mV	
SPS-G100-Q4	5V	10A	88W	80mV	78%
	15V	4A		150mV	
	24V	2A		200mV	
	-15V	1A		100mV	

### Description

SPS-G100-Q Series is a quad output enclosed power supply range designed with wide operating temperature ranges. These enclosed power supplies comply with EN61000-3-2 Class A and are approved to UL, cUL, CB and TUV EN60950-1:2006.

## QP-100 Series - 100W Quad Output PFC Function Power Supply

### Applications

General electronic machinery  
 Factory automation  
 Instrumentation  
 Moving signs  
 Telecommunications  
 Data communications



### Features

Universal AC input  
 Built-in active PFC function, PF>0.95  
 Short circuit, over load, over voltage protections  
 Free air cooling convection  
 Output 4: ± Polarity is selectable  
 Fixed switching frequency at 100KHz



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
QP-100D	5V	8A	100W	120mV	78%
	12V	2.4A		150mV	
	24V	1A		200mV	
	-12V	1A		150mV	
QP-100F	5V	8A	103W	120mV	78%
	15V	2A		180mV	
	24V	1A		200mV	
	-15V	1A		150mV	
QP-100-3A	5V	8A	99.4W	100mV	74%
	3.3V	8A		100mV	
	12V	2.5A		150mV	
	-5V	1A		150mV	
QP-100-3B	5V	8A	100W	100mV	74%
	3.3V	8A		100mV	
	12V	2.2A		150mV	
	-12V	1A		150mV	
QP-100-3C	5V	8A	101W	100mV	75%
	3.3V	8A		100mV	
	15V	2A		150mV	
	-15V	1A		150mV	
QP-100-3D	5V	8A	105W	100mV	75%
	3.3V	8A		100mV	
	24V	1.3A		150mV	
	-12V	1A		150mV	

### Description

The QP-100 series is a 100W quad output enclosed power supply with PFC function. Protections including short circuit, overload and over voltage. Cooling by free air convection allows an operating temperature of -10~+60°C. With a fixed switching frequency of 100KHz enabling designs to avoid interference with system clock frequencies.

**SPS-100-Q Series - 100W Quad Output PFC Function Power Supply**



**Features**

- Universal input
- Built-in EMI filter
- Low ripple noise
- 100% 50°C burn in test
- Over voltage, over load protection
- Short circuit shut down & auto recovery



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
SPS-100-Q1	5V	12A	100W	50mV	72%
	12V	5A		120mV	
	-5V	1A		100mV	
	-12V	1A		240mV	
SPS-100-Q2	5V	12A	100W	50mV	73%
	15V	5A		150mV	
	-5V	1A		100mV	
	-15V	1A		300mV	
SPS-100-Q3	5V	12A	100W	50mV	73%
	12V	5A		120mV	
	-12V	1A		240mV	
	24V	2A		240mV	



## MWP-602(A) Series - 104W AC-DC Triple Output for Video Game



### Features

- Low cost, high reliability
- 105°C Output capacitor
- Internal AC input range
- Built in EMI filter, low ripple noise
- High efficiency, low working temperature
- Soft-start circuit, limiting as surge current
- Short circuit, overload protected
- Compact size, light weight
- 100% full load burn-in test
- Output voltage correction LED



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
MWP-602-MWP-602A	5V	15A	104W	50mV	75%
	12V	2A		120mV	
	-5V	1A		60mV	

## MWP-606(A) Series - 104W AC-DC Triple Output for Video Game



### Features

- Low cost, high reliability
- 105°C Output capacitor
- Internal AC input range
- Built in EMI filter, low ripple noise
- High efficiency, low working temperature
- Soft-start circuit, limiting as surge current
- Short circuit, overload protected
- Compact size, light weight
- 100% full load burn-in test
- Output voltage correction LED



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
MWP-606-MWP-606A	5V	15A	104W	50mV	75%
	12V	2A		120mV	
	-5V	1A		60mV	

## MWP-608 - 104W AC-DC Triple Output for Video Game



### Features

Universal AC input/Full range  
 Protections: Short circuit / overload  
 Cooling by free air convection



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
MWP-608	5V	10A	104W	50mV	80%
	12V	2A		120mV	
	24V	1.25A		150mV	

### Specifications

Input voltage range	88~132VAC / 176~264VAC selected by switch 47~63Hz
Frequency range	47 ~ 63Hz
AC current	2.8A/115V 1.7A/230V
Inrush current	Cold start 20A/115V 40A/230V
Leakage current	<3.5mA/240VAC
DC output power	104W
Efficiency	80%
Setup, rise, hold up time	200ms, 50ms, 16ms at full load
Overload protection	150 ~ 200% rated output power (CH1:19.2 ~ 29.2) Protection type: Fold back current limiting, recovers automatically after fault condition is removed
Operating display	Double colour LED correct range: Green (5~5.4Vref.) Wrong range: Red
Working temp	-10°C~+60°C
Working humidity	20% ~ 90% RH non condensing
Storage temp., humidity	-20°C~+85°C, 5% ~ 95% RH
Temp. coefficient	±0.05% / °C (0~50°C) on +5V output
Vibration	10 ~ 500Hz, 2G 10 min. /1 cycle, period for 60 min. each along X,Y,Z axes
MTBF	267K hrs min. MIL-HDBK-217F (25°C)
Safety standards	TUV EN60950-1 Approved

## SPS-110 Series - 110W AC-DC Single Output Enclosed Power Supply



### Features

- 85V ~ 132 V or 170V ~ 264V Selected by switch
- Built in EMI filter, low ripple noise
- Over load, over voltage, short circuit protection
- Output voltage  $\pm 10\%$  adjustment
- Non min load requirement
- 100% 50°C burn-in test
- Meets UL, cUL, TUV, ,CB, CE standard



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
SPS-110-3-3	3.3V	25A	110W	50mV	70%
SPS-110-05	5V	22A	110W	50mV	75%
SPS-110-7-5	8V	15A	110W	100mV	75%
SPS-110-10	10V	11A	110W	100mV	76%
SPS-110-12	12V	9.2A	110W	120mV	78%
SPS-110-15	15V	8A	110W	150mV	79%
SPS-110-18	18V	6.2A	110W	180mV	79%
SPS-110-24	24V	5A	110W	240mV	80%
SPS-110-28	28V	4A	110W	280mV	80%
SPS-110-48	48V	2.3A	110W	480mV	81%



**Features**

- Universal AC input with active power factor correction, P.F.>0.95
- Built in EMI filter, low ripple noise
- Over load, over voltage, short circuit protection
- Over temperature protection (Optional)
- Output voltage  $\pm 10\%$  adjustment
- Remote Control ON/OFF (Optional)
- Non min load requirement
- 100% 50°C burn-in test
- UL, cUL, TUV, ,CB, CE pending



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
SPS-120P-3-3	3.3V	25A	120W	50mV	69%
SPS-120P-05	5V	20A	120W	70mV	75%
SPS-120P-7-5	8V	16A	120W	80mV	77%
SPS-120P-12	12V	10A	120W	100mV	80%
SPS-120P-15	15V	8A	120W	120mV	80%
SPS-120P-24	24V	5A	120W	150mV	81%
SPS-120P-30	30V	4A	120W	180mV	81%
SPS-120P-48	48V	2.5A	120W	250mV	81%

## RD-125 Series - 125W Dual Output AC-DC Enclosed Power Supply

### Applications

General electronic machinery or equipment  
Automation  
Test equipment



### Features

Short circuit, over load, over voltage protections  
Cooling by free air convection  
LED indicator for power on  
100% full load burn-in test  
All using 105°C long life electrolytic capacitors  
Withstand 300VAC surge input for 5 second  
High operating temperature up to 70°C  
Withstand 5G vibration test  
High efficiency, long life and high reliability  
UL, cUL, TUV, CE & CB approvals



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
RD-125A	5V	8A	131W	80mV	82%
	12V	8A		120mV	
RD-125B	5V	5A	133.4W	80mV	85%
	24V	5A		120mV	
RD-125-1224	12V	4A	133.2W	120mV	85%
	24V	4A		200mV	
RD-125-1248	12V	2.3A	138W	120mV	86%
	48V	2.3A		240mV	
RD-125-2448	24V	2A	144W	200mV	86%
	48V	2A		240mV	
RD-125-2412	24V	4A	133.2W	200mV	85%
	12V	4A		120mV	
RD-125-4812	48V	2.3A	138W	240mV	86%
	12V	2.3A		120mV	
RD-125-4824	48V	2A	144W	240mV	86%
	24V	2A		240mV	

### Description

A highly efficient and reliable enclosed power supply, with a high operating temperature of -25~+70°C and cooling by free air convection. Built to withstand 300VAC surge input for 5 seconds and 5G vibrations. Overload, short circuit and over voltage protection with hiccup mode (recovering automatically after fault condition is removed).



## Applications

Motor-based machinery  
Automation equipment  
Test equipment  
POS systems  
Franking machines  
Banking machines  
Printers/plotters



## Features

Isolated output & GND for CH1,CH2  
AC input range selectable by switch  
Short circuit, over load, over voltage protections  
Cooling by free air convection  
LED indicator for power on  
100% full load burn-in test  
High reliability



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
RID-125-1224	12V	4A	133.2W	120mV	85%
	24V	4A		200mV	
RID-125-2448	24V	2A	144W	200mV	86%
	48V	2A		240mV	
RID-125-1248	12V	2.3A	138W	120mV	85%
	48V	2.3A		240mV	

## Description

AC/DC switching power supplies that can provide 125W using air convection. The units can withstand 300VAC input surge for 5 seconds and 5G vibration that is suitable to be operated in harsh environment. Possessing 12V or 24V main output channel (CH1) with up to 180% of high peak load capability the isolated design between CH1 and CH2 can significantly prevent noise sourcing from the motor action from entering control circuits and hence secure the accurate operation of the end equipment. Other standard functions include short circuit, overload, and over voltage protections.

## Applications

General electronic machinery or equipment

Automation

Test equipment



## Features

Protections: Short circuit, Overload, Over voltage

Cooling by free air convection

LED indicator for power on

100% full load burn-in test

All using 105°C long life electrolytic capacitors

Withstand 300VAC surge input for 5 seconds

High operating temperature up to 70°C

Withstand 5G vibration test

High efficiency, long life and high reliability



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
RT-125A	5V	12A	131W	80mV	79%
	12V	6A		120mV	
	-5V	1A		80mV	
RT-125B	5V	12A	132W	80mV	80%
	12V	5A		120mV	
	-12V	1A		120mV	
RT-125C	5V	10A	132.5W	80mV	81%
	15V	4.5A		150mV	
	-15V	1A		150mV	
RT-125D	5V	8A	136W	80mV	82%
	24V	3A		150mV	
	12V	2A		120mV	

## Description

A highly efficient and reliable triple output enclosed power supply, with a high operating temperature of -25~+70°C and cooling by free air convection. Built to withstand 300VAC surge input for 5 seconds and 5G vibrations.

Overload, short circuit and over voltage protection with hiccup mode (recovering automatically after fault condition is removed).

## Applications

General electronic machinery or equipment

Automation

Test equipment



## Features

Protections: Short circuit/Over load/Over voltage

Cooling by free air convection

LED indicator for power on

100% full load burn-in test

All using 105°C long life electrolytic capacitors

Withstand 300VAC surge input for 5 second

High operating temperature up to 70°C

Withstand 5G vibration test

High efficiency, long life and high reliability



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
RQ-125B	5V	11A	120W	80mV	79%
	12V	4.5A	120W	120mV	
	-5V	1A	120W	80mV	
	-12V	0.5A	120W	80mV	
RQ-125C	5V	10A	122.5W	80mV	80%
	15V	4A	122.5W	120mV	
	-5V	1A	122.5W	80mV	
	-15V	0.5A	122.5W	80mV	
RQ-125D	5V	8A	124W	80mV	82%
	12V	2.5A	124W	120mV	
	24V	2A	124W	150mV	
	-12V	0.5A	124W	80mV	

## Description

A highly efficient and reliable quad output enclosed power supply, with a high operating temperature of -25~+70°C and cooling by free air convection. Built to withstand 300VAC surge input for 5 seconds and 5G vibrations.

Overload, short circuit and over voltage protection with hiccup mode(recovering automatically after fault condition is removed)

## Applications

General electronics  
Factory automation  
Moving signs  
Test and measurement equipment



## Features

Universal AC input  
Built-in active PFC function, PF>0.95  
High efficiency up to 88% (typ.)  
Short circuit, over load, over voltage, over temperature protections  
Withstand 300VAC surge input for 5 seconds  
Cooling by free air convection  
Built-in constant current limiting circuit  
1U low profile 38mm  
Built-in ON-OFF control  
Built-in remote sense function  
Stand by 5V@0.3A  
No load power consumption <0.5A



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
HRPG-150-3-3	3.3V	30A	99W	80mV	80%
HRPG-150-5	5V	26A	130W	80mV	84%
HRPG-150-7-5	8V	20A	150W	100mV	86%
HRPG-150-12	12V	13A	156W	120mV	87%
HRPG-150-15	15V	10A	150W	150mV	87%
HRPG-150-24	24V	6.5A	156W	150mV	87%
HRPG-150-36	36V	4.3A	155W	200mV	88%
HRPG-150-48	48V	3.3A	158.4W	240mV	88%

## Description

HRPG-150 Series are 150W AC/DC miniature enclosed type power supplies with PFC function that fulfil the requirement of EN61000-3-2 for harmonic current with remote ON/OFF control and 5V/0.3A standby output to achieve no load power consumption <0.5W. Other standard functions of HRPG-150 include 300VAC input surge immunity for 5 seconds, remote sense, LED indicator, heavy industry level of EMS immunity(EN61000-6-2), and protection for short-circuit, overload (constant current limiting), over voltage, and over temperature.

