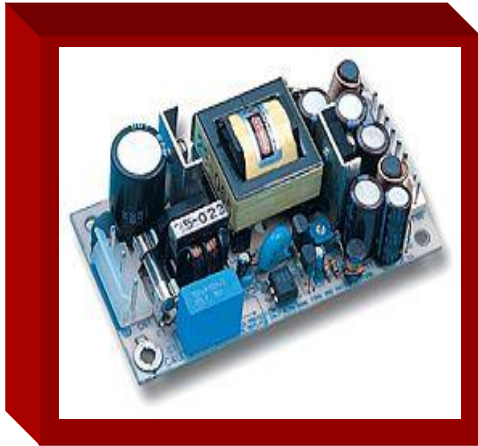


Avanti Power Repairs

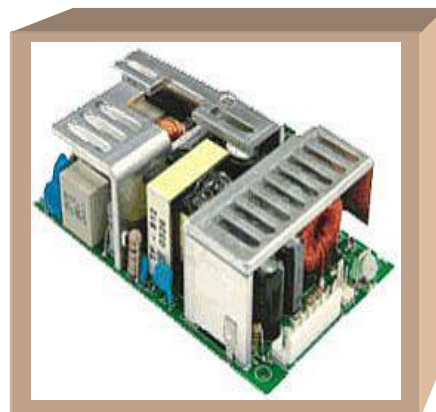
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INTRODUCTION

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 20,000 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”

Our open frame power supply products start at 5W, ranging up to 350W, are available in single and multi outputs, AC/DC and include ranges with battery backup channels and others suitable for medical applications.

The range includes many common form factors for open frame power supply units including

4" x 2" and 5" x 3"; available voltages start as low as 3.3V, through to 48V. The open frame power supply range includes pcb mount (on-board), green mode and medical types in a choice of single, dual, triple and quad outputs. Green mode models are suitable for ErP regulated end systems, Medical PCB models are medical safety approved (2xMOPP); all other models are industrial safety approved.

Open frame power supply products offer the most flexibility as they can be installed directly into customer systems, easily have cable looms fitted and can even be packaged into metal cases for those applications that benefit from an enclosed power structure.

Not what you were looking for? Just give us a call.

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PS-05 Series - 05W Single Output Switching Power Supply

Applications

Telecommunications
Automation
Control & test equipment
Security



Features

Universal AC input / Full range
Low leakage current <0.5mA
Short circuit, over load, over voltage & over temperature protections
Cooling by free air convection
100% full load burn-in test
Fixed switching frequency at 67KHz
High reliability



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
PS-05-5	5V	1A	5W	100mV	70%
PS-05-12	12V	0.45A	5.4W	120mV	75%
PS-05-15	15V	0.35A	5.25W	120mV	75%
PS-05-24	24V	0.22A	5.28W	200mV	76%
PS-05-48	48V	0.11A	5.28W	200mV	76%

Specification

Input Voltage	85 ~ 264Vac 120 ~ 370Vdc
Input Frequency	47 ~ 63Hz
Input Current	0.15A at 115Vac 0.07A at 230Vac
Inrush Current	30A at 230Vac, cold start
Leakage Current	<0.5mA at 240VAC
Setup, Rise Time	1000ms, 20ms
Hold Time	100ms at full load
Overload Protection	Above 105% rated output power. Hiccup mode, recovers automatically after fault condition is removed
Working Temperature	-10°C to +60°C (refer to output load de-rating curve)
Working Humidity	20 ~ 90% RH non-condensing
Storage Temperature	-20°C to +85°C
Storage Humidity	10~95% RH
Temperature Coefficient	±0.05%/°C (0~50°C)
Vibration	10 ~ 500Hz, 2G 10min./1 cycle, 60min. each along X,Y,Z axes
Withstand Voltage	I/P-O/P:3KVAC
Isolation Resistance	I/P-O/P:100M Ohms/500Vdc

Description

PS-05 is A new member to our open frame product line, designed to fill up the gap of lower wattage units. Complying with worldwide safety and performance standards they bear CB and CE marks. Featuring short circuit, over load, over voltage and over temperature protections these small gadgets securely provide the power source to your system within an economical budget.

NFM-05 Series - 5W Single Output Encapsulated Medical Power Supply

Applications

Non-patient contact medical
 General electronics
 IT equipment
 Industrial



Features

Universal AC input/full range
 Ultra low profile
 Isolation class II
 No load power consumption <0.5W
 Short circuit, OLP, OVP & OTP
 Compliance to UL60601-1 & TUV EN60601-1 medical standards
 Cooling by free air convection



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
NFM-05-3-3	3.3V	1.25A	4.125W	80mV	67%
NFM-05-5	5V	1A	5W	80mV	71%
NFM-05-12	12V	0.42A	5.04W	150mV	73%
NFM-05-15	15V	0.33A	5W	150mV	76%
NFM-05-24	24V	0.23A	6W	240mV	76%

Specification

Input Voltage	85 ~ 264VAC 120 ~ 370VDC
Input Frequency	47 ~ 440Hz
AC Current	0.12A/115VAC 0.08A/230VAC
Inrush Current	25A/115VAC 45A/230VAC typically, cold start
Setup, Rise Time	1000ms, 20ms/230VAC 1000ms,20ms/115VAC at full load
Hold up Time	100ms/230VAC 20ms/115VAC typically at full load
Overload Protection	Above 105% rated output power Hiccup mode, recovers automatically after fault condition is removed
Over Voltage Protection	Protection type shut off
Over Temperature Protection	Tj 145°C typically (U1) Detect on main control IC Shut down o/p voltage, recovers automatically after temperature goes down
Working Temperature	-20°C to +70°C (Refer to output load de-rating curve)
Working Humidity	20 ~ 90% RH non-condensing
Temperature Coefficient	±0.03%/°C (0 ~ 50°C)
Withstand Voltage	I/P-O/P:4KVAC
Isolation Resistance	I/P-O/P:100M Ohms/500VDC

Description

Featuring class II isolation levels they can be equipped into non-patient contact medical equipment and still comply with class B as per EMI regulations. With energy saving and the environment in mind the no load power consumption is lower than 0.5W so that it complies with the requirements for "green mode" power supplies. Standard functions include short circuit, over load and over voltage protections and over temperature protection is equipped on the whole NFM series. Suitable for use in general medical or for industrial usage that require low leakage current, general electronic applications and low profile IT equipment these on-board type PSU's can be applied on the main control PCB of the final systems.

NFM-10 Series - 10W Single Output On-board Type Medical PSU

Applications

Non-patient contact medical
 General electronics
 IT equipment
 Industrial



Features

Universal AC input/full range
 Ultra low profile
 Isolation class II
 No load power consumption <0.5W
 Fixed switching frequency at 67KHz
 Short circuit, OLP, OVP & OTP
 Compliance to UL60601-1 & TUV EN60601-1 medical standards
 Cooling by free air convection



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
NFM-10-3-3	3.3V	2.5A	8.25W	80mV	67%
NFM-10-5	5V	2A	10W	80mV	74%
NFM-10-12	12V	1A	10.2W	150mV	79%
NFM-10-15	15V	1A	10.05W	150mV	80%
NFM-10-24	24V	0.42A	10.08W	240mV	79%

Specification

Input Voltage	85 ~ 264VAC 120 ~ 370VDC
Input Frequency	47 ~ 440Hz
AC Current	0.25A/115VAC 0.15A/230VAC
Inrush Current	25A/115VAC 45A/230VAC typically, cold start
Setup, Rise Time	1000ms, 20ms/230VAC 1000ms, 20ms/115VAC at full load
Hold up Time	100ms/230VAC 20ms/115VAC typically at full load
Overload Protection	Above 105% rated output power Hiccup mode, recovers automatically after fault condition is removed
Over Voltage Protection	Protection type shut off
Over Temperature Protection	Tj 145°C typically (U1) Detect on main control IC Shut down o/p voltage, recovers automatically after temperature goes down
Working Temperature	-20°C to +70°C (Refer to output load de-rating curve)
Working Humidity	20 ~ 90% RH non-condensing
Withstand Voltage	I/P-O/P:4KVAC
Isolation Resistance	I/P-O/P:100M Ohms/500VDC

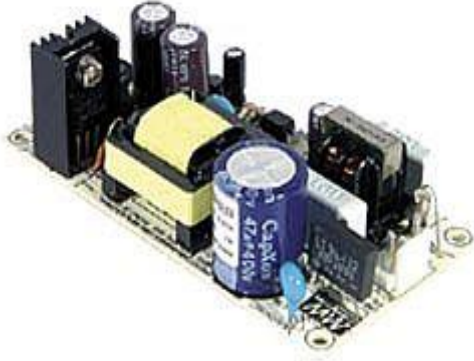
Description

Featuring class II isolation levels they can be equipped into non-patient contact medical equipment and still comply with class B as per EMI regulations. With energy saving and the environment in mind the no load power consumption is lower than 0.5W so that it complies with the requirements for "green mode" power supplies. Standard functions include short circuit; over load and over voltage protection and over temperature protection is equipped on the whole NFM series. Suitable for use in general medical or for industrial usage that require low leakage current, general electronic applications and low profile IT equipment this on-board type PSU's can be applied on the main control PCB of the final systems.

PS-15 Series - 15W Single Output Switching Power Supply

Applications

Telecommunications
Automation
Control & test equipment
Security



Features

Universal AC input / Full range
Low leakage current <0.5mA
Protections: Short circuit/Over load/Over voltage/Over temperature
Cooling by free air convection
100% full load burn-in test
Fixed switching frequency at 67KHz
High reliability



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
PS-15-5	5V	3A	14W	100mV	74%
PS-15-12	12V	1.25A	15W	120mV	77%
PS-15-15	15V	1A	15W	120mV	78%
PS-15-24	24V	1A	15W	150mV	79%
PS-15-48	48V	0.313A	15W	200mV	77%

Specification

Input Voltage	85 ~ 264VAC 120 ~ 370VDC
Input Frequency	47 ~ 63Hz
Input current	0.4A/115VAC 0.2A/230VAC
Input Frequency	47~440Hz
Inrush Current	40A/230VAC, cold start
Leakage Current	<0.5mA / 240VAC
Setup, Rise Time	5 ~ 24V: 1200ms, 30ms 48V: 1200ms, 75ms at full load
Hold Time	100ms at full load
Voltage Tolerance	±2.0%
Overload Protection	Above 105% rated output power
Protection type	Hiccup mode, recovers automatically after fault condition is removed
Over Temperature Protection	Tj 140°C typically (U1) Detect on main control IC
Protection type	Hiccup mode, recovers automatically after fault condition is removed
Working Temperature	-10~+60°C (refer to output load de-rating curve)
Working Humidity	20 ~ 90% RH non-condensing
Temperature Coefficient	±0.03%/°C (0~50°C)
Withstand Voltage	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC
Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC

Description

PS-15 is a new member to our open frame product line, designed to fill up the gap of lower wattage units. Complying with worldwide safety and performance standards they bear CB and CE marks. Featuring short circuit, over load, over voltage and over temperature protections these small gadgets securely provide the power source to your system within an economical budget.

NFM-15 Series - 15W Single Output On-board Type Medical PSU

Applications

Non-patient contact medical
 General electronics
 IT equipment
 Industrial



Features

Universal AC input/full range
 Ultra low profile
 Isolation class II
 No load power consumption <0.5W
 Short circuit, OLP, OVP & OTP
 Fixed switching frequency at 67KHz
 Compliance to UL60601-1 & TUV EN60601-1 medical standards
 Cooling by free air convection



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
NFM-15-3-3	3.3V	4A	12W	80mV	73%
NFM-15-5	5V	3A	15W	80mV	76%
NFM-15-12	12V	1.25A	15W	150mV	78%
NFM-15-15	15V	1A	15W	150mV	79%
NFM-15-24	24V	1A	15.12W	240mV	81%

Specification

Input Voltage	85 ~ 264VAC 120 ~ 370VDC
Input Frequency	47 ~ 440Hz
AC Current	0.35A/115VAC 0.2A/230VAC
Inrush Current	30A/115VAC 50A/230VAC typically, cold start
Setup, Rise Time	1000ms, 20ms/230VAC 1000ms, 20ms/115VAC at full load
Hold up Time	100ms/230VAC 20ms/115VAC typically at full load
Over Load Protection	Above 105% rated output power Hiccup mode, recovers automatically after fault condition is removed
Over Voltage Protection	Protection type shut off
Over Temperature Protection	Tj 145°C typically (U1) Detect on main control IC Shut down o/p voltage, recovers automatically after temperature goes down
Working Temperature	-20°C to +70°C (Refer to output load de-rating curve)
Working Humidity	20 ~ 90% RH non-condensing
Vibration	10 ~ 500Hz, 2G 10min./1cycle, Period for 60min.each along X, Y, Z axes
Withstand Voltage	I/P-O/P:4KVAC
Isolation Resistance	I/P-O/P:100M Ohms/500VDC

Description

Featuring class II isolation levels they can be equipped into non-patient contact medical equipment and still comply with class B as per EMI regulations. With energy saving and the environment in mind the no load power consumption is lower than 0.5W so that it complies with the requirements for "green mode" power supplies. Standard functions include short circuit, over load and over voltage protections and over temperature protection is equipped on the whole NFM series. Suitable for use in general medical or for industrial usage that require low leakage current, general electronic applications and low profile IT equipment this on-board type PSU's can be applied on the main control PCB of the final systems.