## Applications

Charger for lead acid batteries



## Features

- AC input selected by switch
- Short circuit, over load, over voltage protections
- Built in constant current limiting circuit
- Built in temperature compensation circuit
- Alarm signal output option
- Approvals: UL/ TUV/ CE
- Fixed switching frequency at 25KHz



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
SC-150-13-5	14V	11.2A	151.2W	180mV	83%
SC-150-27	27V	6A	151.2W	240mV	86%
SC-150-54	54V	3A	151.2W	240mV	86%



General electronics  
 Factory automation  
 Moving signs  
 Test and measurement equipment



**Features**

- Universal AC input
- Built-in active PFC function, PF>0.95
- High efficiency up to 89% (typ.)
- Short circuit, over load, over voltage, over temperature protections
- Withstand 300VAC surge input for 5 seconds
- Cooling by free air convection
- Built-in constant current limiting circuit
- 1U low profile 38mm
- Built-in remote sense function



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
HRP-150-3-3	3.3V	30A	99W	80mV	80%
HRP-150-5	5V	26A	130W	80mV	85%
HRP-150-7-5	8V	20A	150W	100mV	87%
HRP-150-12	12V	13A	156W	120mV	88%
HRP-150-15	15V	10A	150W	150mV	88%
HRP-150-24	24V	6.5A	156W	150mV	88%
HRP-150-36	36V	4.3A	155W	200mV	89%
HRP-150-48	48V	3.3A	158.4W	240mV	89%

**Description**

HRP-150 Series are 150W AC/DC miniature enclosed type power supplies with PFC function that fulfil the requirement of EN61000-3-2 for harmonic current with high operating efficiency and low no load power consumption. Standard functions of HRP-150 include 300VAC input surge immunity for 5 seconds, remote sense, LED indicator, heavy industry level of EMS immunity(EN61000-6-2), and protection for short-circuit, overload (constant current limiting), over voltage, and over temperature.



Security systems  
 Communication systems  
 Lit Displays  
 LED Displays  
 LED Lighting  
 Test & measurement equipment



**Features**

- Cooling by free air convection
- LED indicator for power on
- 100% full load burn-in test
- Short circuit, over load, over voltage protections
- All using 105°C long life electrolytic capacitors
- Withstand 300VAC surge input for 5 second
- High operating temperature up to 70°C
- Withstand 5G vibration test
- High efficiency, long life and high reliability



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
RS-150-3-3	3.3V	30A	99W	80mV	74%
RS-150-5	5V	26A	130W	80mV	78%
RS-150-12	12V	12.5A	150W	120mV	83%
RS-150-15	15V	10A	150W	120mV	84%
RS-150-24	24V	6.5A	156W	120mV	86%
RS-150-48	48V	3.3A	158.4W	200mV	87%

**Description**

RS-150 Series is a single output enclosed AC-DC power supply, with cooling by free air convection the power supply has a working temperature of -25~+70°C. Withstanding 300VAC surge input for 5 seconds.



### Features

- Power ON with LED indicator
- Built-in EMI filter, low ripple noise
- Over load, over voltage protection
- Short circuit shutdown and Auto recovery
- Output  $\pm 10\%$  adjustment
- Non min. load requirement
- 100% 50 $\hat{A}$ ° burn-in test
- UL, cUL, CB, CE pending



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
SPS-S150-05	5V	26A	130W	80mV	78%
SPS-S150-7-5	8V	17.4A	150W	80mV	83%
SPS-S150-12	12V	12.5A	150W	120mV	83%
SPS-S150-15	15V	10A	150W	120mV	84%
SPS-S150-24	24V	6.5A	156W	120mV	86%
SPS-S150-36	36V	4.4A	158.4W	200mV	86%

IC testing equipment  
 Factory automation  
 Mechanical and electrical industry



**Features**

Universal AC input / Full range  
 Built-in active PFC function, PF>0.95  
 Short circuit, over load, over voltage, over temperature protections  
 Fixed switching frequency at 100KHz  
 Output voltage programmable from 20~110% by 1~5.5VDC external control signal



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
SPV-150-12	12V	12.5A	150W	150mV	82%
SPV-150-24	24V	6.25A	150W	150mV	83%
SPV-150-48	48V	3.125A	150W	240mV	83%

**Description**

SPV-150 Series are a programmable output 150W single output enclosed power supply range with efficiency up to 83% and built in active PFC >0.94. These enclosed power supplies also have remote on/off control and full protections.

**Applications**

General electronic equipment



### Features

- Universal full range AC input
- Built-in active PFC function, PF>0.93
- Short circuit, over load, over voltage, over temperature protections
- Built-in constant current limiting circuit
- Remote ON-OFF control(Optional)
- LED indicator for power on
- 100% full load burn-in test
- Fixed switching frequency at PFC:67KHz PWM:134KHz



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
SP-150-3-3	3.3V	30A	99W	100mV	73%
SP-150-5	5V	30A	150W	100mV	79%
SP-150-7-5	8V	20A	150W	100mV	81%
SP-150-12	12V	12.5A	150W	100mV	84%
SP-150-13-5	14V	11.2A	151.2W	100mV	84%
SP-150-15	15V	10A	150W	100mV	83.5%
SP-150-24	24V	6.3A	150W	150mV	85%
SP-150-27	27V	6A	151.2W	150mV	86%
SP-150-48	48V	3.2A	154W	250mV	85%

### Description

The SP-150 Series is a 150W single output switching power supply with PFC function. Protections including short circuit, over load, over voltage and over temperature. Cooling by free air convection allowing an operating temperature of -10~+60°C. With a fixed switching frequency at PFC: 67KHz, PWM: 134KHz enabling designs to avoid interference with system clock frequencies.

### Applications

Industrial automation systems

Mechanical & electrical equipment  
 Instrumentation  
 Household appliances  
 Applications requiring a low profile installation



**Features**

Universal AC input/full range  
 Built-in active PFC function  
 Short circuit, over load, over voltage, over temperature protections  
 Built-in constant current limiting circuitry  
 Cooling by free air convection  
 1U low profile 30mm  
 Remote On-Off Control  
 LED indicator for power on



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
RSP-150-3-3	3.3V	30A	99W	100mV	81.5%
RSP-150-5	5V	30A	150W	100mV	87%
RSP-150-7-5	7.5V	20A	150W	100mV	88.5%
RSP-150-12	12V	12.5A	150W	100mV	90%
RSP-150-13-5	13.5V	11.2A	151.2W	100mV	87.5%
RSP-150-15	15V	10A	150W	100mV	88.5%
RSP-150-24	24V	6.3A	151.2W	150mV	89%
RSP-150-27	27V	5.6A	151.2W	150mV	89.5%
RSP-150-48	48V	3.2A	153.6W	250mV	90%

**Description**

RSP-150 Series offers 150W of output power in a 1U low profile 30mm enclosure. These enclosed power supplies feature high efficiency and free air convection cooling

**USP-150 - 150W U-Bracket Single Output with PFC Function**

**Applications**

General electronic equipment  
 Low profile applications  
 Embedded power solutions



### Features

- Universal AC input/ Full range (Up to 295 VAC)
- Built in active PFC compliance
- Constant Voltage design
- High efficiency up to 93%
- Protections: Short circuit/ Overload/ Over voltage/ Over temperature
- Cooling by free air convection
- U-bracket low profile: 33mm
- ZVS technology to reduce power dissipation



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
USP-150-12	12V	12.5A	150W	100mV	92%
USP-150-15	15V	10A	150W	150mV	92%
USP-150-24	24V	6.3A	151.2W	150mV	93%
USP-150-36	36V	4.2A	151.2W	250mV	93%
USP-150-48	48V	3.2A	154W	250mV	93%

### Description

The USP-150 Series is a single output U-bracket power supply with PFC function. A highly efficient power supply at 93%, protections including, short circuit, overload, over voltage and over temperature. Cooling by free air convection allows an operating temperature of -30~+65°C.





**Features**

- AC 90~132 V / 180~264V auto sensing
- High efficiency, high reliability
- Built in EMI filter, low ripple noise
- Over load, over voltage, short circuit protection
- 100% 50°C burn-in test
- Meet UL, cUL, TUV, CB, CE standard



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
SPU-150-D1	8V	18A	150W	80mV	73%
	5V	3A		50mV	
SPU-150-D2	12V	12A	150W	120mV	75%
	5V	3A		50mV	
SPU-150-D3	24V	6A	150W	240mV	76%
	5V	3A		50mV	

**SPU-150-Q Series - 150W Quad Output Power Supply**

**Features**

- Auto sensing AC input
- High efficiency



Light weight, compact size  
 Built-in EMI filter, low ripple noise  
 100% 50Â° burn-in test  
 UL, cUL, TUV, CB, CE Standard



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
SPU-150-Q1	5V	25A	150W	50mV	72%
	12V	10A		150mV	
	-12V	2A		240mV	
	-5V	1A		100mV	
SPU-150-Q2	5V	20A	150W	50mV	75%
	15V	8A		150mV	
	-15V	2A		150mV	
	-5V	1A		100mV	
SPU-150-Q3	5V	20A	150W	50mV	72%
	12V	8A		150mV	
	-12V	2A		240mV	
	24V	2A		240mV	
SPU-150-Q4	5V	20A	150W	50mV	72%
	15V	4A		150mV	
	-15V	2A		300mV	
	-5V	1A		100mV	

Factory automation  
 Instrumentation  
 Moving Signs  
 Telecommunications  
 Data communications



**Features**

Universal AC input  
 Built-in active PFC function, PF>0.95  
 Short circuit, over load, over voltage protections  
 Forced air cooling by built-in DC fan  
 Fixed switching frequency at 100KHz



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
QP-150B	5V	15A	150W	100mV	76%
	12V	4A		150mV	
	-12V	2A		150mV	
	-5V	1A		100mV	
QP-150C	5V	15A	153W	100mV	77%
	15V	3A		150mV	
	-15V	2A		150mV	
	-5V	1A		100mV	

**Description**

The QP-150B, C Series is a quad output enclosed power supply with PFC function. Protections including short circuit, overload and over voltage. Forced air cooling by built-in DC fan allows an operating temperature of -10~+60°C. With a fixed switching frequency at 100KHz enabling designs to avoid interference with system clock frequencies.

**Applications**

Factory automation

Instrumentation  
 Moving signs  
 Telecommunications  
 Data communications



**Features**

Universal AC input  
 Built-in active PFC function, PF>0.95  
 Short circuit, over load, over voltage protections  
 Forced air cooling by built-in DC fan  
 Output: 4±Polarity is selectable  
 Fixed switching frequency at 100KHz



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
QP-150D	5V	10A	150.2W	120mV	78%
	12V	4A		150mV	
	24V	2A		200mV	
	-12V	1A		150mV	
QP-150F	5V	10A	152W	120mV	78%
	15V	3A		150mV	
	24V	2A		200mV	
	-15V	1A		150mV	
QP-150-3A	5V	10A	146W	100mV	73%
	3.3V	10A		100mV	
	12V	5A		150mV	
	-5V	1A		150mV	
QP-150-3B	5V	10A	150.2W	100mV	75%
	3.3V	10A		100mV	
	12V	5A		150mV	
	-12V	1A		150mV	
QP-150-3C	5V	10A	152W	100mV	74%
	3.3V	10A		100mV	
	15V	4A		150mV	
	-15V	1A		150mV	
QP-150-3D	5V	10A	150.2W	100mV	
	3.3V	10A		100mV	
	24V	2.5A		150mV	
	-12V	1A		150mV	

**Description**

The QP-150 Series is a quad output enclosed power supply with PFC function. Protections including short circuit, overload and over voltage. Forced air cooling by built-in DC fan allows an operating temperature of -10~+60°C. With a fixed switching frequency at 100KHz enabling designs to avoid interference with system clock frequencies.

**Applications**

General electronic equipment

Factory automation  
 Instrumentation  
 Moving Sign  
 Telecommunications  
 Data communications



**Features**

Universal AC input / Full range  
 Built-in active PFC function, PF>0.94  
 Protections: Short circuit/Over load/Over voltage  
 Forced air cooling by built-in DC fan  
 Fixed switching frequency at 100KHz(Optional)



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
TP-150A	5V	15A	150W	100mV	75%
	12V	6A		120mV	
	-5V	1A		100mV	
TP-150B	5V	15A	148.2W	100mV	77%
	12V	6A		120mV	
	-12V	1A		100mV	
TP-150C	5V	15A	152W	100mV	77%
	15V	4.5A		150mV	
	-15V	1A		100mV	
TP-150D	5V	15A	154.2W	100mV	78%
	24V	3A		150mV	
	12V	1A		100mV	

**Description**

The TP-150 series is an AC-DC triple output enclosed power supply with PFC function. Forced air cooling by built-in DC fan allows an operating temperature of -10~+60°C. With a fixed switching frequency at 100KHz enabling designs to avoid interference with system clock frequencies (Optional).



Universal AC input with active power factor correction,  
 P.F.>0.95  
 Built in EMI filter, low ripple noise  
 Over load, over voltage & short circuit protection  
 Over temperature protection (optional)  
 Output voltage  $\pm 10\%$  adjustment  
 Remote Control ON/OFF (optional)  
 Non min. load requirement  
 100% 50°C burn-in test  
 UL, cUL, TUV, ,CB, CE approved



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
SPS-151P-3-3	3.3V	30A	100W	50mV	69%
SPS-151P-05	5V	30A	150W	70mV	75%
SPS-151P-7-5	8V	20A	150W	80mV	70%
SPS-151P-12	12V	12.5A	150W	100mV	80%
SPS-151P-15	15V	10A	150W	120mV	80%
SPS-151P-24	24V	6.3A	150W	150mV	83%
SPS-151P-27	27V	6A	150W	180mV	84%
SPS-151P-48	48V	3.2A	150W	250mV	84%





### Features

- Low cost, high reliability
- 105°C output capacitor
- International AC input range
- High efficiency, low working temperature
- Soft-start circuit, limiting AC surge current
- Short circuit, over load and over voltage protection
- 100% full load burn-in test
- Built in EMI filter, low ripple & noise



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
AD-155A	14V	10.5A	152W	150mV	80%
	13.3V	0.5A			
AD-155B	28V	5A	152W	150mV	84%
	27.1V	0.5A			
AD-155C	54V	3A	156.5W	240mV	84%
	54V	0.2A			



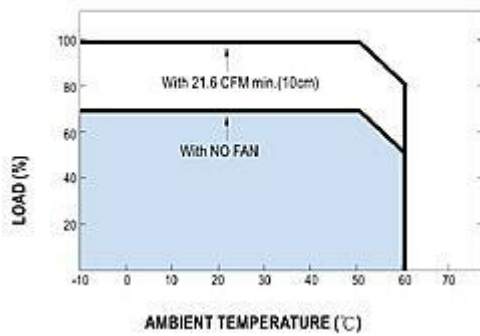
### Features

- Universal AC input / Full range
- Built-in active PFC function, PF>95
- Short circuit/Over load/Over voltage Protection
- Battery low/battery polarity protections
- Cooling by free air convection
- 100% full load burn-in test
- Fixed switching frequency at PFC 67KHz, PWM 134KHz
- UPS Function

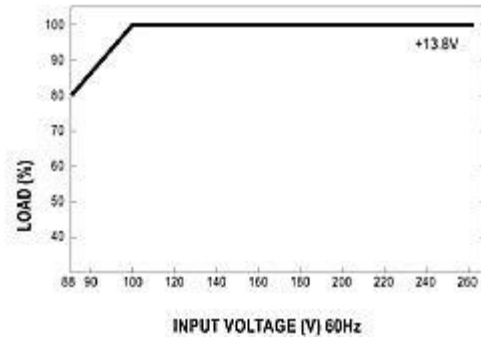


Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
ADD-155A	14V	10A	153W	150mV	78%
	5V	3A		100mV	
	13.3V	0.5A			
ADD-155B	28V	4.5A	153W	200mV	81%
	5V	3A		100mV	
	27.1V	0.5A			
ADD-155C	54V	2.3A	150W	240mV	81%
	5V	3A		100mV	
	54V	0.2A			

Derating Curve



Output Derating VS Input Voltage (A)



Access control systems  
 Emergency lighting systems  
 Alarm systems  
 UPS systems  
 Central monitoring systems



**Features**

- 90-264VAC Universal AC input
- L-bracket base and cover to enclose
- Built-in Active PFC function
- Short circuit, over load, over voltage protections
- Battery low protection / Battery polarity protection by fuse
- Relay contact signal output for AC OK and Battery low
- Cooling by free air convection
- 100% full load burn-in test
- 6"x3" compact size



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
PSC-160A-C	13.8V	7.6A	160W	150mV	88%
	13.8V	4A			
PSC-160B-C	27.6V	3.8A	160W	240mV	90%
	27.6V	2A			

**Description**

PSC-160-C Series is our standard 160W AC/DC PCB type security power supply, with 6â€x3â€ footprint, but fitted with an L-bracket and cover to encase the unit. The power supply has a universal input range between 90VAC and 264VAC and incorporates a built-in PFC function. In addition to the primary output there is a charger output that provides the backup power supply application required by access and security systems. PSC-160-C Series still delivers up to 90% high efficiency and can operate with air convection at temperatures of -30C through to 70C. This series is designed with thorough alarm features, including AC OK and battery low signalling; there is also a relay contact provided to facilitate user system design.



AC input 88V ~ 132V or 175V ~264V selected by switch  
 Built-in EMI filter, low ripple noise  
 Over load, over voltage, short circuit protection  
 Output voltage  $\pm 10\%$  adjustment  
 100% 50°C burn-in test  
 Meet UL, cUL, TUV ,CB, CE standard



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
SPS-170P-3-3	5V	30A	99W	50mV	69%
SPS-170P-05	5V	30A	150W	30mV	75%
SPS-170P-7-5	8V	21A	158W	100mV	77%
SPS-170P-12	12V	14.2A	170W	100mV	80%
SPS-170P-15	15V	11.4A	170W	120mV	80%
SPS-170P-24	24V	7.1A	170W	240mV	83%
SPS-170P-28	28V	6.1A	170W	240mV	84%
SPS-170P-48	48V	4A	170W	240mV	84%



Universal AC input/full range  
 Built-in active PFC function, PF $\geq$ 0.94  
 High efficiency up to 86%  
 Protections: Short circuit/Overload/Over Voltage/Over Temperature  
 Cooling by free air convection  
 1U low profile 36mm  
 Conformal coated  
 ZVS technology to reduce power dissipation



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
HDP-190	5V	20A	100W	100mV	86%

Instruments

LED displays

Applications requiring a low profile installation



### Features

Universal AC input/full range

Built-in active PFC function, PF>0.95

Protections: Short circuit/Overload/Over voltage/Over temperature

Cooling by free air convection

1U low profile 30mm

Optional conformal coating models (RSP-200-CC)

LED indicator for power on



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
RSP-200-2-5	2.5V	40A	100W	100mV	81.5%
RSP-200-3-3	3.3V	40A	132W	100mV	84%
RSP-200-4	4V	40A	160W	100mV	85.5%
RSP-200-5	5V	40A	200W	150mV	87%
RSP-200-7-5	7.5V	26.7A	200.25W	150mV	89%
RSP-200-12	12V	16.7A	200.4W	150mV	89%
RSP-200-13-5	13.5V	14.9A	201.15W	150mV	89%
RSP-200-15	15V	13.4A	201W	150mV	89.5%
RSP-200-24	24V	8.4A	201.6W	150mV	89.5%
RSP-200-27	27V	7.5A	202.5W	200mV	89%
RSP-200-36	36V	5.56A	200.16W	220mV	90%
RSP-200-48	48V	4.2A	201.6W	240mV	90%

### Description

The RSP-200 is a 200W single output enclosed power supply with PFC function >0.95. With a 1U low profile of 30mm the series are suitable for applications requiring a low profile installation. Cooling by free air convection allows an operating temperature of -30~+70°C, other functions of the RSP-200 series include protection for short circuit, overload, over voltage and over temperature.



Charging  
 General electronic machinery or equipment  
 Automation  
 Test equipment  
 Charge and Sync Tablet Carry Cases



**Features**

Universal AC input/Full range  
 Built-in active PFC function, PF>0.93  
 Protections: Short circuit/Overload/Over voltage/Over temperature  
 Built-in cooling fan speed control  
 Built-in constant current limiting circuit  
 Built-in fan speed control  
 Remote ON-OFF control (optional)  
 LED indicator for power on  
 100% full load burn-in test  
 Fixed switching frequency at PFC:67KHz PWM:134KHz



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
SP-200-3-3	3.3V	40A	132W	100mV	71%
SP-200-5	5V	40A	200W	100mV	77%
SP-200-7-5	8V	27A	200.2W	100mV	78.5%
SP-200-12	12V	17A	200.4W	100mV	84%
SP-200-13-5	14V	15A	201.1W	100mV	83.5%
SP-200-15	15V	13.4A	201W	100mV	84%
SP-200-24	24V	8.4A	202W	100mV	85%
SP-200-27	27V	8A	202.5W	100mV	85%
SP-200-48	48V	4.2A	202W	150mV	85%

**Description**

A 200W single output enclosed PFC function power supply, with built in active PFC function, PF>0.93. Built-in cooling fan with speed control, LED indicator for power on and an optional ON-OFF control.



### Features

- Universal AC input
- Built-in active PFC function, PF>0.95
- Short circuit, over load, over voltage, over temperature protections
- Forced air cooling by built-in DC fan
- CH1,2 can be adjustable from -5~+10%
- With power good and fail signal output(Optional)
- Built-in remote sense function for CH1,2
- 100% full load burn-in test
- CH4 can set to positive voltage, after consultation, prior to delivery
- Fixed switching frequency at PFC:67KHz
- PWM:134KHz(Optional)



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
QP-200D	5V	15A	203.4W	100mV	75%
	12V	4A		150mV	
	24V	3A		150mV	
	-12V	1A		150mV	
QP-200F	5V	15A	202.5W	100mV	75%
	15V	3A		150mV	
	24V	3A		150mV	
	-15V	1A		150mV	
QP-200-3A	5V	15A	200W	100mV	72%
	3.3V	15A		100mV	
	12V	6A		150mV	
	-5V	1A		150mV	
QP-200-3B	5V	15A	205W	100mV	72%
	3.3V	15A		100mV	
	12V	6A		150mV	
	-12V	1A		150mV	
QP-200-3C	5V	15A	210W	100mV	72%
	3.3V	15A		100mV	
	15V	5A		150mV	
	-15V	1A		150mV	
QP-200-3D	5V	10A	204W	100mV	74%
	3.3V	15A		100mV	
	24V	4A		150mV	
	-12V	1A		150mV	
QP-200-3E	5V	10A	206W	100mV	74%
	3.3V	15A		100mV	
	24V	4A		150mV	
	-15V	1A		150mV	

#### Applications

- General electronics
- Factory automation



### Features

- Universal AC input
- Built-in active PFC function, PF>0.95
- High efficiency up to 89% (typ.)
- Short circuit, over load, over voltage, over temperature protections
- Withstand 300VAC surge input for 5 seconds
- Cooling by free air convection
- Built-in constant current limiting circuit
- 1U low profile 38mm
- Built-in ON-OFF control
- Built-in remote sense function
- Stand by 5V@0.3A
- No load power consumption <0.5A



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
HRPG-200-3-3	3.3V	40A	132W	80mV	80%
HRPG-200-5	5V	35A	175W	90mV	84%
HRPG-200-7-5	8V	27A	200.3W	100mV	86%
HRPG-200-12	12V	17A	200.4W	120mV	88%
HRPG-200-15	15V	13.4A	201W	150mV	88%
HRPG-200-24	24V	8.4A	202W	150mV	88%
HRPG-200-36	36V	6A	205.2W	250mV	89%
HRPG-200-48	48V	4.3A	206.4W	250mV	89%

### Description

HRPG-200 Series are 200W AC/DC miniature enclosed type power supplies with PFC function that fulfil the requirement of EN61000-3-2 for harmonic current with remote ON/OFF control and 5V/0.3A standby output to achieve no load power consumption <0.5W. Other standard functions of HRPG-200 include 300VAC input surge immunity for 5 seconds, remote sense, LED indicator, heavy industry level of EMS immunity(EN61000-6-2), and protection for short-circuit, overload (constant current limiting), over voltage, and over temperature.

### Applications

- General electronic application
- Factory automation



**Features**

- Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- High efficiency up to 89%
- Short circuit, over load, over voltage, over temperature protections
- Withstand 300VAC surge input for 5 seconds
- Cooling by free air convection
- Built-in constant current limiting circuit
- 1U low profile 38mm
- Built-in remote sense function



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
HRP-200-3-3	3.3V	40A	132W	80mV	80%
HRP-200-5	5V	35A	175W	90mV	84%
HRP-200-7-5	8V	27A	200.3W	100mV	86%
HRP-200-12	12V	17A	200.4W	120mV	88%

**Description**

HRP-200 Series are 200W AC/DC enclosed type power supplies with built in active PFC function. With a 1U low profile of 38mm and cooling by free air convection allows an operating temperature of -40~+70 °C.