NFM-20 Series - 20W Single Output On-board Type Medical Power Supply

Applications

Non-patient contact medical
 General electronics
 IT equipment
 Industrial



Features

Universal AC input/full range
 Ultra low profile
 Low leakage current <200uA
 No load power consumption <0.75W
 Short circuit, OLP, OVP & OTP
 Fixed switching frequency at 90KHz
 UL60601-1, IEC60601-1 & TUV EN60601-1 medical safety approved
 Cooling by free air convection



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
NFM-20-3-3	3.3V	4.5A	15W	80mV	71%
NFM-20-5	5V	4.4A	22W	80mV	75%
NFM-20-12	12V	2A	22W	150mV	81%
NFM-20-15	15V	1.4A	21W	150mV	83%
NFM-20-24	24V	1A	22.08W	240mV	84%

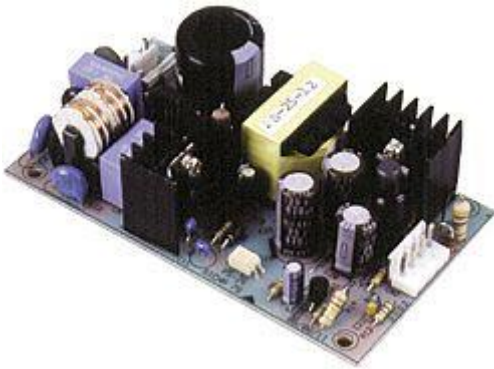
Specification

Input Voltage	85 ~ 264VAC 120 ~ 370VDC
Input Frequency	47 ~ 440Hz
AC Current	0.6A/115VAC 0.4A/230VAC
Inrush Current	30A/115VAC 65A/230VAC typically, cold start
Setup, Rise Time	500ms, 20ms/230VAC 500ms, 20ms/115VAC at full load
Holdup Time	50ms/230VAC 16ms/115VAC typically at full load
Overload Protection	Above 105% rated output power Hiccup mode, recovers automatically after fault condition is removed
Over Voltage Protection	Protection type Shut off
Over Temperature Protection	160°C typically (U1) Detect on main control IC Shut down o/p voltage, recovers automatically after temperature goes down
Working Humidity	20 ~ 90% RH non-condensing
Temperature Coefficient	±0.03%/°C (0 ~ 50°C)
Vibration	10 ~ 500Hz, 2G 10min./1cycle, Period for 60min.each along X, Y, Z axes
Withstand Voltage	I/P-O/P:4KVAC I/P-FG:1.5KVAC O/P-FG:1.5KVAC
Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC

Description

Featuring a low leakage current of 200uA at 264VAC this unit can be equipped into non-patient contact medical equipment and still comply with class B as per EMI regulations. With energy saving and the environment in mind the no load power consumption is lower than 0.75W so that it complies with the requirements for "green mode" power supplies. Standard functions include short circuit, over load and over voltage protections and over temperature protection is equipped on the whole NFM series. Suitable for use in general medical or for industrial usage that require low leakage current, general electronic applications and low profile IT equipment these on-board type PSU's can be applied on the main control PCB of the final systems.

PS-25 Series - 25W Single Output Open Frame Switching PSU



Features

- International AC input range
- Low leakage current <0.5mA
- Short circuit, over voltage, over load, over temperature protections
- High efficiency, High reliability
- Fixed switching frequency at 100KHz
- UL, cUL, TUV, CE approvals



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
PS-25-3-3	3.3V	5A	16.5W	80mV	66%
PS-25-5	5V	5A	25W	80mV	74%
PS-25-7-5	8V	3.3A	25W	80mV	76%
PS-25-12	12V	2.1A	25.2W	100mV	78%
PS-25-13-5	14V	2A	26W	100mV	78%
PS-25-15	15V	2A	26W	100mV	78%
PS-25-24	24V	1A	24W	240mV	79%
PS-25-27	27V	1A	24.3W	240mV	79%
PS-25-48	48V	0.5A	24W	350mV	79%

EPS-25 Series - 25W Single Output Open Frame Switching Power Supply

Applications

- Factory automation
- Electrical or mechanical equipment
- Applications which require low no load power consumption



Features

- Universal AC input/Full range
- High efficiency up to 90%
- Protections: Short circuit/Overload/Over voltage
- Cooling by free air convection
- 2" x 3" compact size
- LED indicator for power on
- No load power consumption <0.3W



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
EPS-25-3-3	3.3V	5A	16.5W	50mV	79%
EPS-25-5	5V	5A	25W	60mV	81%
EPS-25-7-5	7.5V	3.4A	25.5W	80mV	83%
EPS-25-12	12V	2.1A	25.2W	80mV	86%
EPS-25-15	15V	1.7A	25.5W	100mV	87%
EPS-25-24	24V	1.05A	25.2W	180mV	88%
EPS-25-27	27V	0.95A	25.65W	180mV	89%
EPS-25-36	36V	0.7A	25.2W	200mV	89%
EPS-25-48	48V	0.53A	25.44W	240mV	90%

Description

The EPS-25 series is a 25W miniature 3" x 2" open frame power supply, with up to date high efficiency circuit design the series possesses up to 90% of high efficiency. With protections including short circuit, overload and over voltage and standard features including no-load power consumption, cooling by free air convection and LED indicator for power on.

PD-25 Series - 25W Dual Output Open Frame Power Supply



Features

- International AC input range
- Low leakage current <0.5mA
- Short circuit, over voltage, overload & over temperature protection
- 100% full burn-in test
- Fixed switching frequency at 100KHZ
- Cooling by free air convection



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
PD-25A	5V	2.1A	25W	50mV	71%
	12V	1.2A		150mV	
PD-25B	5V	1.2A	25.2W	50mV	77%
	24V	1A		200mV	
PD-2505	5V	2.5A	25W	50mV	73%
	-5V	2.5A		50mV	
PD-2512	12V	1A	24W	50mV	74%
	-12V	1A		50mV	
PD-2515	15V	1A	24W	50mV	75%
	-15V	1A		50mV	

Description

PD-25 Series is a range of Dual output open frame switching power supplies designed with short circuit, over load, over voltage and over temperature protections. PD-25 are a highly reliable range of open frame power supplies with low leakage current and free air convection cooling.

PD-2503 - 25W Dual Output Open Frame Power Supply



Features

Universal AC input range

Low leakage current <0.5mA

Short circuit, over voltage, overload & over temperature protection

100% full burn-in test

Fixed switching frequency at 100KHZ

Cooling by free air convection



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
PD-2503	5V	3A	25W	50mV	72%
	3.3V	3A		50mV	

Description

PD-2503 is a dual output open frame switching power supplies designed with short circuit, over load, over voltage and over temperature protections. PD-2503 offers +5V & +3.3V outputs and is a highly reliable open frame power supply with low leakage current and free air convection cooling.

SPP-AS20 - 25.6W Triple Output AC-DC Open Frame PSU**Features**

Low ripple noise
 Over voltage, short circuit protections
 100% 50°C burn-in test
 UL, cUL, approved
 Meets TUV standard



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPP-AS20	5V	2A	26W	70mV	68%
	12V	1A		150mV	
	-12V	0.3A		120mV	

SPP-AS21 - 26.9W Dual Output AC-DC Open Frame PSU**Features**

Low ripple noise
 Over voltage, short circuit protections
 100% 50°C burn-in test
 UL, cUL, approved
 Meets TUV standard



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPP-AS21	5V	2.5A	27W	120mV	71%
	12V	1.2A		150mV	

PLP-30 Series - 30W Single Output Open Frame LED Lighting Power Supply

Applications

Small scale moving signs
LED-based decorative lighting
LED stage lighting equipment



Features

Universal AC input / Full range
Short circuit, over load, over voltage protections
Built-in active PFC function
Cooling by free air convection
No minimum load requirement
100% full load burn-in test
High reliability
Suitable for LED lighting and moving sign applications

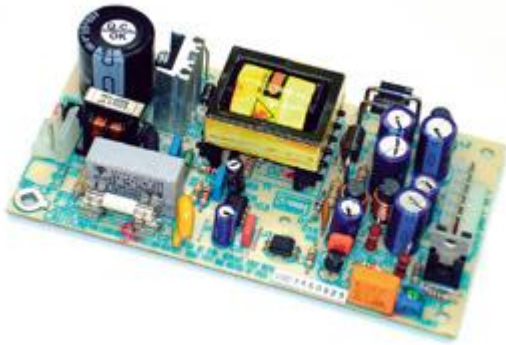


Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
PLP-30-12	12V	2.5A	30W	2V	83%
PLP-30-24	24V	1.3A	31.2W	2.4V	86%
PLP-30-48	48V	1A	30.24W	4.8V	86.5%

Description

PLP-30 Series are a range of 30W open frame power supplies designed for low cost and built-in installation of LED lighting related applications.

SNP-903 Series - 30W Single Output Open Frame Power Supply



Features to follow

Model No	Voltage	Rated Load	Power(Watts)	Peak Load
SNP-9036	5V	6A	30W	10A
SNP-9037	12V	2.5A	30W	4A
SNP-9038	15V	2A	30W	3A
SNP-9039	24V	1.3A	30W	2A

Description

SNP-903 Series is a 30W universal input switching mode power supply designed to meet UL, CSA, VDE regulations and EMI 243/1991. Available with various output options including single output, dual output and triple output.

SPP-AS Series - 26.4~31.2W Single Output AC-DC Open Frame PSU



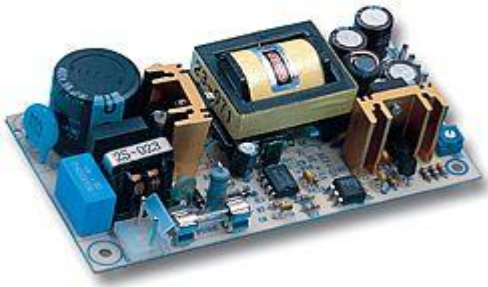
Features

- Low ripple noise
- Over voltage, short circuit protections
- 100% 50°C burn-in test
- UL, cUL, approved
- Meets TUV standard



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPP-AS22	12V	2.2A	26.4W	120mV	71%
SPP-AS23	15V	2A	30W	150mV	73%
SPP-AS24	24V	1.3A	31.2W	200mV	75%

SPP-A Series - 20-32W Single Output Open Frame Power Supply



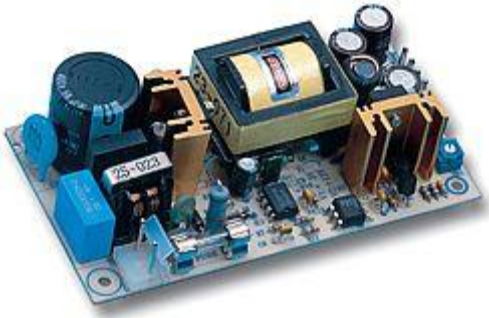
Features

- Light weight, compact size
- High reliability, High efficiency
- Low ripple noise
- Over load, voltage, short circuit protection, shutdown and auto recovery
- 100% 50°C burn-in test
- UL, CSA, TUV, CE approved
- Meet EMI EN55022 & EMS EN55024 standard



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPP-A021	5V	4A	20W	70mV	61%
SPP-A031	5V	6A	30W	70mV	62%
SPP-A022	12V	2A	24W	120mV	70%
SPP-A032	12V	2.5A	30W	120mV	70%
SPP-A033	15V	2A	30W	150mV	73%
SPP-A023	15V	2A	30W	150mV	74%
SPP-A024	24V	1A	24W	240mV	74%
SPP-A034	24V	1.3A	31.2W	240mV	75%

SPP-A single Series - 20-32W Single Output Open Frame Power Supply



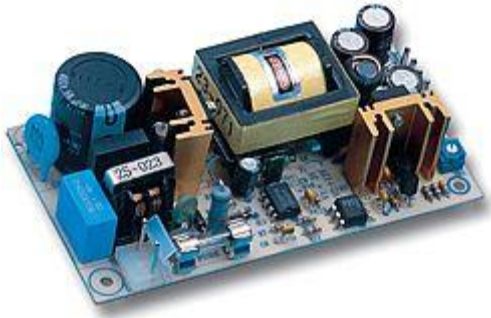
Features

Light weight, compact size
High reliability, High efficiency
Low ripple noise
Over load, voltage, short circuit protection, shutdown and auto recovery
100% 50°C burn-in test
UL, CSA, TUV, CE approved
Meet EMI EN55022 & EMS EN55024 standard



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPP-A021	5V	4A	20W	70mV	61%
SPP-A031	5V	6A	30W	70mV	62%
SPP-A022	12V	2A	24W	120mV	70%
SPP-A032	12V	2.5A	30W	120mV	70%
SPP-A033	15V	2A	30W	150mV	73%
SPP-A023	15V	2A	30W	150mV	74%
SPP-A024	24V	1A	24W	240mV	74%
SPP-A034	24V	1.3A	30W	240mV	75%

SPP-A Dual Series - 20-32W Dual Output Open Frame Power Supply



Features

- Light weight, compact size
- High reliability, High efficiency
- Low ripple noise
- Over load, voltage, short circuit protection, shutdown and auto recovery
- 100% 50°C burn-in test
- UL, CSA, TUV, CE approved
- Meet EMI EN55022 & EMS EN55024 standard



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPP-A020	5V	2A	22W	70mV	63%
	12V	1A		150mV	
SPP-A025	5V	4A	25W	70mV	66%
	-5V	1A		150mV	
SPP-A030	5V	3A	30W	70mV	66%
	12V	1.2A		150mV	

EPS-35 Series - 35W Single Output Open Frame Switching Power Supply



Features

- Universal AC input/Full range
- High efficiency up to 90%
- Protections: Short circuit/Overload/Over voltage
- Cooling by free air convection
- 2" x 3" compact size
- LED indicator for power on
- No load power consumption <0.3W



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
EPS-35-3-3	3.3V	6A	19.8W	50mV	80%
EPS-35-5	5V	6A	30W	70mV	82%
EPS-35-7-5	7.5V	4.7A	35.25W	80mV	84%
EPS-35-12	12V	3A	36W	110mV	87%
EPS-35-15	15V	2.4A	36W	110mV	88%
EPS-35-24	24V	1.5A	36W	180mV	89%
EPS-35-27	27V	1.3A	35.1W	180mV	89%
EPS-35-36	36V	1A	36W	200mV	89%
EPS-35-48	48V	0.75A	36W	240mV	90%

Description

The EPS-35 series is a 35W miniature 3" x 2" open frame power supply, with up to date high efficiency circuit design the series possesses up to 90% of high efficiency. With protections including short circuit, overload and over voltage and standard features including no-load power consumption, cooling by free air convection and LED indicator for power on.

PS-35 Series - 35W Single Output Open Frame Power Supply

Applications

Factory automation
Telecommunications
Networking
Test & Measurement
POS Systems



Features

Full range AC input
Compact size
High power density 4.62W/in³
Fixed switching frequency at 60KHz
Cooling by free air convection
Short circuit, over load & over voltage protections
100% full load burn-in test



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
PS-35-3-3	3.3V	6A	20W	80mV	70%
PS-35-5	5V	6A	30W	100mV	78%
PS-35-7-5	8V	5A	35.25W	100mV	80%
PS-35-12	12V	3A	36W	120mV	81%
PS-35-13-5	14V	6A	35.1W	120mV	81%
PS-35-15	15V	3A	36W	150mV	81%
PS-35-24	24V	2A	36W	200mV	85%
PS-35-48	48V	1A	36W	240mV	84%

Description

PS-35 Series are miniature open frame switching power supplies with a profile of 4" x 2" targeting the miniature trend of electronic products in general industrial applications. Inserting the latest circuit design concepts the range is able to provide efficiency up to 6% higher than the first generation of PCB products and full load power via free air convection at 50°C. Complying with UL, cUL, TUV, CB and CE global safety and performance standards and possessing complete protection mechanisms for short circuit, overload and over voltage.

SPP-B Series - 20-45W Dual Output Open Frame Power Supply



Features

- Light Weight, compact size
- High efficiency, high reliability
- Low ripple noise
- Over load, voltage, short circuit protection
- 100% 50°C burn-in test
- UL/ CSA/ CE approved



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPP-B020	5V	2A	32W	70mV	67%
	12V	2A		120mV	
SPP-B030	5V	2.5A	27W	70mV	70%
	12V	1.2A		120mV	
SPP-B040	5V	3A	39W	70mV	70%
	12V	2A		120mV	

SPP-C Series - 28-45W Single Output Open Frame Power Supply



Features

- Light weight, compact size
- High efficiency, high reliability
- Low ripple & noise
- Over load, voltage, short circuit protection
- 100% 50°C burn-in test
- UL/ CSA/ CE approved



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPP-C035	5V	6A	30W	70mV	67%
SPP-C045	5V	8A	40W	70mV	68%
SPP-C038	24V	1.3A	31.2W	240mV	75%
SPP-C048	24V	2A	48W	240mV	77%

SPP-C Dual Series - 28-45W Dual Output Open Frame Power Supply**Features**

Light weight, compact size
 High efficiency, high reliability
 Low ripple & noise
 Over load, voltage, short circuit protection
 100% 50°C burn-in test
 UL/ CSA/ CE approved



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPP-C033	5V	2.5A	12.5W	50mV	70%
	12V	2A		120mV	
SPP-C034	5V	2A	10W	50mV	72%
	24V	1A		240mV	
SPP-C036	12V	2.5A	30W	120mV	70%
	-12V	0.3A		120mV	
SPP-C037	5V	2A	10W	120mV	70%
	-15V	0.3A		120mV	
SPP-C043	5V	4A	20W	50mV	72%
	12V	2A		120mV	
SPP-C044	5V	2A	10W	50mV	71%
	24V	1.3A		240mV	
SPP-C046	12V	4A	48W	120mV	75%
	-12V	0.5A		120mV	
SPP-C047	15V	3A	45W	150mV	77%
	-15V	0.3A		150mV	

SPP-C Triple Series - 28-45W Triple Output Open Frame Power Supply**Features**

Light weight, compact size
 High efficiency, high reliability
 Low ripple & noise
 Over load, voltage, short circuit protection
 100% 50°C burn-in test
 UL/ CSA/ CE approved



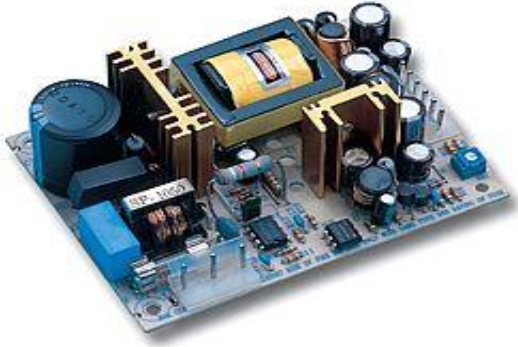
Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPP-C030	5V	2A	36W	50mV	68%
	12V	2A		120mV	
	-12V	0.3A		120mV	
SPP-C031	5V	3A	30.6W	50mV	68%
	12V	1A		120mV	
	-12V	0.3A		100mV	
SPP-C032	5V	2A	32.5W	50mV	71%
	15V	1.2A		150mV	
	-15V	0.3A		150mV	
SPP-C040	5V	3A	42.6W	50mV	70%
	12V	2A		120mV	
	-12V	0.3A		120mV	
SPP-C041	5V	4A	47.6W	50mV	70%
	12V	2A		120mV	
	-12V	0.3A		120mV	
SPP-C042	5V	3A	49.5W	50mV	73%
	15V	2A		150mV	
	-15V	0.3A		150mV	

SPP-D Single Series - 30-45W Single Output Open Frame Power Supply**Features**

Light weight, Compact size
 High efficiency, High reliability
 Low ripple & noise
 Over load, voltage, Short circuit protection
 100% 50°C burn-in test
 UL, CSA, CE Approved



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPP-D034	5V	6A	30W	100mV	67%
SPP-D037	24V	1.3A	31.2W	240mV	75%
SPP-D047	24V	2A	48W	240mV	76%

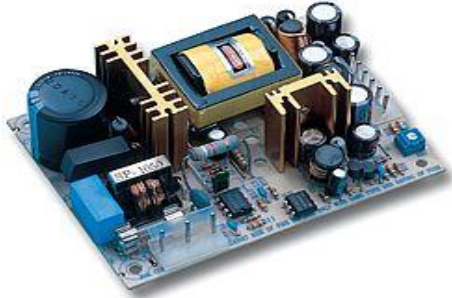
SPP-D Dual Series - 30-45W Dual Output Open Frame Power Supply**Features**

Light weight, Compact size
 High efficiency, High reliability
 Low ripple & noise
 Over load, voltage, Short circuit protection
 100% 50°C burn-in test
 UL, CSA, CE Approved



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPP-D032	5V	2A	34W	70mV	72%
	12V	2A		120mV	
SPP-D033	5V	3A	39W	70mV	71%
	12V	2A		120mV	
SPP-D035	12V	2.5A	33.6W	120mV	72%
	-12V	0.3A		200mV	
SPP-D036	15V	2A	34.5W	150mV	74%
	-15V	0.3A		200mV	
SPP-D043	5V	3A	39W	70mV	72%
	12V	2A		120mV	
SPP-D044	5V	2A	41.2W	70mV	75%
	24V	1.3A		240mV	
SPP-D045	12V	3A	39.6W	120mV	74%
	-12V	0.3A		240mV	
SPP-D046	15V	2.5A	42W	150mV	75%
	-15V	0.3A		200mV	

SPP-D Triple Series - 30-45W Triple Output Open Frame Power Supply



Features

- Light weight, Compact size
- High efficiency, High reliability
- Low ripple & noise
- Over load, voltage, Short circuit protection
- 100% 50°C burn-in test
- UL, CSA, TUV, CE Approved



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPP-D030	5V	2A	37.6W	70mV	70%
	12V	2A		120mV	
	-12V	0.3A		240mV	
SPP-D031	5V	2A	35.5W	70mV	70%
	12V	2A		120mV	
	-5V	0.3A		100mV	
SPP-D041	5V	3A	40.5W	70mV	70%
	12V	2A		120mV	
	-5V	0.3A		100mV	
SPP-D042	5V	3A	49.5W	70mV	70%
	15V	2A		150mV	
	-15V	0.3A		200mV	
SPP-D040	5V	3A	42.6W	70mV	70%
	12V	2A		120mV	
	-12V	0.3A		240mV	

PLP-45 Series - 45W Single Output Open Frame LED Lighting Power Supply**Applications**

Small scale moving signs
 LED-based decorative lighting
 LED stage lighting equipment

**Features**

Universal AC input / Full range
 Short circuit, over load, over voltage protections
 Built-in active PFC function
 Cooling by free air convection
 Output current level adjustable
 100% full load burn-in test
 High reliability
 Suitable for built-in LED lighting applications



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
PLP-45-12	12V	4A	46W	-	86%
PLP-45-24	24V	2A	46W	-	89%
PLP-45-48	48V	1A	46W	-	89%

Description

PLP-45 Series are a range of 45W open frame power supplies designed for low cost and built-in installation of LED lighting related applications.

EPS-45 Series - 45W Single Output Open Frame 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



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
EPS-45-3-3	3.3V	8A	26.4W	80mV	80%
EPS-45-5	5V	8A	40W	80mV	82%
EPS-45-7-5	7.5V	5.4A	40.5W	100mV	84%
EPS-45-12	12V	3.75A	45W	120mV	87%
EPS-45-15	15V	3A	45W	150mV	88%
EPS-45-24	24V	1.9A	45.6W	240mV	89%
EPS-45-36	36V	1.25A	45W	280mV	89%
EPS-45-48	48V	1A	48W	300mV	90%

Description

The EPS-45 series is a 45W 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. This unit can also be provided with a case to protect the components. Please view EPS-45-C.