- Power ON with LED indicator
- Built in EMI filter, low ripple noise
- Universal AC input with active power factor correction, P.F.>0.95
- Over load, over voltage protection
- Short circuit shutdown and Auto recovery
- Output voltage  $\pm 10\%$  adjustment
- Over temperature protection(Optional)
- Remote Control ON/OFF (Optional)
- Non min. load requirement
- 100% 50°C burn-in test
- Built-in long life ball bearing fan
- UL, cUL, TUV, CB, CE approved



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
SPS-220P-3-3	3.3V	40A	132W	50mV	69%
SPS-220P-05	5V	40A	200W	70mV	75%
SPS-220P-12	12V	18.4A	220W	100mV	80%
SPS-220P-15	15V	15A	220W	120mV	80%
SPS-220P-24	24V	9.2A	220W	150mV	83%
SPS-220P-27	27V	8.2A	220W	180mV	84%
SPS-220P-48	48V	5A	220W	250mV	84%

**USP-225 Series - 225W Single Output U-Bracket PFC Function Power Supply**

**Applications**

- General electronic equipment
- Low profile applications



**Features**

- U-bracket low profile:38mm
- High power density 4.7w/in
- Universal AC input / full range
- Built in active PFC circuit
- Active AC surge current limiting
- Protections: Short circuit/Over load/Over voltage
- Air convection for 150W (free) and 225W (forced)
- \*\*Please note that values are for forced air cooling\*\*



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
USP-225-3-3	3.3V	40A	132W	100mV	72%
USP-225-5	5V	40A	200W	100mV	77%
USP-225-12	12V	19A	224.4W	100mV	83%
USP-225-15	15V	15A	225W	100mV	84%
USP-225-24	24V	9.4A	226W	150mV	85%
USP-225-48	48V	5A	226W	250mV	86%

**Description**

The USP-225 Series is a single output U-bracket power supply with PFC function. A highly efficient power supply at 93%, protections including, short circuit, overload, over voltage and over temperature. Cooling by free air convection allows an operating temperature of -20~+65°C. \*\*Please note that values are for forced air cooling\*\*

**Features**

Universal AC input with active power factor correction,





P.F.>0.95

Built in EMI filter, low ripple noise

Over load, over voltage, short circuit protection

Output voltage  $\pm 10\%$  adjustment

Remote Control ON/OFF (Optional)

Non min load requirement

100% 50°C burn-in test



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
SPS-230P-3-3	3.3V	40A	132W	50mV	69%
SPS-230P-05	5V	40A	200W	70mV	75%
SPS-230P-7-5	8V	31A	230W	80mV	77%
SPS-230P-12	12V	19.2A	230W	100mV	80%
SPS-230P-15	15V	15.4A	230W	120mV	80%
SPS-230P-24	24V	10A	230W	150mV	83%
SPS-230P-27	27V	9A	230W	180mV	84%
SPS-230P-48	48V	5A	230W	250mV	84%



High efficiency, high reliability  
 Built in EMI filter, low ripple noise  
 AC input 90~132 V / 180~264V auto sensing  
 Over load, over voltage, short circuit protection  
 Built-in long life Ball-bearing FAN  
 100% 50° burn-in test  
 UL, cUL, TUV, CB, CE standard



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
SPU-230-D1	8V	30A	230W	80mV	73%
	5V	4A		70mV	
SPU-230-D2	12V	18A	230W	120mV	75%
	5V	4A		70mV	
SPU-230-D3	24V	9A	230W	240mV	76%
	5V	4A		70mV	



### Features

- High efficiency, high reliability
- Built in EMI filter, low ripple noise
- AC 90~132 V / 180~264V auto sensing
- Frequency 47~63 Hz
- Over load, over voltage, short circuit protection
- Built-in long life Ball-bearing FAN
- 100% 50° burn-in test
- UL, cUL, TUV, ,CB, CE standard



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
SPU-230-Q1	5V	35A	230W	50mV	74%
	12V	12A		120mV	
	-12V	2A		240mV	
	-5V	2A		100mV	
SPU-230-Q2	5V	30A	230W	50mV	74%
	15V	10A		150mV	
	-15V	2A		300mV	
	-5V	2A		100mV	
SPU-230-Q3	5V	25A	230W	50mV	74%
	12V	10A		100mV	
	-12V	2A		240mV	
	24V	3A		240mV	

Industrial automation  
 Moving sign  
 Electronic equipment  
 Instrumentation



**Features**

- Universal AC input / Full Range
- Built-in active PFC function, PF>0.95
- Short circuit, over load, over voltage, over temperature protections
- Forced air cooling by built-in DC fan
- Built-in fan ON/OFF control
- LED indicator for power on
- UL, cUL, TUV, CE & CB Approvals
- Fixed switching frequency at 90KHz



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
SP-240-5	5V	45A	225W	150mV	79%
SP-240-7.5	8V	32A	240W	150mV	83%
SP-240-12	12V	20A	240W	150mV	86%
SP-240-15	15V	16A	240W	150mV	86%
SP-240-24	24V	10A	240W	150mV	87%
SP-240-30	30V	8A	240W	150mV	87%
SP-240-48	48V	5A	240W	150mV	89%

**Description**

SP-240 is a reduced profile version of the ever popular S-240 Series with efficiency 1~4% higher and Active PFC function. With 88 to 264VAC full range input and output voltage options of 5V, 7.5V, 12V, 15V, 24V, 30V & 48V. Standard functions include adjustable output voltage, built-in fan ON/OFF control and short circuit, over load, over voltage and over temperature protections.



### Features

- AC input 88V ~ 132V or 175V ~ 264V, select by switch
- P.F.C. function
- Built in EMI filter, low ripple noise
- Over load, over voltage, short circuit protection
- Output voltage  $\pm 10\%$  adjustment
- Remote Control ON/OFF (Optional)
- Non min load requirement
- 100% 50° burn-in test
- Meet UL, cUL, TUV, CB, CE standard



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
SPS-240P-12	12V	20A	240W	100mV	80%

LED TV wall  
 LED channel letter related applications



**Features**

- Universal AC input/Full range
- Built-in active PFC function, PF≥0.94
- High efficiency up to 84%
- Protections: Short circuit/Overload/Over voltage/Over temperature
- Forced air cooling by built-in DC fan
- 1U low profile 36mm
- Conformal coated
- Built-in cooling fan ON-OFF control
- ZVS technology to reduce power dissipation
- LED indicator for power on



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
HDP-240 Series	3.8V	41.5A	240W	100mV	84%
	2.8V	25A			

**Description**

The HDP-240 series is a highly efficient enclosed type power supply with a 1U low profile, active PFC function and low voltage dual output. With a built-in DC fan and a new system design concept enabling the power supply to drive RGB LED chips by 3.8/2.8V outputs, it is ideal for LED moving sign applications.

**Applications**

General electronic equipment





**Features**

- AC input range selected by switch
- Protections: Short circuit/Over load/Over voltage
- Forced air cooling by built-in DC fan
- 100% full load burn-in test
- Fixed switching frequency at 75KHz
- Low cost
- High reliability



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
Q-250B	5V	20A	201W	80mV	73%
	12V	7A		120mV	
	-12V	1A		120mV	
	-5V	1A		50mV	
Q-250C	5V	20A	195W	80mV	74%
	15V	5A		150mV	
	-15V	1A		150mV	
	-5V	1A		50mV	
Q-250D	5V	10A	242W	80mV	78%
	12V	5A		120mV	
	24V	5A		240mV	
	12V	1A		120mV	
Q-250F	5V	10A	246W	80mV	78%
	15V	4A		150mV	
	24V	5A		240mV	
	-15V	1A		150mV	

**Description**

The Q-250 Series is a low cost, highly reliable 250W quad output AC-DC enclosed power supply with a selectable AC input range. A high operating temperature of -10~+60°C due to forced air cooling by the built-in Dc fan. Protections including short circuit, over load and over voltage. Fixed switching frequency at 75KHz.



Universal AC input / Full range  
 Built-in active PFC function, PF>0.95  
 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  
 Conformal coated  
 Built-in cooling fan ON-OFF control  
 Built-in remote sense function



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
HSP-250-2-5	2.5V	50A	125W	100mV	79%
HSP-250-3-6	4V	50A	180W	100mV	83%
HSP-250-5	5V	50A	250W	100mV	87%

### Description

The HSP-250 series is a 250W Single Output enclosed power supply with PFC function. Forced air cooling by built-in DC fan allows an operating temperature of -40~+70°C. Protections including short circuit, overload, over voltage and over temperature.

### HRP-300 Series - 300W High Reliability Enclosed Power Supply with PFC Function

#### Applications

General electronic applications  
 Factory automation

LED moving signs  
Test and measurement equipment



### Features

- Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- High efficiency up to 89% (typ.)
- Short circuit, over load, over voltage, over temperature protections
- With DC OK signal output
- Withstand 300VAC surge input for 5 seconds
- Built-in constant current limiting circuit
- 1U low profile 41mm
- Built-in cooling Fan ON-OFF control (load)
- Built-in remote sense function



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
HRP-300-3-3	3.3V	60A	198W	80mV	79%
HRP-300-5	8V	40A	300W	100mV	82%
HRP-300-7-5	8V	40A	300W	100mV	86%
HRP-300-12	12V	27A	324W	120mV	88%
HRP-300-15	15V	22A	330W	150mV	88%
HRP-300-24	24V	14A	336W	150mV	87%
HRP-300-36	36V	9A	324W	250mV	88%
HRP-300-48	48V	7A	336W	250mV	89%

### Description

HRP-300 are a range of miniature high reliability enclosed power supplies featuring high efficiency, active PFC function and a miniature 1U rack style profile. Possessing up to 89% of high efficiency, it can be cooled by the built-in long life DC fan from -30°C to +50°C ambient temperature under full load condition. Other features include 300VAC input surge immunity for 5 seconds, remote sense function and short circuit, over load (constant current mode), over voltage and over temperature protections.

### Applications

- General electronic applications
- Factory automation

LED moving signs  
 Test and measurement equipment



**Features**

- Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- High efficiency up to 89% (typ.)
- Short circuit, over load, over voltage, over temperature protections
- With DC OK signal output
- Withstand 300VAC surge input for 5 seconds
- Built-in constant current limiting circuit
- 1U low profile 41mm
- Built-in cooling Fan ON-OFF control
- Built-in remote sense function
- Built-in remote ON-OFF control
- Standby 5V@0.3A
- No load power consumption<0.5W



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
HRPG-300-3-3	3.3V	60A	198W	80mV	80%
HRPG-300-5	5V	60A	300W	90mV	82%
HRPG-300-7-5	8V	40A	300W	100mV	86%
HRPG-300-12	12V	27A	324W	120mV	88%
HRPG-300-15	15V	22A	330W	150mV	88%
HRPG-300-24	24V	14A	336W	150mV	87%
HRPG-300-36	36V	9A	324W	250mV	88%
HRPG-300-48	48V	7A	336W	250mV	89%

**Description**

HRPG-300 are a range of miniature high reliability enclosed power supplies with +5Vsb featuring no load power consumption <0.5W, high efficiency, active PFC function and a miniature 1U rack style profile. Possessing up to 89% of high efficiency, it can be cooled by the built-in long life DC fan from -30°C to +50°C ambient temperature under full load condition. Other features include 300VAC input surge immunity for 5 seconds, remote sense function and short circuit, over load (constant current mode), over voltage and over temperature protections.

**Applications**

- LCD panel burn-in systems
- IC testing equipment

Factory automation  
Mechanical and electrical industry



### Features

Universal AC input / Full range  
Built-in active PFC function, PF>0.95  
Short circuit, over load, over voltage, over temperature protections  
Forced air cooling by built in DC fan  
Built in fan speed control  
Fixed switching frequency at 100KHz  
Output voltage programmable from 20~110% by 1~5.5VDC external control signal



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
SPV-300-12	12V	25A	300W	150mV	84%
SPV-300-24	24V	12.5A	300W	150mV	85%
SPV-300-48	48V	6.25A	300W	240mV	86.5%

### Description

SPV-300 Series are a programmable output 300W single output enclosed power supply range with efficiency up to 83% and built in active PFC >0.94. These enclosed power supplies also have remote on/off control, fan speed control and full protections.

### SP-320 Series - 320W Single Output PFC Function Power Supply

#### Applications

Industrial automation  
Moving sign



### 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 fan speed control
- Fixed switching frequency at 100KHz



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
SP-320-3-3	3.3V	55A	182W	150mV	74%
SP-320-5	5V	55A	275W	150mV	79%
SP-320-7-5	8V	40A	300W	150mV	83%
SP-320-12	12V	25A	300W	150mV	86%
SP-320-13-5	14V	22A	297W	150mV	86%
SP-320-15	15V	20A	300W	150mV	86%
SP-320-24	24V	13A	312W	150mV	87%
SP-320-27	27V	12A	316W	200mV	88%
SP-320-36	36V	9A	317W	220mV	87%
SP-320-48	48V	7A	322W	240mV	89%

### Description

The SP-320 series is a single output power supply with built-in active PFC function. Protections including short circuit, overload, over voltage and over temperature. Forced air cooling by built-in DC fan with fan speed control.

### Applications

- Industrial control systems
- Instruments



LED displays

Application requiring low profile installations



### Features

- 30mm low profile design for 1U installation
- Universal AC input range 88~264V
- Built-in active PFC function
- High efficiency up to 90%
- Forced air cooling by built-in DC fan with speed control function
- 30~+70°C operating temperature
- Protection: Short circuit/Overload/Over voltage/Over temperature
- LED indicator
- Optional conformal coating models (RSP-320-CC)



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
RSP-320-2-5	2.5V	60A	150W	100mV	79.5%
RSP-320-3-3	3.3V	60A	198W	100mV	82%
RSP-320-4	4V	60A	240W	100mV	84.5%
RSP-320-5	5V	60A	300W	150mV	85%
RSP-320-7-5	7.5V	40A	300W	150mV	88%
RSP-320-12	12V	26.7A	320.4W	150mV	88%
RSP-320-13-5	13.5V	23.8A	321.3W	150mV	88%
RSP-320-15	15V	21.4A	321W	150mV	88.5%
RSP-320-24	24V	13.4A	321.6W	150mV	89%
RSP-320-27	27V	11.9A	321.3W	200mV	89%
RSP-320-36	36V	8.9A	320.4W	220mV	89.5%
RSP-320-48	48V	6.7A	321.6W	240mV	90%

### Description

The RSP-320 series is a 320W economical enclosed power supply with a 30mm low profile design for 1U installations. Standard features of the RSP-320 series are, PFC function, high efficiency of up to 90% and forced air cooling by built-in DC fan. Suitable applications include general industrial control systems, mechanical & electrical industry instruments and LED displays or any systems requiring a low profile.

### QP-320 Series - 320W Quad Output PFC Enclosed Power Supply

#### Applications

- Motor based machinery
- Gaming machines,
- Lottery vending machines

Factory automation  
Instrumentation  
Other general electronics



### Features

Universal AC input/full range  
20A peak load capability for 25V channel  
Built-in active PFC circuit  
Short circuit, over load, over voltage and over temperature protection  
Built in remote sense function  
Power fail/Power good signal output  
CH1 & CH2 can be adjusted -5 to +10% rated voltage



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
QP-320D	5V	20A	316W	100mV	83%
	12V	10A		150mV	
	24V	3A		150mV	
	-12V	2A		150mV	
QP-320F	5V	20A	316W	100mV	83%
	15V	8A		150mV	
	24V	3A		150mV	
	-15V	2A		150mV	

### Description

QP-320 Series are 320W quad output enclosed type switching power supplies with power factor correction (PFC) function. Featuring 20A/1ms peak current capability for the 24V channel, which is repeatable every 100ms, QP-320 series can provide the power demand for operating motor based machinery. Alongside the standard functions of remote sense and PF/PG signal output the output voltage of CH1 & CH2 can be adjusted from -5 to +10%, which gives users more flexibility for use in different kinds of application.

### USP-350 Series - 350W Single Output U-Bracket PSU with PFC Function

#### Applications

General electronic equipment  
Low profile applications  
Embedded power solutions



### Features

- Universal AC input / Full range
- Built in active PFC circuit compliance to EN61000-3-2
- Protections: Short circuit/Over load/Over voltage/Over temperature
- Free air convection for 300W and 350W with 23.5CFM forced air
- High power density 5.6w/in<sup>3</sup>
- Active AC surge current limiting
- U-bracket low profile: 38mm
- ZVS technology to reduce power dissipation
- \*\*Please note that values are for forced air cooling, please see PDF for convection cooled values\*\*



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
USP-350-3-3	3.3V	70A	131W	80mV	78%
USP-350-5	5V	70A	350W	80mV	84%
USP-350-12	12V	29.2A	350.4W	100mV	88%
USP-350-15	15V	23.4A	351W	100mV	88%
USP-350-24	24V	15A	350.4W	150mV	88%
USP-350-48	48V	7.3A	350.4W	150mV	89%

### Description

The USP-350 series single output U-bracket power supply with PFC function. A high power density of 5.6w/in<sup>3</sup> and a low profile of 38mm. Protections including short circuit, over load, over voltage and over temperature. \*\*Please note that values are for forced air cooling, please see PDF for convection cooled values\*\*

### QP-375 Series - 375W Quad Output PFC Function Power Supply

**Applications:** General electronic machinery, Factory automation, Instrumentation, Moving Signs, Telecommunications

### Features

- Universal AC input
- Built-in active PFC function PF>0.95
- Short circuit, Over load, Over voltage, Over temperature



protections  
 Forced air cooling by built-in DC fan  
 3rd & 4th output are isolated from other outputs and the polarity can be reversed  
 No minimum load requirement for 2nd, 3rd & 4th output  
 Outputs adjustable from -5 ~ +10%  
 Power good and fail signal output  
 Built-in remote ON-OFF control  
 Fixed switching frequency at 100KHz



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
QP-375-5A	5V	30A	378W	100mV	77%
	12V	10A		150mV	
	12V	6A		150mV	
	12V	3A		50mV	
QP-375-5B	5V	30A	357W	100mV	77%
	12V	10A		120mV	
	12V	6A		120mV	
	5V	3A		50mV	
QP-375-5C	5V	30A	378W	100mV	77%
	12V	9A		150mV	
	15V	4A		150mV	
	15V	4A		240mV	
QP-375-5D	5V	30A	378W	100mV	78%
	12V	9A		120mV	
	12V	4A		120mV	
	24V	3A		240mV	
QP-375-5E	5V	30A	378W	100mV	78%
	12V	9A		120mV	
	24V	3A		120mV	
	24V	2A		240mV	
QP-375-24B	24V	10A	386W	240mV	78%
	5V	10A		50mV	
	12V	4A		120mV	
	12V	4A		120mV	
QP-375-24C	24V	10A	410W	240mV	80%
	5V	10A		50mV	
	15V	4A		150mV	
	15V	4A		150mV	

**Description**

The QP-375 series is a 375W quad output enclosed power supply with built-in active PFC function. Protections including, short circuit, overload, over voltage and over temperature. Forced air cooling by built-in DC fan allows an operating temperature of -10~+60°C. With a fixed switching frequency at 100KHz enabling designs to avoid interference with system clock frequencies.

**QP-375-24 Series - 375W Quad Output Enclosed Power Supply with PFC Function**

**Applications**

General electronic machinery

Factory Automation  
 Instrumentation  
 Moving signs  
 Telecommunications  
 Data communications



**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
- CH3,4 are isolated from other output and the polarity can be reversed
- No minimum load requirement for CH2,3,4
- All outputs can be adjustable from -5~+10%
- With power good and fail signal output
- Built-in remote ON-OFF control
- Fixed switching frequency at 100KHz



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
QP-375-24B	24V	10A	386W	240mV	78%
	5V	10A		50mV	
	12V	4A		120mV	
	12V	4A		120mV	
QP-375-24C	24V	10A	410W	240mV	80%
	5V	10A		50mV	
	15V	4A		150mV	
	15V	4A		150mV	

**Description**

The QP-375-24 Series is a 375W quad output enclosed power supply with built-in active PFC function. Protections including short circuit, overload, over voltage and over temperature. Forced air cooling by built-in DC fan allows an operating temperature of -10~+60°C. Channel 3 and 4 are isolated from other outputs so the polarity can be reversed. With fixed switching frequency at 100Khz enabling designs to avoid interference with system clock frequencies.

**Applications**

General electronic applications

Factory automation  
 LED moving signs  
 Test and measurement equipment



**Features**

- Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- High efficiency up to 89.5% (typ.)
- Short circuit, over load, over voltage, over temperature protections
- With DC OK signal output
- Withstand 300VAC surge input for 5 seconds
- Built-in constant current limiting circuit
- 1U low profile 41mm
- Built-in cooling Fan ON-OFF control (load)
- Built-in remote sense function



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
HRP-450-3-3	3.3V	90A	297W	80mV	80%
HRP-450-5	5V	90A	450W	80mV	83%
HRP-450-7-5	8V	60A	450W	100mV	86.5%
HRP-450-15	15V	30A	450W	150mV	89%
HRP-450-24	24V	19A	451.2W	150mV	88%
HRP-450-36	36V	12.5A	450W	240mV	89%
HRP-450-48	48V	10A	456W	240mV	90%

**Description**

HRP-450 are a range of miniature high reliability enclosed power supplies featuring high efficiency, active PFC function and a miniature 1U rack style profile. Possessing up to 89.5% of high efficiency, it can be cooled by the built-in long life DC fan from -40°C to +85°C ambient temperature under full load condition. Other features include 300VAC input surge immunity for 5 seconds, remote sense function and short circuit, over load (constant current mode), over voltage and over temperature protections.

**Applications**

General electronics



Factory automation  
 Moving signs  
 Test and measurement equipment



**Features**

- Universal AC input
- Built-in active PFC function, PF>0.95
- High efficiency up to 88% (typ.)
- Short circuit, over load, over voltage, over temperature protections
- Withstand 300VAC surge input for 5 seconds
- Cooling by free air convection
- Built-in constant current limiting circuit
- 1U low profile 38mm
- Built-in ON-OFF control
- Built-in remote sense function
- Stand by 5V@0.3A
- No load power consumption <0.5A



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
HRPG-450-3-3	3.3V	90A	297W	80mV	80%
HRPG-450-5	5V	90A	450W	80mV	83%
HRPG-450-7-5	8V	60A	450W	100mV	86.5%
HRPG-450-12	12V	38A	450W	120mV	88%
HRP-450-12	12V	38A	450W	120mV	88%
HRPG-450-15	15V	30A	450W	150mV	89%
HRPG-450-24	24V	19A	451.2W	150mV	88%
HRPG-450-36	36V	12.5A	450W	240mV	89%
HRPG-450-48	48V	10A	456W	240mV	90%

**Description**

HRPG-150 Series are 150W AC/DC miniature enclosed type power supplies with PFC function that fulfil the requirement of EN61000-3-2 for harmonic current with remote ON/OFF control and 5V/0.3A standby output to achieve no load power consumption <0.5W. Other standard functions of HRPG-150 include 300VAC input surge immunity for 5 seconds, remote sense, LED indicator, heavy industry level of EMS immunity(EN61000-6-2), and protection for short-circuit, overload (constant current limiting), over voltage, and over temperature.



**Features**

- Universal input voltage
- Uses ZVS technology to reduce power dissipation and improve efficiency
- Large range of output configurations available
- Remote control on each module
- Remote sense on MS-75, 150 & 300 modules
- Built in active PFC, PF>0.95
- Built in parallel function on MS-300
- Fan alarm function
- Forced air cooling



**MS-75 Series - 75W Single Output 1 Slot Modular Power Supplies**



**Features**

- For installation in MP450, MP650 & MP1K0 Modules

Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)
MS-75L	3.3V	15A	75W	80mV
MS-75M	5V	15A	75W	80mV
MS-75N	12V	0.63A	75W	150mV
MS-75O	15V	5A	75W	150mV
MS-75P	24V	3.2A	75W	150mV
MS-75Q	48V	1.6A	75W	250mV

**MS-150 Series - 150W Single Output 1 Slot Modular Power Supplies**



### Features

For installation in MP450, MP650 & MP1K0 Modules

Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)
MS-150A	2V	25A	150W	50mV
MS-150B	3.3V	25A	150W	80mV
MS-150C	5V	25A	150W	80mV
MS-150D	7.5V	18A	150W	100mV
MS-150E	12V	13A	150W	150mV
MS-150F	15V	10A	150W	150mV
MS-150G	18V	8.5A	150W	150mV
MS-150H	24V	6.5A	150W	150mV
MS-150I	27V	5.8A	150W	150mV
MS-150J	33V	4.7A	150W	250mV
MS-150K	48V	3.2A	150W	250mV

### MS-300 Series - 300W Single Output parallel able 2 Slot Modular Power Supplies



### Features

For installation in MP450, MP650 & MP1K0 Modules

Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)
MS-3002A	2V	50A	300W	80mV
MS-3002B	3.3V	50A	300W	80mV
MS-3002C	5V	50A	300W	80mV
MS-3002D	7.5V	40A	300W	100mV
MS-3002E	12V	25A	300W	150mV
MS-3002F	15V	20A	300W	150mV
MS-3002G	18V	16.7A	300W	150mV
MS-3002H	24V	12.5A	300W	150mV
MS-3002I	27V	11.2A	300W	200mV
MS-3002J	33V	9.1A	300W	250mV
MS-3002K	48V	6.3A	300W	300mV

**Features**

For installation in MP450, MP650 & MP1K0 Modules



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)
MD-100R	5V	10A	90W	100mV
	5V	8A	90W	100mV
MD-100S	5V	10A	100.4W	100mV
	12V	5.8A	100.4W	150mV
MD-100T	5V	15A	101W	100mV
	10V	4.7A	101W	150mV
MD-100U	24V	3A	100W	200mV
	5V	10A	100W	100mV
MD-100V	24V	3A	100.8W	240mV
	12V	4.7A	100.8W	120mV
MD-100W	12V	5A	100.8W	120mV
	12V	5.8A	100.8W	120mV
MD-100X	15V	4.7A	100.5W	150mV
	15V	4.7A	100.5W	150mV

**Description**

Switching power supplies with modular design that consists of 2 stages; Front end PFC and output modules. Using zero voltage switching technology to realize the power factor correction, the line input is rectified into high DC voltage 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 to 53V. There are currently 75W, 150W, 300W single output modules and 100W dual output modules to fulfil all kinds of applications up to 14 isolated outputs. There are millions of combinations available for the modular series. You can configure the DC outputs needed to get the fastest solution for your power requirements with safety and EMC certificates. No more NRE/safety application charges and long periods of waiting for certificates to come through! This is a revolutionary standard power solution that fulfils your custom made request!