PS-45 Series - 45W Single Output Open Frame Power Supply**Features**

High reliability
 Short circuit/ over voltage/ overload protection
 High efficiency, low working temp.
 Built in EMI filter, low ripple noise
 Compact size, light weight
 100% full load burn-in test



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
PS-45-3-3	3.3V	8A	26.4W	80mV	69%
PS-45-5	5V	8A	40W	100mV	74%
PS-45-7-5	8V	5.4A	40.5W	100mV	75%
PS-45-12	12V	4A	44.4W	100mV	76%
PS-45-13-5	14V	3.3A	45W	100mV	77%
PS-45-15	15V	3A	45W	100mV	77%
PS-45-24	24V	2A	46W	100mV	78%
PS-45-27	27V	2A	46W	100mV	78%
PS-45-48	48V	1A	48W	100mV	78%

PD-45 Series - 45W Dual Output Open Frame Power Supply



Features

- Universal AC Input
- High reliability
- Short circuit, over voltage, overload protection
- Low leakage current <0.75mA
- Compact size, light weight
- 100% full load burn-in test
- Fixed switching frequency at 65KHz



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
PD-45A	5V	3.2A	40W	50mV	77%
	12V	2A		120mV	
PD-45B	5V	3.2A	45W	50mV	78%
	24V	1.2A		150mV	

PT-45 Series - 45W Triple Output Open Frame Power Supply



Features

- High reliability
- Universal AC input
- Short circuit, over voltage, over load protections
- High efficiency, low working temp.
- Low leakage current <0.5mA
- Cooling by free air convection
- Compact size, light weight
- Fixed switching frequency at 65KHz
- 100% full load burn-in test



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
PT-45A	5V	3A	40.5W		75%
	12V	2A			
	-5V	0.3A			
PT-45B	5V	3A	43W	50mV	75%
	12V	2A		120mV	
	-12V	0.3A		100mV	
PT-45C	5V	3A	44W	50mV	75%
	15V	2A		120mV	
	-15V	0.3A		100mV	

PT-4503 - 45W Triple Output Open Frame Power Supply



Features

- Universal AC input
- Short circuit, over load, over voltage protections
- Cooling by free air convection
- 100% full load burn-in test
- Fixed switching frequency at 65KHz



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
PT-4503	3.3V	4A	45W	50mV	72%
	5V	4A		50mV	
	12V	1A		100mV	

SPP-B Series - 20-45W Dual Output Open Frame Power Supply



Features

- Light Weight, compact size
- High efficiency, high reliability
- Low ripple noise
- Over load, voltage, short circuit protection
- 100% 50°C burn-in test
- UL/ CSA/ CE approved



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPP-B020	5V	2A	34W	70mV	67%
	12V	2A		120mV	
SPP-B030	5V	2.5A	26.9W	70mV	70%
	12V	1.2A		120mV	
SPP-B040	5V	3A	39W	70mV	70%
	12V	2A		120mV	

SPP-E Dual Series - 20-50W Dual Output Open Frame Power Supply



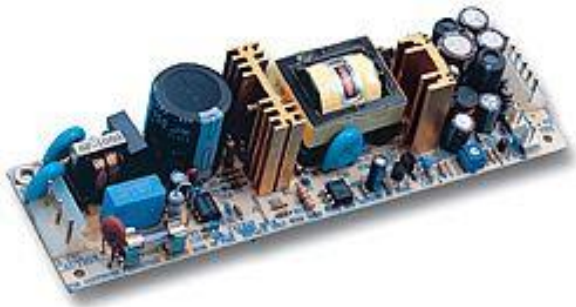
Features

- Light weight, compact size
- High efficiency, high reliability
- Low ripple & noise
- Over load, voltage, short circuit protection
- 100% 50°C burn-in test
- UL, CSA, CE approved



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPP-E021	5V	2A	34W	50mV	63%
	12V	2A		120mV	
SPP-E031	5V	2A	34W	70mV	68%
	12V	2A		120mV	
SPP-E032	5V	2.5A	36.6W	70mV	68%
	12V	2A		120mV	
SPP-E041	5V	3A	39W	70mV	71%
	12V	2A		120mV	
SPP-E052	5V	5A	39W	70mV	71%
	12V	2A		150mV	

SPP-E Triple Series - 20-50W Triple Output Open Frame Power Supply



Features

- Light weight, compact size
- High efficiency, high reliability
- Low ripple & noise
- Over load, voltage, short circuit protection
- 100% 50°C burn-in test
- UL, CSA, CE approved



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPP-E020	5V	2A	28W	50mV	63%
	12V	1.2A		120mV	
	-12V	0.3A		200mV	
SPP-E030	5V	2A	37.6W	70mV	68%
	12V	2A		120mV	
	-12V	0.3A		200mV	
SPP-E050	5V	4A	50W	70mV	71%
	12V	2.2A		150mV	
	-12V	0.3A		200mV	
SPP-E051	5V	5A	50W	70mV	71%
	12V	2A		150mV	
	-12V	0.1A		120mV	
SPP-E040	5V	3A	45W	70mV	70%
	12V	2.2A		120mV	
	-12V	0.3A		200mV	

LPS-50 Series - 50W Single Output Open Frame Power Supply



Features

- Universal, full range, AC input
- Short circuit, over load, over voltage protections
- Cooling by free air convection
- Small and compact size
- Built-in remote ON-OFF control
- LED indicator for power on
- 100% full load burn-in test
- Low profile: 23mm thickness



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
LPS-50-3-3	3.3V	10A	33W	50mV	75%
LPS-50-5	5V	10A	50W	50mV	81%
LPS-50-12	12V	4.2A	50.4W	80mV	82%
LPS-50-15	15V	3.4A	51W	80mV	84%
LPS-50-24	24V	2.1A	50.4W	80mV	85%
LPS-50-48	48V	1.1A	53W	100mV	86%

SPL-055-D1 - 55W L Bracket Dual Output AC-DC Open Frame PSU

Applications

LCD Panels



Features

- Light weight, compact size
- 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



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPL-055-D1	5V	8A	55W	50mV	70%
	12V	2A		100mV	

SNP-YL6 S Series - 60W AC/DC Single Output Open Frame PSU

Applications

ITE
Medical



Features

- Only 1.18 inch height
- 3.1 Watt per cubic inch
- With ITE & Medical safety
- Efficiency between 75% to 86%
- Operation from 0°C to 70°C by convection
- Single side PCB for low assembly cost



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SNP-YL6B	3.3V	10A	60W	50mV	75%
SNP-YL66	5V	10A	60W	50mV	78%
SNP-YL67-1	12V	5A	60W	50mV	81%
SNP-YL68-1	15V	4A	60W	50mV	82%
SNP-YL69-1	24V	3A	60W	50mV	83%
SNP-YL6T	48V	1.25A	60W	50mV	86%

PSC-60 Series - 60W AC/DC Security Power Supply

Applications

- Security systems
- Emergency lighting systems
- UPS systems
- Central monitoring systems
- Automatic door systems



Features

- Universal AC input
- Short circuit, over load, over voltage protections
- Battery low protections/Battery polarity protection by fuse
- Alarm signal for AC OK and Bat. low
- Cooling by free air convection
- UL, CUL, TUV, CE and CB Approvals



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
PSC-60A	14V	3A	59.34W	120mV	
	14V	2A			
PSC-60B	28V	1.4A	59.34W	240mV	
	28V	1A			

RPS-60 Series - 60W Single Output Open Frame Medical PSU



Features

- Suitable for IT and Medical applications
- 4"x2" miniature size
- Universal AC input/Full range
- Low leakage current <200uA
- Short circuit/Over load/Over voltage protection
- Cooling by free air convection
- UL60601-1/IEC60601-1/EN60601-1 medical safety approved
- UL60950-1/IEC60950-1/EN60950-1 ITE safety approved
- No load power consumption <0.75W
- 110% peak load capability
- Fixed switch frequency at 100KHz



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
RPS-60-3-3	3.3V	10A	33W	80mV	74%
RPS-60-5	5V	10A	50W	80mV	79%
RPS-60-12	12V	5A	60W	120mV	83%
RPS-60-15	15V	4A	60W	150mV	84%
RPS-60-24	24V	2.5A	60W	240mV	85%
RPS-60-48	48V	1.25A	60W	300mV	86%

RPT-60 Series - 60W Triple Output Open Frame Medical PSU



Features

- Suitable for IT and Medical applications
- 4"x2" miniature size
- Universal AC input/Full range
- Low leakage current <200uA
- Short circuit/Over load/Over voltage protection
- Cooling by free air convection
- UL60601-1/IEC60601-1/EN60601-1 medical safety approved
- UL60950-1/IEC60950-1/EN60950-1 ITE safety approved*
- Fixed switch frequency at 100KHz



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
RPT-60A	5V	4A	46.5W	80mV	77%
	12V	2A		80mV	
	-5V	0.5A		80mV	
RPT-60B	5V	4A	50W	80mV	78%
	12V	2A		80mV	
	-12V	0.5A		100mV	
RPT-60C	5V	4A	50W	80mV	79%
	24V	2A		100mV	
	12V	0.5A		150mV	
RPT-60D	3.3V	4A	48W	80mV	79%
	5V	1A		150mV	
	12V	0.5A		80mV	
RPT-6003	3.3V	5A	40W	80mV	75%
	5V	3A		80mV	
	12V	1A		80mV	

Description

Developed for medical and IT applications with the requirement of reduced profiles and complying with both medical and industrial agency standards these units can deliver their fully rated output of 50 to 60W with only free air convection and also have 10% more peak load capability than their larger rivals. Featuring only 200uA of leakage current at 264Vac they can be installed into non-patient contact medical equipment and still comply with Class B EMI regulations. The reduced height of 29mm also makes the unit suitable for 1U applications or other height constraint applications.

PLP-60 Series - 60W Single Output Open Frame LED Lighting Power Supply

Applications

- Small scale moving signs
- LED-based decorative lighting
- LED stage lighting equipment
- Colour mix controller for LED strips



Features

- Universal AC input / Full range
- Short circuit, over load, over voltage protections
- Built-in active PFC function
- Cooling by free air convection
- No minimum load requirement
- 100% full load burn-in test
- High reliability
- Suitable for LED lighting and moving sign applications



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
PLP-60-12	12V	5A	60W	4.5mV	84%
PLP-60-24	24V	2.5A	60W	4.5mV	88%
PLP-60-48	48V	1.3A	62.5W	4.5mV	89%

Description

PLP-60 Series are a range of 60W open frame power supplies designed for low cost and built-in installation of LED lighting related applications.

SNP-YL6 D Series - 60W AC/DC Dual Output Open Frame PSU



Features

- Only 1.18 inch height
- 3.1 Watt per cubic inch
- With ITE & Medical safety
- Efficiency between 75% to 86%
- Operation from 0°C to 70°C by convection
- Single side PCB for low assembly cost

Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SNP-YL63	5V	3A	60W	-	80%
	12V	4A			
SNP-YL67	12V	5A	60W	-	81%
	5V	0.5A			
SNP-YL68	15V	4A	60W	-	82%
	5V	0.5A			
SNP-YL69	24V	2.4A	60W	-	83%
	5V	0.5A			

RPD-60 Series - 60W Dual Output Open Frame Medical PSU

Applications

- Non-patient connect medical
- General electronic
- Low profile IT equipment



Features

- Suitable for IT and Medical applications
- 4"x2" miniature size
- Universal AC input/Full range
- Low leakage current <200uA
- Short circuit/Over load/Over voltage protection
- Cooling by free air convection
- UL60601-1/IEC60601-1/EN60601-1 medical safety approved
- UL60950-1/IEC60950-1/EN60950-1 ITE safety approved*
- No load power consumption <0.75W
- 110% peak load capability
- Fixed switch frequency at 100KHz



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
RPD-60A	5V	5A	49W	80mV	78%
	12V	2A		80mV	
RPD-60B	5V	4A	54W	80mV	82%
	24V	2A		100mV	

Description

Developed for medical and IT applications with the requirement of reduced profiles and complying with both medical and industrial agency standards these units can deliver their fully rated output of 50 to 60W with inlay free air convection and also have 10% more peak load capability than their larger rivals. Featuring only 200uA of leakage current at 264Vac they can be installed into non-patient contact medical equipment and still comply with Class B EMI regulations. Standard functions include no load power consumption for single output models as low as 0.75W that can be used in powering electronic equipment requiring the green mode facility. The reduced height of 29mm also makes the unit suitable for 1U applications or other height constraint applications.

SNP-YL6 Q Series - 60W AC/DC Quad Output Open Frame PSU

Applications

ITE
Medical



Features

Only 1.18 inch height
 3.1 Watt per cubic inch
 With ITE & Medical safety
 Efficiency between 75% to 86%
 Operation from 0°C to 70°C by convection
 Single side PCB for low assembly cost

Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SNP-YL6E	3.3V	5A	60W	50mV	77%
	5V	4A			
	12V	1A			
	-12V	1A			
SNP-YL60	5V	3A	60W	60mV	80%
	12V	3A			
	-12V	0.3A			
	-5V	0.3A			

SNP-YL6 T Series - 60W AC/DC Triple Output Open Frame PSU

Applications

ITE
Medical



Features

Only 1.18 inch height
 3.1 Watt per cubic inch
 With ITE & Medical safety
 Efficiency between 75% to 86%
 Operation from 0°C to 70°C by convection
 Single side PCB for low assembly cost

Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SNP-YL61	5V	3A	60W	-	80%
	12V	3A			
	-12V	0.3A			

SPP-F Single Series - 40~65W Single Output Open Frame Power Supply



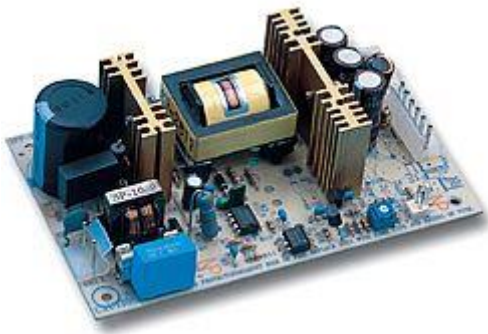
Features

- Light weight, compact size
- High efficiency, high reliability
- Low ripple noise
- Over load, voltage, short circuit protection
- 100% 50°C burn-in test
- UL, CSA, CE approved



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPP-F046	5V	8A	40W	70mV	66%
SPP-F049	24V	2A	48W	240mV	78%
SPP-F067	24V	2.5A	60W	100mV	80%

SPP-F Dual Series - 40~65W Dual Output Open Frame Power Supply



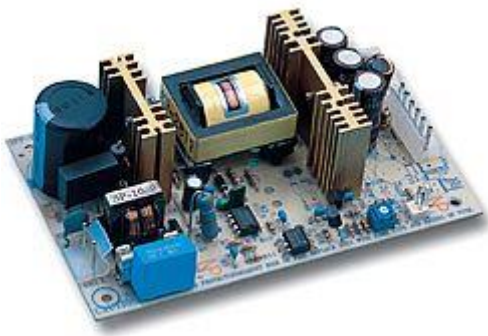
Features

- Light weight, compact size
- High efficiency, high reliability
- Low ripple noise
- Over load, voltage, short circuit protection
- 100% 50°C burn-in test
- UL, CSA, TUV, CE approved



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPP-F043	5V	3A	39W	70mV	70%
	12V	2A		150mV	
SPP-F047	12V	3.5A	44W	120mV	72%
	-12V	0.3A		240mV	
SPP-F048	15V	2.7A	45W	240mV	77%
	-15V	0.3A		150mV	
SPP-F063	5V	6A	60W	70mV	74%
	12V	2.5A		120mV	
SPP-F065	12V	5A	65W	120mV	73%
	-12V	0.3A		240mV	
SPP-F066	15V	4A	65W	150mV	77%
	-15V	0.3A		300mV	

SPP-F Triple Series - 40~65W Triple Output Open Frame Power Supply



Features

- Light weight, compact size
- High efficiency, high reliability
- Low ripple noise
- Over load, voltage, short circuit protection
- 100% 50°C burn-in test
- UL, CSA, TUV, CE approved



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPP-F041	5V	3A	40W	70mV	70%
	12V	2A		150mV	
	-12V	0.3A		240mV	
SPP-F042	5V	3A	40W	70mV	70%
	12V	2A		100mV	
	-5V	0.3A		150mV	
SPP-F044	5V	3A	40W	50mV	70%
	15V	1.5A		150mV	
	-15V	0.3A		150mV	
SPP-F045	5V	5A	45W	50mV	70%
	12V	2A		120mV	
	-5V	0.3A		100mV	
SPP-F061	5V	4A	65W	70mV	73%
	12V	3A		120mV	
	-12V	0.3A		240mV	
SPP-F062	5V	5A	65W	70mV	73%
	12V	3A		120mV	
	-5V	0.3A		100mV	

SPP-F Quad Series - 40~65W Quad Output Open Frame Power Supply



Features

- Light weight, compact size
- High efficiency, high reliability
- Low ripple noise
- Over load, voltage, short circuit protection
- 100% 50°C burn-in test
- UL, CSA, CE approved



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPP-F040	5V	3A	40W	70mV	70%
	12V	2A		100mV	
	-5V	0.3A		150mV	
	-12V	0.3A		240mV	
SPP-F060	5V	4A	65W	70mV	72%
	12V	3A		120mV	
	-12V	0.3A		240mV	
	-5V	0.3A		100mV	

PS-65 Series - 65W Single Output AC-DC Open Frame Power Supply



Features

- Universal AC input
- Low leakage current <0.5mA
- Short circuit, over voltage, over load protections
- Cooling by free air convection
- Fixed switching frequency at 65KHz
- 100% full load burn-in test

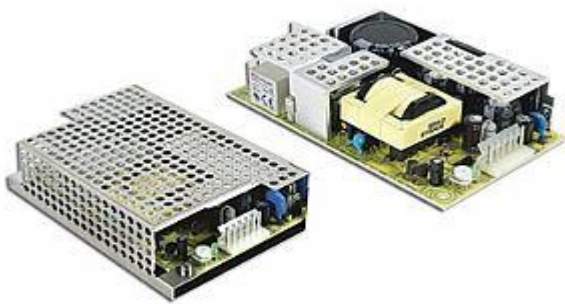


Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
PS-65-3-3	3.3V	12A	40W	80mV	69%
PS-65-5	5V	12A	60W	100mV	76%
PS-65-7-5	8V	8A	60W	100mV	79%
PS-65-12	12V	5.2A	62.4W	100mV	79%
PS-65-13-5	14V	5A	64W	100mV	79%
PS-65-15	15V	4.2A	63W	100mV	79%
PS-65-24	24V	3A	65W	100mV	80%
PS-65-27	27V	2.4A	65W	100mV	80%
PS-65-48	48V	1.35A	65W	100mV	80%

RPD-65 Series - 65W Dual Output Switching Power Supply

Applications

- Motor based machinery
- Automation
- Test equipment
- POS systems
- Franking machines

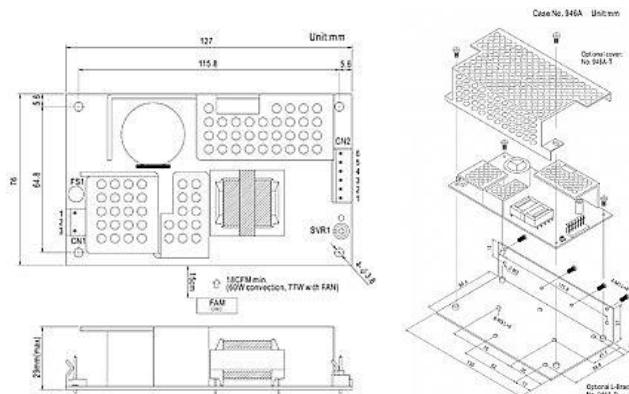


Features

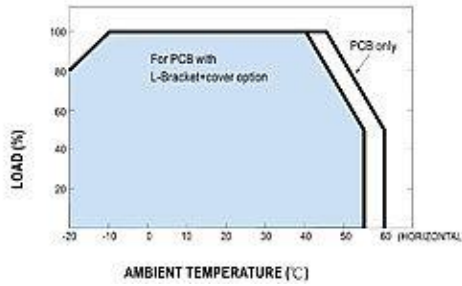
- Universal AC input/ Full range
- 12V or 24V high peak output current capability
- Optional L-Bracket and cover
- Short circuit/over load/over voltage protection
- 100% full load burn-in test
- Fixed switching frequency at 65KHz



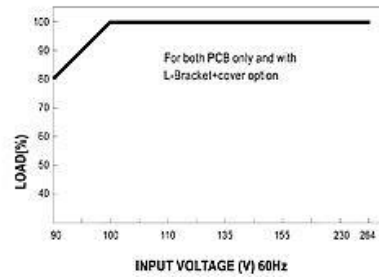
Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
RPD-65C	12V	4.5A	65W	120mV	79%
	5V	1.2A		50mV	
RPD-65D	24V	2.25A	65W	150mV	81%
	5V	1.2A		50mV	



■ Output Derating



■ Output Derating VS Input Voltage



Description

RPD-65 series are dual output switching power supplies that can provide 60-66W of convection cooled power. With 5" x 3" x 1.15" small footprint these compact switchers are ideal for 1U installations or other space constrained applications. Possessing a 12V or 24V main output channel with high peak load capability and 5V channel for logic control usage. Accompany with the optional L-bracket and cover to provide more alternatives for system configuration if the external protective coverage is needed or the mounting space has constraints.

RPT-65 Series - 65W Triple Output AC/DC Open Frame Power Supply

Applications

- Motor based machinery
- Automation
- Test equipment
- POS systems
- Franking machines



Features

- Universal AC input/ Full range
- 12V or 24V high peak output current capability
- Optional L-Bracket and cover
- Low leakage current <1mA
- Short circuit, over load, over voltage protections
- 65W free air convection, 80W with 18CFM forced air
- 100% full load burn-in test
- Fixed switching frequency at 65KHz



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
RPT-65E	12V	4.5A	62.5W	120mV	77%
	5V	1.2A		100mV	
	-5V	0.5A		120mV	
RPT-65F	12V	4.5A	66W	150mV	77%
	5V	1.2A		100mV	
	-12V	0.5A		150mV	
RPT-65G	24V	2.25A	66W	150mV	81%
	5V	1.2A		50mV	
	12V	0.5A		100mV	

Description

RPT-65 series are triple output switching power supplies that can provide 60-66W of convection cooled power. With 5" x 3" x 1.15" small footprint these compact switchers are ideal for 1U installations or other space constrained applications. Possessing a 12V or 24V main output channel with high peak load capability and 5V

channel for logic control usage. Accompany with the optional L-bracket and cover to provide more alternatives for system configuration if the external protective coverage is needed or the mounting space has constraints.

EPS-65 Series - 65W Single Output Open Frame 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



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
EPS-65-3-3	3.3V	11A	36.3W	80mV	80%
EPS-65-5	5V	11A	55W	80mV	82%
EPS-65-7-5	7.5V	8A	60W	100mV	84%
EPS-65-12	12V	5.42A	65.04W	120mV	86%
EPS-65-15	15V	4.34A	65.1W	150mV	87%
EPS-65-24	24V	2.71A	65.04W	240mV	88%
EPS-65-36	36V	1.81A	72W	280mV	89%
EPS-65-48	48V	1.36A	72W	300mV	90%

Description

The EPS-65 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. This unit can also be provided with a case to protect the components. Please view EPS-65-C.

PD-65 Series - 65W Dual Output Open Frame Power Supply

Applications

Audio equipment
Communications



Features

Universal AC input voltage
Low leakage current <0.5mA
Short circuit/ over voltage/ overload protection
High efficiency
Wide range working temperature
Fixed switching frequency at 65KHz
100% full load burn-in test



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
PD-65A	5V	6A	61.1W	50mV	78%
	12V	3A		120mV	
PD-65B	5V	4A	66W	50mV	81%
	24V	2A		150mV	

Description

PD-65 Series are a range of open frame ac/dc dual output power supplies with universal ac input. Providing up to 65W of output power as a convection cooled power supply or 72W with 18CFM forced air and operating temperature range of -10°C to +60°C this is a very flexible open frame power supply. Features include low leakage current <0.5mA and short circuit, over load and over voltage protections.