## Applications

Industrial automation  
Moving sign  
Electronic equipment  
Instrumentation



## Features

Universal AC input / Full range  
Built in active PFC function, PF>0.95  
Short circuit, over load, over voltage, over temperature protections  
Forced air cooling by built-in DC fan  
High power density 5.18w/in<sup>3</sup>  
43mm thickness low profile  
Built-in remote ON-OFF control  
Built-in remote sense function  
Active AC surge current limiting



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
SP-480-3-3	3.3V	85A	280.5W	80mV	73%
SP-480-5	5V	85A	425W	80mV	79%
SP-480-12	12V	40A	480W	120mV	85%
SP-480-15	15V	32A	480W	150mV	85%
SP-480-24	24V	20A	480W	150mV	87%
SP-480-48	48V	10A	480W	240mV	89%

## Description

The SP-480 series is a 480W single output AC-DC enclosed power supply with built-in active PFC function. Protections including short circuit, over load, over voltage and over temperature. Forced air cooling built-in DC fan allows an operating temperature of -20~+60°C. A low profile of 43mm and high power density of 5.18W/in<sup>3</sup> means this power supply is suitable for applications where a compact design is required.

## Applications

Industrial control systems  
Mechanical industry  
Electrical industry  
Instrumentation  
LED displays



## Features

Universal 85-264VAC input  
Built-in active PFC function, PF>0.95  
1U low profile 40.5mm  
High efficiency up to 90.5%  
Built-in remote on/off control  
Built-in remote sense function  
Short circuit, over load, over voltage, over temperature protections  
LED indicator for power on



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
RSP-500-3-3	3.3V	90A	297W	120mV	81%
RSP-500-4	4V	90A	360W	120mV	83%
RSP-500-5	5V	90A	450W	150mV	83%
RSP-500-12	12V	41.7A	500.4W	150mV	89%
RSP-500-15	15V	33.4A	501W	150mV	88%
RSP-500-24	24V	21A	504W	150mV	89%
RSP-500-27	27V	18.6A	502.2W	150mV	89.5%
RSP-500-48	48V	10.5A	504W	150mV	90.5%

## Description

RSP-500 Series are a range of low profile enclosed power supplies with PFC function and output voltage options ranging from 3.3Vdc to 48Vdc. This Mean Well range of enclosed power supplies are also equipped with up to 90.5% high efficiency, remote sense, remote ON/OFF control, and fan speed control, as well as protections for short circuit, overload, over voltage and over temperature. The RSP-500 Series complies with UL, CUL, TUV, CB, and CE regulations.



## Applications

General electronic applications  
Factory automation  
Telecommunications  
Networking  
Test & measurement  
Audio systems  
Large sized LCD TV's



## Features

Universal AC input  
Built in active PFC circuit compliance to EN61000-3-2  
Short circuit, over load, over voltage, over temperature protections  
Free air convection for 400W and 500W with 23.5CFM forced air  
High power density 6.2w/in<sup>3</sup>  
U-bracket low profile: 41mm  
Built-in remote ON-OFF control  
Built-in remote sense function  
AC input active surge current limiting  
Built in DC OK active signal



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
USP-500-5	5V	80A	400W	80mV	85%
USP-500-12	12V	42A	504W	100mV	90%
USP-500-15	15V	34A	502.5W	100mV	90%
USP-500-24	24V	21A	504W	150mV	89%
USP-500-48	48V	10.5A	504W	150mV	90%

## Description

Featuring advanced technology for high efficiency, USP-500 possesses up to 90% of efficiency, even for the 12V model. With the capability of supplying 400W using free air convection alone, it is perfectly suitable for fanless usage; by applying 23.5CFM of system forced air, an even higher output of 500W can be obtained. With 6.2W/ in<sup>3</sup> of high power density, USP-500 series is a compact 90~264V switcher that is ideal for 1U (1.75-inch) installations.

## Applications

General electronics  
Factory automation  
Moving signs  
Test and measurement equipment



## Features

Universal AC input  
Built-in active PFC function, PF>0.95  
High efficiency up to 89% (typ.)  
Short circuit, over load, over voltage, over temperature protections  
Withstand 300VAC surge input for 5 seconds  
Built-in constant current limiting circuit  
Built-in cooling Fan ON-OFF control (load)  
Built-in remote sense function  
All using 105°C long life electrolytic capacitors



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
HRP-600-3-3	3.3V	120A	396W	80mV	79%
HRP-600-5	5V	120A	600W	80mV	82%
HRP-600-7-5	8V	80A	600W	80mV	87%
HRP-600-12	12V	53A	636W	120mV	88%
HRP-600-15	15V	43A	645W	150mV	88%
HRP-600-24	24V	27A	648W	150mV	88%
HRP-600-36	36V	18A	630W	200mV	89%
HRP-600-48	48V	13A	624W	240mV	89%

## Description

HRP-600 Series are 600W AC/DC enclosed type power supplies with PFC function that fulfil the requirement of EN61000-3-2 for harmonic current with high operating efficiency and low no load power consumption. Standard functions of HRP-600 include 300VAC input surge immunity for 5 seconds, remote sense, DC OK signal, LED indicator, heavy industry level of EMS immunity(EN61000-6-2), and protection for short-circuit, overload (constant current limiting), over voltage, and over temperature.



### Features

- Universal Ac input/Full range
- Built-in PFC Function
- Protections: Short Circuit/Overload/Over Voltage/ Over temperature
- Forced air cooling by built-in DC fan
- Output Voltage programmable from 20~110% by 1~5.5VDC external control signal
- With DC OK signal output
- Built-in remote ON-OFF control
- Fixed switching frequency at PFC:88kHz PWM:100KHz



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
SPV-600-12	12V	50A	600W	240mV	84%
SPV-600-24	24V	25A	600W	240mV	86%
SPV-600-48	48V	12.5A	600W	300mV	87%

## Applications

General electronics  
Factory automation  
Moving signs  
Test and measurement equipment



## Features

Universal AC input  
Built-in active PFC function, PF>0.95  
High efficiency up to 89% (typ.)  
Short circuit, over load, over voltage, over temperature protections  
Withstand 300VAC surge input for 5 seconds  
Built-in cooling Fan ON-OFF control (load)  
DC OK signal output  
Stand by 5V@0.3A  
Built in remote ON-OFF control  
Built-in remote sense function  
No load power consumption <0.75W



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
HRPG-600-3-3	3.3V	120A	396W	80mV	79%
HRPG-600-5	5V	120A	600W	80mV	82%
HRPG-600-7-5	8V	80A	600W	80mV	86%
HRPG-600-12	12V	53A	636W	120mV	88%
HRPG-600-15	15V	43A	645W	150mV	88%
HRPG-600-24	24V	27A	648W	150mV	88%
HRPG-600-36	36V	18A	630W	200mV	89%
HRPG-600-48	48V	13A	624W	240mV	89%

## Description

HRPG-600 Series are 600W AC/DC enclosed type power supplies with PFC function that fulfil the requirement of EN61000-3-2 for harmonic current with high operating efficiency and low no load power consumption. Other standard functions of HRPG-600 include 300VAC input surge immunity for 5 seconds, remote sense, DC OK signal, LED indicator, heavy industry level of EMS immunity(EN61000-6-2), and protection for short-circuit, overload (constant current limiting), over voltage, and over temperature. HRPG-600 Series are different to the HPR-600's as they have additional remote ON/OFF control and 5V/0.3A standby output.

## Applications

Humid and dusty industrial environments  
Outdoor telecommunication equipment  
No fan environment  
Signboards or billboards



## Features

Universal AC input / Full range (up to 264VAC)  
Built-in active PFC function  
No load power consumption <0.5W at remote OFF  
High efficiency up to 96%  
Aluminium case and fully potted with heat-conducted silicone  
-40 to +70C wide operating range  
Withstand 5G vibration test  
Short circuit, Over current, Over voltage, Over temperature protections  
Fanless design, cooling by free air convection  
Output current and voltage adjustable through internal potentiometer  
LED indicator for power on  
5 years warranty on approved installations



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
HEP-600-12	12V	40A	480W	150mV	93%
HEP-600-15	15V	36A	540W	150mV	94%
HEP-600-20	20V	28A	560W	150mV	95%
HEP-600-24	24V	25A	600W	150mV	95%
HEP-600-30	30V	20A	600W	200mV	95.5%
HEP-600-36	36V	16.7A	601.2W	250mV	95.5%
HEP-600-42	42V	14.3A	600.6W	250mV	96%
HEP-600-48	48V	12.5A	600W	250mV	96%
HEP-600-54	54V	11.2A	604.8W	350mV	96%

## Description

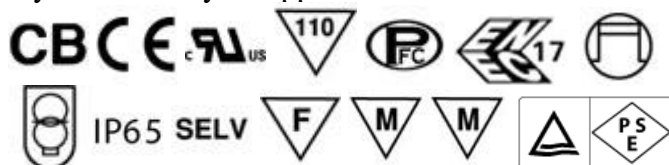
HEP-600 series is a high-efficiency and waterproof AC-to-DC industrial power supply with power up to 600Watts, fully potted by silicone and enclosed within an aluminium case. HEP-600 works outstandingly with electronics under harsh environments such as fan-less, high-vibration, dusty, humid, and oily conditions. Its remarkable features include supreme efficiency up to 96%, low no-load power consumption (<0.5Watt) at remote OFF, and wide working temperature ranges between -40 and +70C.

## Applications

LED street lighting  
LED High bay lighting  
Parking space lighting  
LED searchlight  
LED fishing lamp

## Features

Universal AC input / Full range (up to 305VAC)  
Built-in active PFC function  
No load power consumption <0.5W at remote OFF  
High efficiency up to 96%  
-40°C ~ +70°C wide operating range  
Short circuit, over current, over voltage & over temperature protections  
Fanless design, cooling by free air convection  
IP65 design for indoor or outdoor installations  
Withstand 5G vibration test  
LED indicator for power on  
Suitable for dry, damp or wet location  
5 years warranty on approved installs



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
HLG-600H-12A	12V	40A	480W	150mV	92%
HLG-600H-15A	15V	36A	540W	150mV	93.5%
HLG-600H-20A	20V	28A	560W	150mV	94.5%
HLG-600H-24A	24V	25A	600W	150mV	95%
HLG-600H-30A	30V	20A	600W	200mV	95%
HLG-600H-36A	36V	16.7A	601.2W	250mV	95.5%
HLG-600H-42A	42V	14.3A	600.6W	250mV	96%
HLG-600H-48A	48V	12.5A	600W	250mV	96%
HLG-600H-54A	54V	11.2A	604.8W	350mV	96%

## Description

HLG-600H-A series is a high performance dustproof and waterproof, to IP65 ingress protection ratings, AC-to-DC LED power supply. Capable of power up to 600Watts and delivering efficiency up to 96% the range tops the LED power supply field. Other features include the wide working temperature range between -40 and +70, fan-less design, adjustable output voltage and current, surge susceptibility up to 4KV (EN61000-4-5), low no-load power consumption (<0.5Watt) at remote OFF and workable at 277VAC input. These attributes, along with the fully-potted silicone and aluminium case, all make HLG-600H-A fit for indoor/outdoor LED lighting applications requiring remarkable reliability



## Applications

LED street lighting  
LED High bay lighting  
Parking space lighting  
LED searchlight  
LED fishing lamp

## Features

Universal AC input / Full range (up to 305VAC)  
Built-in active PFC function  
No load power consumption <0.5W at remote OF  
High efficiency up to 96%  
-40°C ~ +70°C wide operating range  
Short circuit, over current, over voltage & over temperature protections  
Fanless design, cooling by free air convection  
IP67 design for indoor or outdoor installations  
Withstand 5G vibration test  
Three in one dimming function - 0~10Vdc or PWM signal or resistive  
Suitable for dry, damp or wet location  
5 years warranty on approved installs



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
HLG-600H-12B	12V	40A	480W	150mV	92%
HLG-600H-15B	15V	36A	540W	150mV	93.5%
HLG-600H-20B	20V	28A	560W	150mV	94.5%
HLG-600H-24B	24V	25A	600W	150mV	95%
HLG-600H-30B	30V	20A	600W	200mV	95%
HLG-600H-36B	36V	16.7A	601.2W	250mV	95.5%
HLG-600H-42B	42V	14.3A	600.6W	250mV	96%
HLG-600H-48B	48V	12.5A	600W	250mV	96%
HLG-600H-54B	54V	11.2A	604.8W	350mV	96%

## Description

HLG-600H-B series is a high performance dustproof and waterproof AC-to-DC LED power supply with power up to 600Watts and three in one dimming function. The fully-potted silicone and aluminium case facilitate heat dissipation allowing the fanless design and helping to deliver efficiency up to 96%, topping that of others in the LED power supply field. Other features include wide working temperature range between -40 and +70, adjustable output voltage and current, EN61000-4-5 compliant surge susceptibility up to 4KV, <0.5Watt low no-load power consumption at remote OFF and the ability to work at 277VAC input. These attributes all make HLG-600H-B fit for indoor/outdoor LED lighting applications requiring remarkable reliability and dimming capabilities.