PT-65 Series - 65W Triple Output AC-DC Open Frame Power Supply



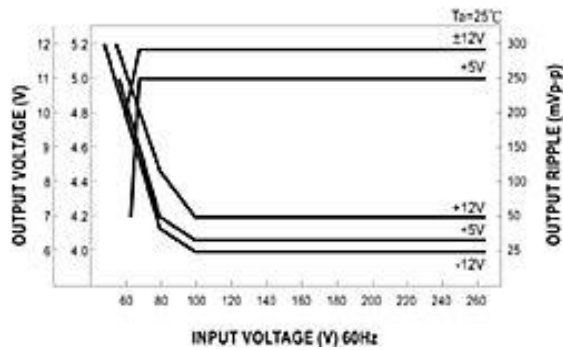
Features

- Short circuit/ over voltage/ overload protection
- High efficiency
- Low leakage current
- Built in EMI filter, low ripple noise
- Compact size, light weight
- 100% full load burn-in test
- Fixed switching frequency at 65KHz

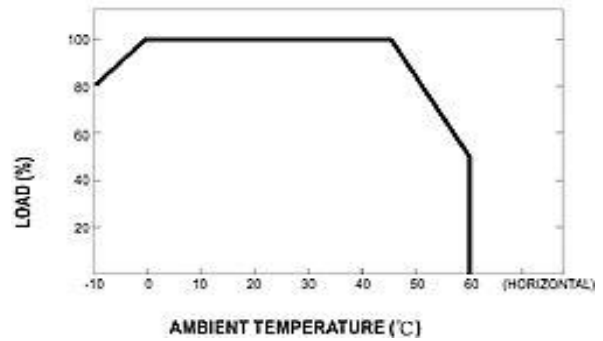


Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
PT-65A	5V	6A	60W	50mV	76%
	12V	2.5A		120mV	
	-5V	0.5A		50mV	
PT-65-B	5V	6A	64W	50mV	77%
	12V	2.5A		120mV	
	-12V	0.5A		100mV	
PT-65C	5V	6A	65W	50mV	77%
	15V	2A		120mV	
	-15V	0.5A		100mV	
PT-65D	5V	4A	68W	50mV	79%
	12V	2A		100mV	
	24V	1A		200mV	

Static Characteristics (B)

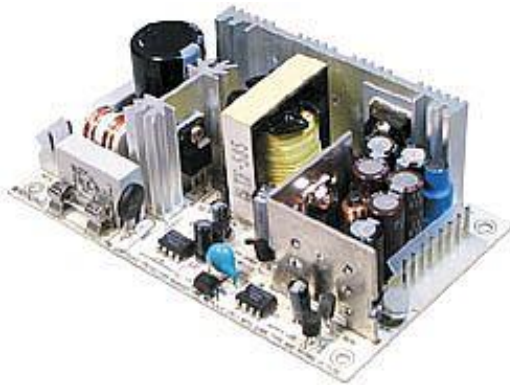


Output Derating



Avanti Power Repairs Ltd

PT-6503 - 65W Triple Open Frame Power Supply



Features

- Universal AC input
- High reliability
- Short circuit, over voltage, over load protections
- Compact size, light weight
- Cooling by free air convection
- 100% full load burn in test
- Fixed switching frequency at 65KHz



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
PT-6503	3.3V	6A	65W	50mV	72%
	5V	6A		50mV	
	12V	1A		100mV	

SPP-G Single Series - 60~70W Single Output Open Frame Power Supply



Features

- Light weight, compact size
- High efficiency, high reliability
- Low ripple noise
- Over load, over voltage, short circuit protection
- 100% 50°C burn-in test
- UL, CSA, CE approved



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPP-G067	24V	3A	72W	240mV	80%

SPP-G Dual Series - 60~70W Dual Output Open Frame Power Supply



Features

- Light weight, compact size
- High efficiency, high reliability
- Low ripple noise
- Over load, over voltage, short circuit protection
- 100% 50°C burn-in test
- UL, CSA, CE approved



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPP-G063	5V	6A	66W	50mV	74%
	12V	3A		120mV	
SPP-G065	12V	6A	72W	120mV	75%
	-12V	0.3A		120mV	
SPP-G066	15V	4.5A	67.5W	150mV	77%
	-15V	0.3A		150mV	

SPP-G Triple Series - 60~70W Triple Output Open Frame Power Supply



Features

- Light weight, compact size
- High efficiency, high reliability
- Low ripple noise
- Over load, over voltage, short circuit protection
- 100% 50°C burn-in test
- UL, CSA, TUV, CE approved



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPP-G061	5V	6A	66W	50mV	74%
	12V	2.5A		120mV	
	-12V	0.5A		120mV	
SPP-G062	5V	6A	67.2W	50mV	72%
	12V	3A		120mV	
	-5V	0.5A		100mV	

SPP-G Quad Series - 60~70W Quad Output Open Frame Power Supply



Features

- Light weight, compact size
- High efficiency, high reliability
- Low ripple noise
- Over load, over voltage, short circuit protection
- 100% 50°C burn-in test
- UL, CSA, CE approved



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPP-G060	5V	6A	70W	50mV	72%
	12V	2.5A		120mV	
	-12V	0.5A		120mV	
	-5V	0.5A		100mV	

LPS-75 Series - 75W Single Output Open Frame Power Supply

Applications

- Display lighting
- Decorative lighting



Features

- Universal AC input / Full range
- Short circuit, over load, over voltage protections
- Cooling by free air convection
- PWM control and regulated
- Small and compact size
- Built-in remote ON-OFF control
- LED indicator for power on
- 100% full load burn-in test



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
LPS-75-3-3	3.3V	15A	50W	80mV	69%
LPS-75-5	5V	15A	75W	80mV	77%
LPS-75-12	12V	6.2A	74.4W	100mV	80%
LPS-75-15	15V	5A	75W	100mV	81%
LPS-75-24	24V	3.2A	77W	120mV	83%
LPS-75-48	48V	2A	75W	120mV	83%

Description

LPS-75 Series is a range of 75W open frame convection cooled power supplies, available in 3.3V, 5V, 12V, 15V, 24V & 48V output voltages. Designed with -20 ~ +60°C wide range operating temperatures and featuring built in remote on/off control, PWM control and short circuit, over load and over voltage protections this is a very flexible open frame power supply.

ELP-75 Series - 75W Single Output Open Frame Power Supply with PFC function



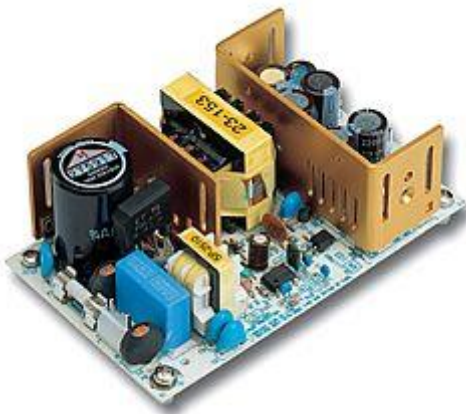
Features

- Universal AC input/full range
- Built-in active PFC function, PF>0.95
- High efficiency up to 90%
- Optional L-bracket and cover (ELP-75-x-c, x=3.3.5.12.15.24.36.48)
- Protections: Short circuit/Overload? Over voltage
- Cooling by free air convection
- 1U low profile
- LED indicator for power on
- No load power consumption<0.5W



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
ELP-75-3-3	3.3V	15A	50W	80mV	80%
ELP-75-5	5V	15A	75W	80mV	82%
ELP-75-12	12V	6.25A	75W	120mV	89%
ELP-75-15	15V	5A	75W	150mV	90%
ELP-75-24	24V	3.15A	76W	240mV	90%
ELP-75-36	36V	2.1A	76W	280mV	90%
ELP-75-48	48V	2A	77W	300mV	90%

SPP-075-D Series - 75W Dual Output AC-DC PC Open Frame Power Supply



Features

- Light weight, compact size
- High efficiency, high reliability
- Built-in EMI filter, low ripple noise
- Over load, over voltage, short circuit protection
- Fit out with "NIPPON CHEMI-CON" high reliability Aluminium Electrolytic Capacitors or equally
- 100% 50°C burn-in test.
- Meet EMI EN55022, EMS EN55024, LVD standard
- Meet UL / cUL / TUV/ CE standard



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPP-075-D1	5V	4A	75W	50mV	73%
	12V	5A		120mV	
SPP-075-D2	5V	4A	75W	50mV	73%
	24V	2.5A		240mV	
SPP-075-D3	12V	6A	75W	120mV	73%
	5V	3A		70mV	
SPP-075-D4	24V	3A	75W	200mV	73%
	5V	3A		70mV	

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SPL-075-D1 - 75W L Bracket Dual Output AC-DC Open Frame PSU

Applications

LCD Panels



Features

- Light weight, compact size
- 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



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPL-075-D1	5V	12A	75W	50mV	72%
	12V	2A		100mV	

SPP-075-T Series - 75W Triple Output AC-DC PC Open Frame Power Supply



Features

- Light weight, compact size
- High efficiency, high reliability
- Built-in EMI filter, low ripple noise
- Over load, over voltage protection
- Short circuit protection and Auto recovery
- 100% 50°C burn-in test.
- Meet EMI EN55022、 EMS EN55024 standard
- UL / cUL / TUV/ CB / CE approved



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPP-075-T1	5V	7A	75W	50mV	75%
	12V	3.2A		120mV	
	-5V	1A		100mV	
SPP-075-T2	5V	7A	75W	50mV	75%
	12V	3.2A		120mV	
	-12V	1A		150mV	
SPP-075-T3	5V	7A	75W	50mV	75%
	15V	3.2A		150mV	
	-15V	1A		200mV	
SPP-075-T4	5V	7A	75W	50mV	77%

	12V	3.2A		120mV	
	-12V	2A		240mV	

SPL-075-Q1 - 75W L Bracket Quad Output AC-DC Open Frame PSU



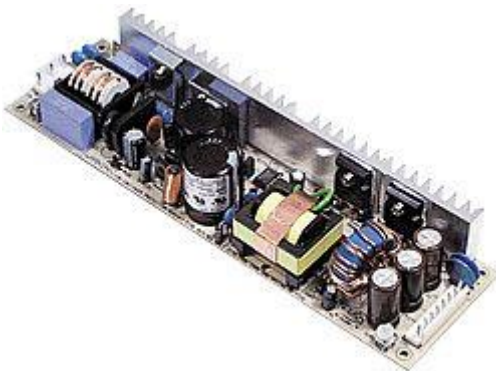
Features

- Over load, over voltage & over temperature protection
- High efficiency, high reliability
- Built-in EMI filter, low ripple noise
- Over load, over voltage, short circle shutdown protection
- 100% 50°C burn-in test
- UL, cUL, TUV, CB, CE approved



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPL-075-Q1	-5V	8A	75W	50mV	73%
	5V	2.5A		100mV	
	12V	0.5A		200mV	
	-12V	0.5A		100mV	

LPS-100 Series - 100W Single Output Open Frame Power Supply



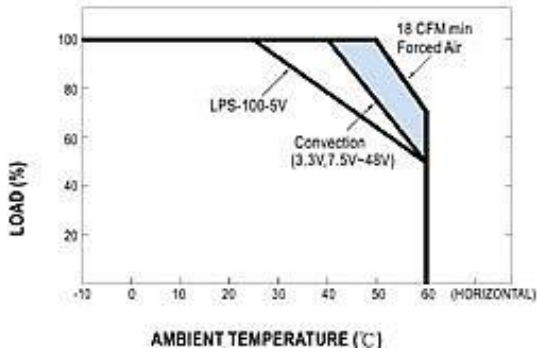
Features

- Universal AC input or auto switch
- Short circuit protection
- High efficiency, low working temp.
- Over load/ voltage protection
- 100% full load burn-in test
- Built in EMI filter, low ripple noise

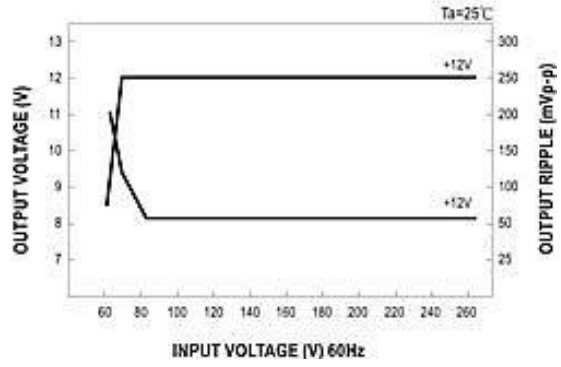


Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
LPS-100-3-3	3.3V	20A	66W	150mV	69%
LPS-100-5	5V	20A	100W	100mV	77%
LPS-100-7-5	8V	13.3A	100W	100mV	77%
LPS-100-12	12V	8.4A	101W	100mV	79%
LPS-100-13-5	14V	8A	101.25W	100mV	79%
LPS-100-15	15V	7A	100.5W	150mV	80%
LPS-100-24	24V	4.2A	101W	150mV	80%
LPS-100-27	27V	4A	103W	150mV	81%
LPS-100-48	48V	2.1A	101W	200mV	81%

Output Derating



Static Characteristics (12V)



PQ-100 Series - 100W Quad Output Open Frame Switch Mode Power Supply



Features

- Universal AC input range
- Short circuit, over voltage, over load protections
- Built in EMI filter, low ripple noise
- Cooling by free air convection
- 100% full load burn-in test
- Fixed switching frequency at 45KHz
- UL, cUL, TUV, CE, CB approvals



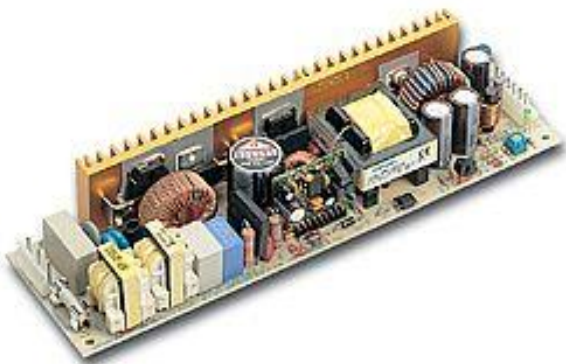
Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
PQ-100B	5V	10A	100.5W	80mV	72%
	12V	4A		250mV	
	-5V	0.5A		80mV	
	-12V	0.5A		120mV	
PQ-100C	5V	8A	102.5W	80mV	74%
	15V	4A		150mV	
	-5V	0.5A		80mV	
	-15V	0.5A		150mV	
PQ-100D	5V	5A	103W	80mV	77%

	12V	2A		120mV	
	24V	2A		180mV	
	-12V	0.5A		120mV	
PQ-100E	5V	8A	99.4W	80mV	74%
	12V	3A		120mV	
	15V	1A		150mV	
	24V	1A		120mV	

Description

PQ-100 Series are a range of 100W quad output open frame power supplies offering universal input range and Short circuit, over voltage & over load protections. UL60950-1, TUV EN60950-1 approved.

SPP-100P Series - 100W Single Output AC-DC Open Frame Power Supply



Features

- Universal AC input with active power factor correction, P.F.>0.95
- Over load, over voltage & short circuit protection
- Built-in EMI filter, low ripple noise
- Output voltage $\pm 10\%$ adjustment
- 100% 50°C burn-in test
- Meet UL, cUL, TUV standard



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPP-100P-3-3	3.3V	25A	83W	50mV	68%
SPP-100P-05	5V	20A	100W	50mV	76%
SPP-100P-7-5	8V	13.4A	100W	80mV	78%
SPP-100P-12	12V	8.5A	100W	120mV	79%
SPP-100P-15	15V	7A	100W	150mV	80%
SPP-100P-24	24V	4.2A	100W	240mV	80%
SPP-100P-28	28V	4A	100W	280mV	81%
SPP-100P-48	48V	2.1A	100W	300mV	81%

EPP-100 Series - 100W Single Output Open Frame Power Supply with PFC Function

Applications

Electrical or mechanical equipment
Factory automation
Applications requiring "No low power consumption"



Features

4" x 2" compact size
Universal AC input/Full range
Built-in active PFC function
High efficiency up to 92.5%
Protections: Short circuit/Overload/Over voltage/Over temperature
75W free air convection, 100W with 20CFM forced air
LED indicator for power on
No load power consumption <0.5W
Built-in 12V/0.3A auxiliary output
Units sold without DC fan, please view PDF for output data without DC fan.



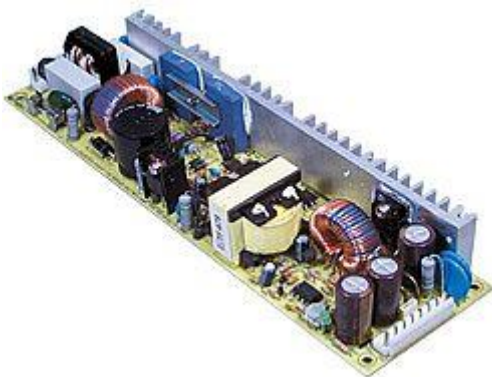
Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
EPP-100-12	12V	8.5A	102W	120mV	91%

EPP-100-15	15V	6.67A	100.05W	150mV	91%
EPP-100-24	24V	4.2A	100.8W	240mV	92%
EPP-100-27	27V	3.71A	100.17W	240mV	92.5%
EPP-100-48	48V	2.1A	100.8W	300mV	92.5%

Description

The EPP-100 series is a 100W single output open frame power supply with PFC function. With a small compact size and high efficiency up to 92.5% the series offer an extremely low "no load power consumption". Standard functions include cooling by free air convection or cooling with 20CFM DC external fan, 12V/0.3A auxiliary output and LED indicator for power on. The series also have protections for short circuit, overload, over voltage and over temperature.

LPP-100 Series - 100W Single Output PFC Function Open Frame PSU



Features

- Universal AC input
- Built-in active PFC function
- Short circuit, over load, over voltage protections
- Cooling by free air convection
- 100% full load burn-in test
- Fixed switching frequency at PFC:67KHz PWM:134KHz



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
LPP-100-3-3	3.3V	20A	66W	100mV	69%
LPP-100-5	5V	20A	100W	100mV	75%
LPP-100-7-5	8V	14A	101.25W	100mV	76%
LPP-100-12	12V	8.5A	102W	100mV	79%
LPP-100-13-5	14V	8A	101.25W	100mV	79%
LPP-100-15	15V	7A	100.5W	100mV	80%
LPP-100-24	24V	4.2A	101W	150mV	83%
LPP-100-27	27V	4A	103W	150mV	83%

LPP-100-48	48V	2.1A	101W	250mV	83%
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PSC-100 Series - 100W AC/DC Single Output Open Frame 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
- 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
- 5"x3" compact size



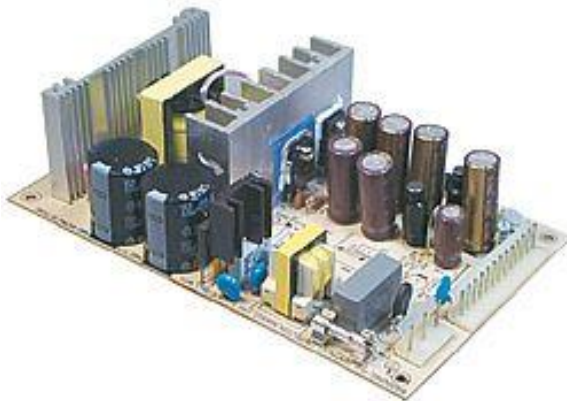
Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
PSC-100A	13.8V	4.75A	100.05W	100mV	86%

	13.8V	2.5A			
PSC-100B	27.6V	2.4A	100.74W	100mV	88%
	27.6V	1.25A			

Description

PSC-100 Series is a 100W AC/DC PCB type open frame 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-100 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.

PD-110 Series - 100W Dual Output Open Frame Power Supply



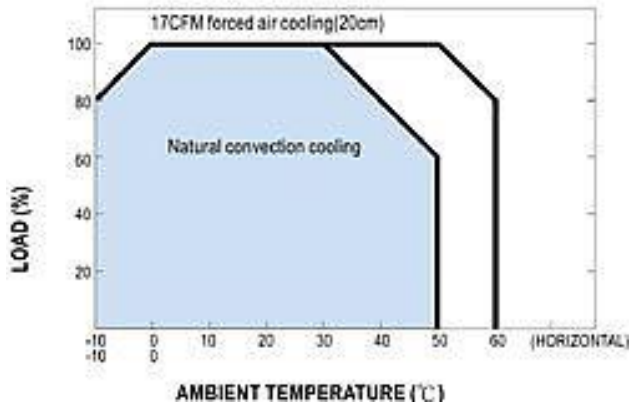
Features

- High reliability
- 105°C Output capacitor
- International AC Input range
- High efficiency, low working temperature
- Soft start circuit, limiting AC surge current
- Short circuit, overload, over voltage protected
- Compact size, light
- 100% Full load burn-in test
- Built in EMI filter, low ripple noise
- Power good (option)

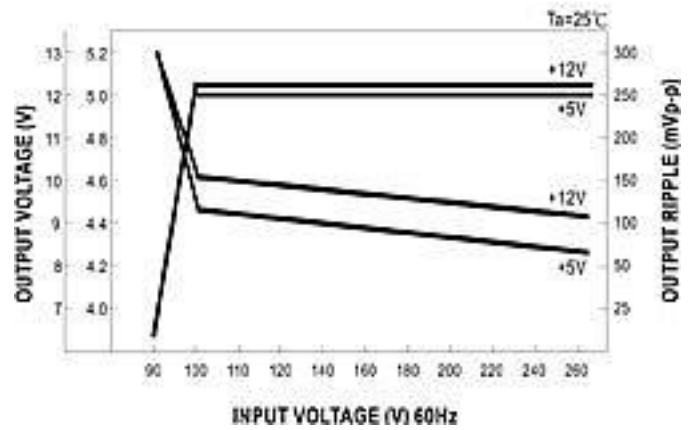


Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
PD-110A	5V	5A	103W	100mV	75%
	12V	6.5A	103W	150mV	75%
PD-110B	5V	5A	109W	100mV	78%
	24V	4A	109W	200mV	78%

Output Derating



Static Characteristics (A)



PPQ-100 Series - 100W Quad Output With PFC Power Supply



Features

- PFC 0.98@115VAC; 0.95@230VAC
- High efficiency, low working temp
- Short circuit/ over voltage/overload protection
- 100% full load burn-in test
- Built in EMI filter,
- Low ripple noise
- Wide range AC input



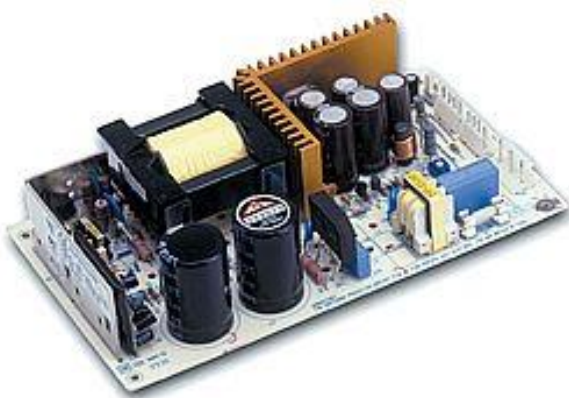
Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
PPQ-1003A	3.3V	10A	108.5W	100mV	72%
	5V	10A		150mV	
	12V	2A		100mV	
	-5V	0.3A		100mV	
PPQ-1003B	3.3V	10A	111W	100mV	72%
	5V	10A		100mV	
	12V	2A		150mV	

	-12V	0.3A		120mV	
PPQ-1003C	3.3V	10A	110W	100mV	72%
	5V	10A		100mV	
	15V	2A		180mV	
	-15V	0.3A		150mV	
PPQ-1003D	3.3V	10A	114.2W	100mV	72%
	5V	10A		100mV	
	12V	2A		150mV	
	24V	0.3A		150mV	
PPQ-100B	5V	10A	101W	100mV	75%
	12V	3.4A		150mV	
	-12V	1A		100mV	
	-5V	1A		100mV	
PPQ-100C	5V	10A	101W	100mV	76%
	15V	3A		150mV	
	-15V	1A		100mV	
	-5V	1A		100mV	
PPQ-100D	5V	8A	102.4W	100mV	78%
	24V	2A		200mV	
	12V	1A		100mV	
	-12V	1A		100mV	

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SPP-110-D1 - 110W Dual Output AC-DC Open Frame Power Supply



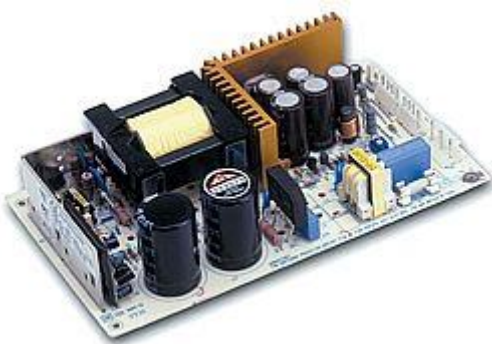
Features

- Over load, over voltage, short circuit protection
- Built-in EMI filter, low ripple noise
- Fit out with "NIPPON CHEMI-CON" high reliability Aluminium Electrolytic Capacitors or equally
- 100% 50°C burn-in test.
- Safety standard:UL60950 CSA C22.2 No 950 TUV EN 60950
- EMC standard: EN55022 Class B
- MOQ of 200 Pcs



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPP-110-D1	12V	9A	110W	100mV	73%
	5V	5A		50mV	