Medical equipment  
 Chemical detection equipment  
 Biological detection equipment  
 Analysis facilities



**Features**

- Universal AC input 85-264VAC
- No load power consumption <0.8W
- Low leakage current <300µA @ 264VAC
- Built-in active PFC function, PF>0.94
- High efficiency up to 89%
- Built-in constant current limiting circuit
- Built-in remote sense function
- DC OK signal
- Built-in remote ON/OFF control & 5V/0.3A standby output
- Parallel function for MSP-600-24/36/48
- Withstand 300VAC surge for 5 seconds



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
MSP-600-3-3	3.3V	120A	396W	100mV	78.5%
MSP-600-5	5V	120A	600W	100mV	82%
MSP-600-7-5	7.5V	80A	600W	100mV	86%
MSP-600-12	12V	53A	636W	120mV	88%
MSP-600-15	15V	43A	645W	150mV	88%
MSP-600-24	24V	27A	648W	150mV	88%
MSP-600-36	36V	17.5A	630W	200mV	89%
MSP-600-48	48V	13A	624W	240mV	89%

**Description**

MSP-600 Series is a range of 600W medical safety regulation compliant (MOOP level) enclosed power supplies with low leakage current. Featuring 85-264VAC input the range is available in output voltages of 3.3V to 48V and possesses up to 89% high efficiency. Standard functions of MSP-600 Series include protections for short circuit, overload, over voltage, and over temperature, 300VAC input surge immunity for 5 seconds, remote ON/OFF control, remote sense, fan ON/OFF control, and DC OK signal output. To meet with requirements of higher wattage applications the 24V, 36V & 48V models are equipped with a parallel function where up to 4 units can be operated in parallel.



### Features

- Universal AC input / Full range
- Built in active PFC function
- Protections: Short circuit/Over load/Over voltage/Over temperature
- Forced air cooling by built-in DC fan
- With DC OK Signal output
- Current sharing up to 2400W(3+1)
- Built-in remote ON-OFF control
- Built-in remote sense function
- Fixed switching frequency at PFC:88KHz PWM:100KHz



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
PSP-600-5	5V	80A	400W	180mV	79%
PSP-600-12	12V	50A	600W	240mV	84%
PSP-600-13-5	14V	44.5A	600W	240mV	85%
PSP-600-15	15V	40A	600W	240mV	85%
PSP-600-24	24V	25A	600W	240mV	86%
PSP-600-27	27V	22.2A	600W	240mV	86%
PSP-600-48	48V	12.5A	600W	300mV	87%

### Description

The PSP-600 Series is a 600W parallel output enclosed power supply with PFC function. Protections including short circuit, over load, over voltage and over temperature. Forced air cooling by built-in DC fan allows an operating temperature of -20~+60°C. With a fixed switching frequency at PFC: 88KHz, PWM: 100KHz enabling designs to avoid interference with system clock frequencies.



### Features

- Universal input voltage
- Uses ZVS technology to reduce power dissipation and improve efficiency
- Large range of output configurations available
- Remote control on each module
- Remote sense on MS-75, 150 & 300 modules
- Built in active PFC, PF>0.95
- Built in parallel function on MS-300
- Fan alarm function
- Forced air cooling



### MS-75 Series - 75W Single Output 1 Slot Modular Power Supplies



### Features

- For installation in MP450, MP650 & MP1K0 Modules

Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)
MS-75L	3.3V	15A	75W	80mV
MS-75M	5V	15A	75W	80mV
MS-75N	12V	0.63A	75W	150mV
MS-75O	15V	5A	75W	150mV
MS-75P	24V	3.2A	75W	150mV
MS-75Q	48V	1.6A	75W	250mV

### Features

For installation in MP450, MP650 & MP1K0 Modules



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)
MS-150A	2V	25A	150W	50mV
MS-150B	3.3V	25A	150W	80mV
MS-150C	5V	25A	150W	80mV
MS-150D	7.5V	18A	150W	100mV
MS-150E	12V	13A	150W	150mV
MS-150F	15V	10A	150W	150mV
MS-150G	18V	8.5A	150W	150mV
MS-150H	24V	6.5A	150W	150mV
MS-150I	27V	5.8A	150W	150mV
MS-150J	33V	4.7A	150W	250mV
MS-150K	48V	3.2A	150W	250mV

### MS-300 Series - 300W Single Output parallel able 2 Slot Modular Power Supplies

### Features

For installation in MP450, MP650 & MP1K0 Modules



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)
MS-3002A	2V	50A	300W	80mV
MS-3002B	3.3V	50A	300W	80mV
MS-3002C	5V	50A	300W	80mV
MS-3002D	7.5V	40A	300W	100mV
MS-3002E	12V	25A	300W	150mV
MS-3002F	15V	20A	300W	150mV
MS-3002G	18V	16.7A	300W	150mV
MS-3002H	24V	12.5A	300W	150mV
MS-3002I	27V	11.2A	300W	200mV
MS-3002J	33V	9.1A	300W	250mV
MS-3002K	48V	6.3A	300W	300mV



**Features**

For installation in MP450, MP650 &amp; MP1K0 Modules

Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)
MD-100R	5V	10A	90W	100mV
	5V	8A	90W	100mV
MD-100S	5V	10A	100.4W	100mV
	12V	5.8A	100.4W	150mV
MD-100T	5V	15A	101W	100mV
	10V	4.7A	101W	150mV
MD-100U	24V	3A	100W	200mV
	5V	10A	100W	100mV
MD-100V	24V	3A	100.8W	240mV
	12V	4.7A	100.8W	120mV
MD-100W	12V	5A	100.8W	120mV
	12V	5.8A	100.8W	120mV
MD-100X	15V	4.7A	100.5W	150mV
	15V	4.7A	100.5W	150mV

**Description**

Switching power supplies with modular design that consists of 2 stages; Front end PFC and output modules. Using zero voltage switching technology to realize the power factor correction, the line input is rectified into high DC voltage 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 to 53V. There are currently 75W, 150W, 300W single output modules and 100W dual output modules to fulfil all kinds of applications up to 14 isolated outputs. There are millions of combinations available for the modular series. You can configure the DC outputs needed to get the fastest solution for your power requirements with safety and EMC certificates. No more NRE/safety application charges and long periods of waiting for certificates to come through! This is a revolutionary standard power solution that fulfils your custom made request!



## RSP-750 Series - 750W Single Output 1U low profile Enclosed Power Supply

### Applications

General industrial control system  
IC testing equipment  
Instrumentation  
Telecom  
Data storage  
Laser-carving machine  
Charging system



### Features

Universal AC input/Full range  
AC input active surge current limiting  
High efficiency up to 92%  
Built-in 12V/0.1A auxiliary power  
Built-in active PFC function, PF>0.97  
Protections: Short circuit/Overload/Over voltage/Over temperature/Fan alarm  
Output voltage can be trimmed between 40~110% of the rated output voltage  
Output OLP can be trimmed between 40~110% of the rated output current  
Forced air cooling by built-in DC fan  
High power density 9.5W/inch<sup>3</sup>  
1U low profile 41mm  
DC OK signal  
Built-in remote ON-OFF control  
Built-in remote sense function



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
RSP-750-5	5V	100A	500W	150mV	82%
RSP-750-12	12V	62.5A	750W	150mV	87%
RSP-750-15	15V	50A	750W	150mV	89%
RSP-750-24	24V	31.3A	751.2W	150mV	91%
RSP-750-27	27V	27.8A	750.6W	150mV	91%
RSP-750-48	48V	15.7A	753.6W	150mV	92%

### Description

The RSP-750 series is a 1U low profile enclosed type power supply, featuring 9.44W/inch<sup>3</sup> of high power density. Suitable for industrial equipments with limitations on space due to its high operating temperature of -30~+50°C with cooling by the built-in DC fan and its small size. Standard functions include remote sense, remote ON/OFF control, 12V/0.1A auxiliary output and DC OK alarm signal output (TTL signal).

## SP-750 Series - 750W AC-DC Active PFC Single Output Power Supply

### Applications

Industrial automation  
Moving sign  
Electronic equipment  
Instrumentation



### Features

Universal AC input/Full range  
AC input active surge current limiting  
Built-in active PFC function, PF>0.95  
Protections: Short circuit, overload, over voltage, over temperature  
Forced air cooling by built-in DC ball bearing fan  
High power density 5.48/inch  
Built-in constant current limiting circuit  
With power good and fail signal output  
Built-in remote ON-OFF control  
Built-in remote sense function



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
SP-750-5	5V	120A	600W	120mV	81%
SP-750-12	12V	62.5A	750W	120mV	86%
SP-750-15	15V	50A	750W	120mV	87%
SP-750-24	24V	31.3A	751.2W	120mV	89%
SP-750-27	27V	28A	751W	120mV	89%
SP-750-48	48V	16A	754W	120mV	90%

### Description

The SP-750 series is a 750W AC-DC single output enclosed power supply with active PFC function. Protections including short circuit, overload, over voltage and over temperature. Forced air cooling by built-in Dc ball bearing fan.

## SPS-750P - 750W Single Output Enclosed Power Supply with PFC



### Features

- Universal AC input with active power factor correction, PF>0.95
- High reliability and high efficiency up to 90%
- Constant current design suits for inductive load and capacitive load
- Inrush current limit soft start function
- Over voltage, Over Load and Short Circuit, Over Temperature Protection
- Output voltage  $\pm 10\%$  adjustment
- Output voltage remote sense & remote control ON/OFF
- Power good signal output
- Current sharing function, 2+1 up to 2250W
- Built-in 12V/0.1A auxiliary output
- UL, cUL, TUV, CB, CE approved



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
SPS-750P-05	5V	120A	600W	120mV	80%
SPS-750P-12	12V	62.5A	750W	120mV	88%
SPS-750P-15	15V	50A	750W	120mV	88%
SPS-750P-24	24V	31.3A	751W	200mV	88%
SPS-750P-30	30V	25A	750W	200mV	89%
SPS-750P-36	36V	21A	756W	220mV	89%
SPS-750P-48	48V	16A	758W	240mV	90%

## MP1K0 Series - 1000W Modular Power Power Supply



### Features

- Universal input voltage
- Uses ZVS technology to reduce power dissipation and improve efficiency
- Large range of output configurations available
- Remote control on each module
- Remote sense on MS-75, 150 & 300 modules
- Built in active PFC, PF>0.95
- Built in parallel function on MS-300
- Fan alarm function
- Forced air cooling



## MS-75 Series - 75W Single Output 1 Slot Modular Power Supplies



### Features

- For installation in MP450, MP650 & MP1K0 Modules

Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)
MS-75L	3.3V	15A	75W	80mV
MS-75M	5V	15A	75W	80mV
MS-75N	12V	0.63A	75W	150mV
MS-75O	15V	5A	75W	150mV
MS-75P	24V	3.2A	75W	150mV
MS-75Q	48V	1.6A	75W	250mV



### Features

For installation in MP450, MP650 & MP1K0 Modules

Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)
MS-150A	2V	25A	150W	50mV
MS-150B	3.3V	25A	150W	80mV
MS-150C	5V	25A	150W	80mV
MS-150D	7.5V	18A	150W	100mV
MS-150E	12V	13A	150W	150mV
MS-150F	15V	10A	150W	150mV
MS-150G	18V	8.5A	150W	150mV
MS-150H	24V	6.5A	150W	150mV
MS-150I	27V	5.8A	150W	150mV
MS-150J	33V	4.7A	150W	250mV
MS-150K	48V	3.2A	150W	250mV

### MS-300 Series - 300W Single Output parallel able 2 Slot Modular Power Supplies



### Features

For installation in MP450, MP650 & MP1K0 Modules

Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)
MS-3002A	2V	50A	300W	80mV
MS-3002B	3.3V	50A	300W	80mV
MS-3002C	5V	50A	300W	80mV
MS-3002D	7.5V	40A	300W	100mV
MS-3002E	12V	25A	300W	150mV
MS-3002F	15V	20A	300W	150mV
MS-3002G	18V	16.7A	300W	150mV
MS-3002H	24V	12.5A	300W	150mV
MS-3002I	27V	11.2A	300W	200mV
MS-3002J	33V	9.1A	300W	250mV
MS-3002K	48V	6.3A	300W	300mV



## Features

For installation in MP450, MP650 & MP1K0 Modules

Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)
MD-100R	5V	10A	90W	100mV
	5V	8A	90W	100mV
MD-100S	5V	10A	100.4W	100mV
	12V	5.8A	100.4W	150mV
MD-100T	5V	15A	101W	100mV
	10V	4.7A	101W	150mV
MD-100U	24V	3A	100W	200mV
	5V	10A	100W	100mV
MD-100V	24V	3A	100.8W	240mV
	12V	4.7A	100.8W	120mV
MD-100W	12V	5A	100.8W	120mV
	12V	5.8A	100.8W	120mV
MD-100X	15V	4.7A	100.5W	150mV
	15V	4.7A	100.5W	150m

## Description

Switching power supplies with modular design that consists of 2 stages; Front end PFC and output modules. Using zero voltage switching technology to realize the power factor correction, the line input is rectified into high DC voltage 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 to 53V. There are currently 75W, 150W, 300W single output modules and 100W dual output modules to fulfil all kinds of applications up to 14 isolated outputs. There are millions of combinations available for the modular series. You can configure the DC outputs needed to get the fastest solution for your power requirements with safety and EMC certificates. No more NRE/safety application charges and long periods of waiting for certificates to come through! This is a revolutionary standard power solution that fulfils your custom made request!



## RSP-1000 Series - 1000W PFC Parallel Function Enclosed Power Supply

### Applications

Front end power systems  
Factory Automation  
Instrumentation  
Moving Signs  
Telecommunications  
Data Communications  
Charging Lockers



### Features

Universal AC input  
1U low profile  
High power density 10.67/in<sup>3</sup>  
Built in Active PFC circuit  
Short circuit, over load, over voltage & over temperature protections  
Built in ON/OFF control and remote sense  
Trimable output voltages  
DC OK signal output  
Built in active current sharing  
High efficiency up to 90%  
Built in 5V/0.5A auxiliary output



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
RSP-1000-12	12V	60A	720W	150mV	84%
RSP-1000-15	15V	50A	750W	150mV	86%
RSP-1000-24	24V	40A	960W	150mV	89%
RSP-1000-27	27V	37A	999W	150mV	89%
RSP-1000-48	48V	21A	1008W	150mV	90%

### Description

With power factor correction and parallel function this series targets 1U low profile and high wattage applications. Featuring 10.67W/in<sup>3</sup> extremely high power density RSP-1000 series can provide rated output wattage even at 100VAC input because of its high efficiency design. With built in trimming function the output voltage can be adjusted between 40% and 110% rated value by adding an external voltage source or resistors. Other standard features include remote sense, remote ON/OFF control, 5V/0.5A auxiliary output and DC OK signal. Using constant current limiting as the overload protection makes it a suitable unit for capacitive/inductive loads and if you need more power the built in active current sharing function allows up to 3 units to be connected in parallel.

## SPS-1000P Series - 1000W Single Output AC/DC PFC Enclosed Power Supply

### Applications

Automatic control systems  
General electronic systems



### Features

Universal AC input with active power factor correction, P.F.>0.95  
Inrush current limit soft start function  
Over voltage, over load, short circuit protection  
Over temperature protection  
Output voltage  $\hat{A}\pm 10\%$  adjustment  
Output voltage remote sense & remote control ON/OFF  
Power good signal output  
Current sharing function, 3+1 up to 4KW  
Forced air cooling by built in DC fan  
Built in 5V/0.5A auxiliary output  
1U low profile  
UL, cUL, TUV, CB, CE standard



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
SPS-1000P-12	12V	63A	756W	150mV	83%
SPS-1000P-24	24V	40A	960W	150mV	87%
SPS-1000P-36	36V	28A	1000W	240mV	87%
SPS-1000P-48	48V	21A	1008W	240mV	88%

### Description

SPS-1000P Series are 1000W single output power supplies with high efficiency and wide operating temperatures from -20C to +70C. Standard features include remote control, remote sense, power good signal and over voltage, over load, short circuit and over temperature protections. SPS-1000P also has current sharing function for parallel use.

## SPV-1500 Series - 1500W Single Output Enclosed Power Supply

### Applications

LCD panel burn-in systems  
IC testing equipment  
Telecommunications  
Data communications  
Laser-carving machines  
Factory automation  
Battery charging



### Features

Universal AC input/Full range  
ZVS new technology  
AC input active surge current limiting  
Built-in active PFC function, PF>0.95  
Short circuit, over load, over voltage, over temperature protections  
Forced air cooling by built-in DC ball bearing fan  
High power density 8.3W/inch  
Current sharing up to 4500W(2+1)  
Alarm signal output  
Built-in 12V/0.1A auxiliary output for remote control  
Built-in remote ON-OFF control  
Built-in remote sense function  
UL, cUL, TUV, CB, CE Approvals



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
SPV-1500-12	12V	125A	1500W	150mV	86.5%
SPV-1500-24	24V	63A	1512W	150mV	90%
SPV-1500-48	48V	32A	1536W	200mV	90%

### Description

1500W single output ac/dc enclosed power supplies with parallel function and programmable output voltage function. SPV-1500 Series are a high reliability range of enclosed power supplies with high efficiency up to 90% and high power density 8.3W/in<sup>3</sup>. Built-in parallel function (2+1) enabling total wattages up to 4500W, remote ON/OFF control and remote sense function, Alarm signal output & Built-in 12V/0.1A auxiliary output are other notable features of SPV-1500.

## RSP-1500 Series - 1500W Parallel Output PFC Function Power Supply

### Applications

Front end power systems  
Factory automation  
Instrumentation  
Moving signs  
Telecommunications  
Data communications



### Features

Universal AC input  
ZVS new technology  
AC input active surge current limiting  
High efficiency up to 91%  
Built in active PFC function, PF>0.95  
Forced air cooling by built-in DC fan  
Output voltage can be trimmed between 70~100% of the rated output voltage  
High power density 8.3W/inch<sup>3</sup>  
Current sharing up to 6000W(3+1)  
Alarm signal output  
Built-in 12V/0.1A auxiliary output for remote control  
Built-in remote ON-OFF control  
Built-in remote sense function



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
RSP-1500-5	5V	240A	1200W	150mV	80%
RSP-1500-12	12V	125A	1500W	150mV	87%
RSP-1500-15	15V	100A	1500W	150mV	87%
RSP-1500-24	24V	63A	1512W	150mV	90%
RSP-1500-27	27V	56A	1512W	150mV	90%
RSP-1500-48	48V	32A	1536W	200mV	91%

### Description

With power factor correction and parallel function this series targets 1U low profile and high wattage applications. Featuring 8.3W/in<sup>3</sup> extremely high power density RSP-1500 series can provide rated output wattage even at 100VAC input because of its high efficiency design. With built in trimming function the output voltage can be adjusted between 70% and 100% rated value by adding an external voltage source or resistors. Other standard features include remote sense, remote ON/OFF control, 12V/0.1A auxiliary output and DC OK signal. Using constant current limiting as the overload protection makes it a suitable unit for capacitive/inductive loads and if you need more power the built in active current sharing function allows up to 3 units to be connected in parallel.

## RSP-2000 Series - 2000W Single Output Enclosed Power Supply



### Features

- Universal AC input/Full range
- Ac input active surge current limiting
- Built-in 5V/0.3A, 12V/0.8A auxiliary power
- Built-in active PFC function, PF>0.98
- Protections: Short circuit/Overload/Over voltage/Over temperature
- Output voltage can be trimmed between 20~110% of the rated output voltage
- Forced air cooling by built-in DC fan
- High power density 21.4W/inch<sup>3</sup>
- 1U low profile 41mm
- Active current sharing
- DC OK signal
- Built-in remote ON-OFF control
- Built-in remote sense function



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
RSP-2000-12	12V	100A	1200W	150mV	86%
RSP-2000-24	24V	80A	1920W	200mV	80.5%
RSP-2000-48	48V	42A	2016W	300mV	92%

### Description

Offering up to 2000W of regulated DC output voltages from 12~48V and parallel capability up to 6KW; the new range of universal input high power RSP-2000. With a high power density of 21.4W/inch<sup>3</sup> these small footprint modules lead the way in high power switching technology.

## RSP-2400 Series - 2400W AC/DC Enclosed Parallel Power Supply

### Applications

LCD panel burn-in systems  
IC testing equipment  
Instrumentation  
Telecommunications  
Data communications  
Laser-carving machines  
Factory automation  
Battery charging



### Features

AC input 180 ~ 264VAC  
AC input active surge current limiting  
High efficiency up to 91%  
Built-in active PFC function, PF>0.95  
Short circuit, over load, over voltage, over temperature, Fan Alarm protections  
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/inch  
Current sharing up to 2 units  
Alarm signal output (relay contact and TTL signal)  
Built-in 12V/0.1A auxiliary output for remote control  
Built-in remote ON-OFF control  
Built-in remote sense function



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
RSP-2400-12	12V	167A	2000.4W	150mV	87%
RSP-2400-24	24V	100A	2400W	150mV	90%
RSP-2400-48	48V	50A	2400W	200mV	92%

### Description

RSP-2400 is a 2400W enclosed switching power supply with power factor correction (PFC) function. Featuring 12.5W/in<sup>3</sup> of extreme high power density, full output power up to 50°C and output voltages that can be adjusted from 20% to 110% rated voltage by adding 1~5.5V of external control voltage, which provide users great flexibility for their system design. Other standard features include remote sense, remote ON/OFF control, 12V/0.1A auxiliary output, and alarm signal output (both relay and TTL signal), RSP-2400 series use constant current limiting plus delay shutdown as the overload protection which enable the unit to power capacitive/inductive load and still provide full protection for customers system.



## RSP-3000 Series - 3000W AC/DC Enclosed Parallel Power Supply

### Applications

Front-end power systems  
Factory automation  
Instrumentation  
Moving signs  
Telecom/datacom's  
Laser-carving machines  
IC testing equipment  
LCD panel burn-in systems  
Battery charging



### Features

180~264VAC input  
AC input active surge current limiting  
High efficiency up to 90%  
Built-in active PFC function, PF>0.95  
Short circuit, over load, over voltage, over temperature, Fan Alarm protections  
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/inch  
Current sharing up to 3 units  
Alarm signal output  
Built-in 12V/0.1A auxiliary output for remote control  
Built-in remote ON-OFF control  
Built-in remote sense function



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
RSP-3000-12	12V	200A	2400W	150mV	86%
RSP-3000-24	24V	125A	3000W	150mV	90%
RSP-3000-48	48V	62.5A	3000W	200mV	90.5%

### Description

RSP-3000 is a 3000W enclosed switching power supply with power factor correction (PFC) function. Featuring 15.6W/in<sup>3</sup> of extreme high power density, full output power up to 50°C and output voltages that can be adjusted from 20% to 110% rated voltage by adding 1~5.5V of external control voltage, which provide users great flexibility for their system design. Other standard features include remote sense, remote ON/OFF control, 12V/0.1A auxiliary output, and alarm signal output (both relay and TTL signal), RSP-3000 series use constant current limiting plus delay shutdown as the overload protection which enable the unit to power capacitive/inductive load and still provide full protection for customers system.

## RST-5000 Series - 5000W Enclosed Power Supplies with PFC and Parallel Function

### Applications

Fuel energy  
Automation  
Lasers  
Telecommunications  
Battery charging



### Features

3 Phase 3 wire  $\Delta$  AC 196 ~ 305V or 3 Phase 4 wire Y AC 340 ~ 530V wide range input  
High efficiency up to 91%  
Built-in active PFC function  
Short circuit, Overload, Over voltage, Over temperature, Fan fail protections  
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  
Output current can be adjusted between 20~100% of the rated output current  
Current sharing up to 3 units  
Alarm signal output (relay contact and open collector signal): AC fail, DC OK, fan fail, OTP  
Built-in 12V/0.1A auxiliary output for remote control  
Built-in remote ON-OFF control  
Built-in remote sense function  
5 years warranty



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
RST-5000-24	24V	200A	4800W	150mV	89%
RST-5000-48	48V	105A	5040W	200mV	91%

### Description

RST-5000 Series is a 5000W enclosed power supply with PFC and parallel function. The units can use either 196~305V or 340~550VAC three phase input and up to 3 units can be connected in parallel for current sharing. Other features include adjustable output voltage and current, forced air cooling, with fan speed control function and alarm signal outputs for AC fail, DC OK, fan fail and OTP.

**Applications**

- Industrial control equipment
- Automation equipment
- Laser engravers
- Telecommunication systems



**Features**

- 3 Phase 3 wire  $\Delta$  AC 196 ~ 305V or 3 Phase 4 wire Y AC 340 ~ 530V wide range input
- High efficiency up to 91%
- Built-in active PFC function
- Short circuit, Over load, Over voltage, Over temperature, Fan fail protections
- 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 by 1-6VDC external control signal
- Output current can be adjusted between 20~100% of the rated output current by 1-5VDC external control signal
- Current sharing up to 2 units
- Alarm signal output (relay contact and open collector signal): AC fail, DC OK, fan fail, OTP
- Built-in 12V/0.1A auxiliary output for remote control
- Built-in remote ON-OFF control
- Built-in remote sense function
- 5 years warranty



Model No	Voltage (Max)	Current (Amps)	Power (Watts)	R&N (mV)	Efficiency (%)
RST-10000-24	24V	400A	9600W	150mV	89%
RST-10000-36	36V	276A	9936W	200mV	90%
RST-10000-48	48V	210A	10080W	200mV	91%

**Description**

RST-10000 Series are 10000W single output AC/DC power supplies with wide range 3 phase AC input and output voltage options of 24VDC, 36VDC and 24VDC. RST-10000 have wide range, external control signal, voltage and current adjustment functions and two over load protection mechanisms in the form of continuous constant current limiting mode and constant current limiting with delay shutdown after 5 seconds mode; increasing the flexibility in its within high power system design.

RST-10000 Series have built-in active PFC function and working efficiency up to 91%; the built-in fan enables the series to supply full load output at ambient temperatures fewer than 50°C. The Parallel function is built in to allow 2 units to be connected and supply an even higher power output. Other functions include remote sense function, 12V/0.1A auxiliary power, alarm signal output for AC fail, DC OK, fan fail and over temperature protections.

# Avanti Power Repairs

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