SPP-110-Q1 - 110W Quad Output AC-DC Open Frame Power Supply



Features

- Over load, over voltage, short circuit protection
- Built-in EMI filter, low ripple noise
- Fit out with "NIPPON CHEMI-CON" high reliability Aluminium Electrolytic Capacitors or equally
- 100% 50°C burn-in test.
- Meet: UL60950 CSA C22.2 No 950 TUV EN 60950
- EMC standard: EN 55022 Class B
- MOQ of 200 Pcs



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPP-110-Q1	5V	15A	110W	50mV	73%
	12V	4A		120mV	
	-5V	1A		70mV	
	-12V	1A		130mV	

PS-120 P Series - 120W Single Output Open Frame Power Supply



Features

- AC input range selected by switch
- Built-in passive PFC option
- AC ON-OFF switch
- 3 pole AC inlet with fuse holder
- Short circuit, over load, over voltage, over temperature protections
- 2 colour LED loading indicator
- Cased option available



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
PS-120P-13P	14V	7.2A	99.36W	150mV	77%
PS-120P-27P	28V	4.3A	119W	200mV	81%
PS-120P-54P	54V	2.2A	119W	250mV	82%

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PPS-125 Series - 125W Single Output PFC Function Open Frame Power



Features

- Universal AC input
- Built-in active PFC function
- Short circuit, over load, over voltage protections
- PWM control and regulated
- High power density 6.117W/inch³
- Built-in remote sense function
- LED indicator for power on
- 100% full load burn-in test
- 125W with 18CFM FAN
- 5"x3" compact size



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
PPS-125-3-3	3.3V	20A	66W	100mV	70%

PPS-125-5	5V	20A	100W	100mV	79%
PPS-125-12	12V	8.5A	102W	100mV	80%
PPS-125-13-5	14V	8A	101.25W	100mV	80%
PPS-125-15	15V	7A	100.5W	100mV	80%
PPS-125-24	24V	4.2A	101W	150mV	83%
PPS-125-27	27V	4A	103W	150mV	83%
PPS-125-48	48V	2.1A	101W	250mV	84%

PPT-125 Series - 125W Triple Output PFC Function Open Frame Power S



Features

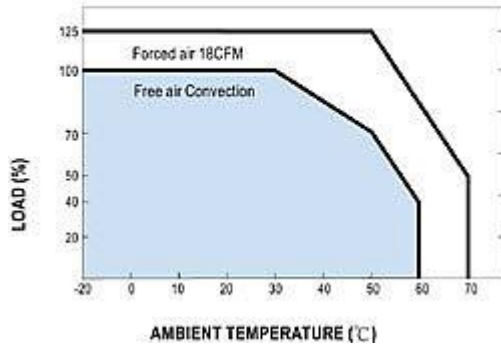
- Universal AC input / Full range
- Built-in active PFC function
- Protections: Short circuit/Over load/Over voltage
- PWM control and regulated
- High power density 6.117W/inch
- Built-in remote sense function
- LED indicator for power on
- 100% full load burn-in test
- 125W with 18CFM forced air



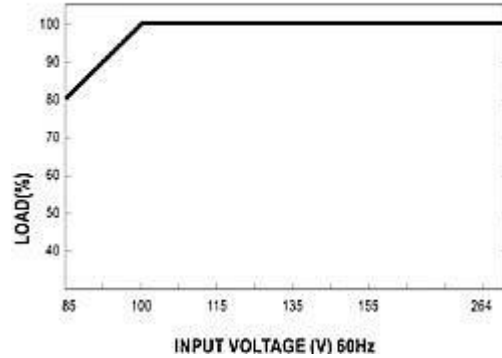
Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
PPT-125A	3.3V	10A	79W	100mV	75%

	5V	8A		100mV	
	12V	0.5A		120mV	
PPT-125B	5V	12A	100W	100mV	78%
	12V	3A		120mV	
	-12V	0.5A		120mV	
PPT-125C	5V	11A	100W	100mV	78%
	15V	2.5A		150mV	
	-15V	0.5A		150mV	
PPT-125D	5V	7A	101W	100mV	78%
	24V	2.5A		240mV	
	12V	0.5A		120mV	

Derating Curve



Output Derating VS Input Voltage



ASP-150 Series - 150W Single Output PFC Open Frame PSU

Applications

Industrial equipment



Features

- Universal AC input/Full range
- Built-in active PFC function, PF>0.95
- Short circuit, over load, over voltage & over temperature protections
- Cooling by free air convection
- ZCS/ZVS technology to reduce power dissipation
- High power density 8.5W/in³
- No load power consumption <1W at 240VAC
- 100% full burn in test
- cUL, CB & CE Approvals



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
ASP-150-12	12V	11A	132W	150mV	88%
ASP-150-15	15V	10A	142.5W	180mV	88%
ASP-150-20	20V	8A	150W	200mV	90%
ASP-150-24	24V	6.3A	151.2W	240mV	90%
ASP-150-48	48V	3.2A	154W	240mV	89%

Description

ASP-150 is a 150W open frame type switching power supply (mainly AS-120P removed from the plastic case) and a new addition to our AC/DC product line. Featuring low no load power consumption and built-in active PFC function the units has been designed based onto the energy saving concern that is critical to consumer electronic applications. Thanks to the leading edge ZCS/ZVS technology the efficiency is as high as 90% and hence can provide 150W by only free air convection. ASP-150 mainly targets general industrial applications with space constraints as its 28.5mm low profile will fit perfectly in any 1U equipment.

SNP-G12 Series - 150W Single Output AC-DC Open Frame Power Supply



Features

- 2"x4" Footprint
- High efficiency up to 91%
- High power density up to 11W/in³
- ITE & Medical models available
- Built-in Active PFC
- Green power



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SNP-G127	12V	10A	150W	120mV	90%
SNP-G128	15V	8A	150W	100mV	90%

SNP-G125	18V	6.6A	150W	150mV	90%
SNP-G129	24V	5A	150W	150mV	90%
SNP-G12J	36V	3.3A	150W	200mV	91%
SNP-G12T	48V	2.5A	150W	250mV	91%

EPP-150 Series - 150W Single Output Open Frame Power Supply with PFC Function

Applications

Electrical or mechanical equipment
 Factory automation
 Applications requiring low "No load power consumption"

Features

4" x 2" Compact Size
 Universal AC input/Full range
 Built-in active PFC function
 High efficiency up to 93%
 Protections: Short circuit/Overload/Over voltage/Over temperature
 100W free air convection, 150W with 20CFM forced air
 LED indicator for power on
 No load power consumption <0.5W
 Built-in 12V/0.3A auxiliary output
 Units sold without DC fan, please view PDF for output data

without DC fan.



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
EPP-150-12	12V	12.5A	150W	130mV	91.5%
EPP-150-15	15V	10A	150W	150mV	92%
EPP-150-24	24V	6.25A	150W	240mV	93%
EPP-150-27	27V	5.56A	150.12W	240mV	92%
EPP-150-48	48V	3.125A	150W	300mV	92%

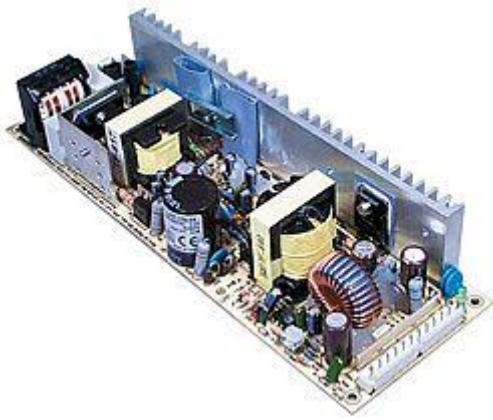
Description

The EPP-150 series is a 150W single output open frame power supply with PFC function. Standard functions including high efficiency up to 93%, 4" x 2" compact size, LED indicator for power on and built in 12V/0.3A auxiliary output. The series also offer short circuit, overload, over voltage and over temperature protections.

LPP-150 Series - 150W Single Output PFC Function Open Frame Power Supply

Features

- Universal AC input or auto switch
- Short circuit protection
- High efficiency, low working temp.
- Over load, over voltage & over temperature protections
- Cooling by free air convection



100% full load burn-in test
 Built in Active PFC function, PF>0.96



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
LPP-150-3-3	3.3V	30A	99W	100mV	66%
LPP-150-5	5V	30A	150W	100mV	72%
LPP-150-7-5	8V	20A	150W	100mV	76%
LPP-150-12	12V	12.5A	150W	100mV	79%
LPP-150-13-5	14V	11.2A	151.2W	100mV	80%
LPP-150-15	15V	10A	150W	100mV	80%
LPP-150-24	24V	6.3A	150W	150mV	83%
LPP-150-27	27V	6A	151.2W	150mV	83%
LPP-150-48	48V	3.2A	154W	250mV	83%



Features

Active PFC

No load power consumption <0.5W

High efficiency up to 90%

Operating temperature range of -20°C to +70°C

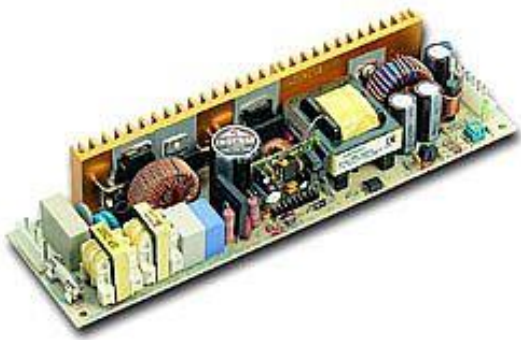
Meets Energy Star Version 2.0

Meets ITE & Medical Safety Requirements

Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SNP-X127	12V	10A	120W	120mV	87%
SNP-X128	15V	8A	120W	120mV	87%
SNP-X125	18V	7A	120W	150mV	87%
SNP-X129	24V	5A	120W	200mV	87%
SNP-X12T	48V	2.5A	120W	200mV	87%
SNP-X12H	60V	2.2A	120W	500mV	87%

Description

SNP-X12 Series are open frame power supply designed for both medical and ITE applications. Featuring no load power consumption <0.5W, PF >0.9 and an average efficiency of 85% these open frame power supplies comply with worldwide green power requirements. Available output voltages include 12V, 15V, 18V, 24V, 48V & 60V.



Features

- Universal AC input with active power factor correction, P.F.>0.95
- Over load, over voltage & short circuit protection
- Built-in EMI filter, low ripple noise
- Output voltage $\pm 10\%$ adjustment
- 100% 50°C burn-in test
- Meet UL, cUL, TUV standard



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
SPP-150P-3-3	3.3V	30A	100W	50mV	69%
SPP-150P-05	5V	30A	100W	70mV	75%
SPP-150P-7-5	8V	20A	150W	90mV	77%
SPP-150P-12	12V	12.5A	150W	100mV	80%
SPP-150P-15	15V	10A	150W	100mV	80%
SPP-150P-24	24V	6.3A	150W	100mV	83%
SPP-150P-27	27V	6A	150W	100mV	84%
SPP-150P-48	48V	3.2A	150W	150mV	84%



Features

- Universal AC input
- Built-in active PFC function
- Short circuit, over load, over voltage, over temperature protections
- 5"x3" compact size
- Free air convection for 110W and 160W with 20.5 CFM forced air
- With power good and fail signal output
- Built-in remote sense function for 5~15V
- No load power consumption under 0.75W by PS-ON control
- Standby 5V@1A with Fan/0.6A without Fan
- Approval: UL / CUL / TUV / CE / CB



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
RPS-160-12	12V	13A	112.2W	100mV	87%

Specifications

- Input Voltage 90 ~ 264Vac 127 ~ 370Vdc
- Input Frequency 47 ~ 63Hz
- Power Factor PF>0.93/230Vac PF>0.98/115Vac at full load
- Input Current 2A/115Vac 1.1A/230Vac
- Inrush Current 35A/115Vac 70A/230Vac, cold start
- Leakage Current Earth leakage current <300uA/ 264Vac, Patient leakage current <100uA/264Vac
- Line Regulation ±0.5%
- Load Regulation ±1.0%
- Set Up, Rise Time 1200ms, 30ms/230Vac 2500ms, 30ms/115Vac at full load
- Hold Up Time 16ms/230Vac/115Vac at full load
- Over Load Protection 105 ~ 135% rated output power
Hiccup mode, recovers automatically after fault condition is removed

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



Features

- 90-264VAC Universal AC input
- 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



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
PSC-160A	13.8V	7.6A	160W	150mV	88%
	13.8V	4A			
PSC-160B	27.6V	3.8A	160W	240mV	90%
	27.6V	2A			

Description

PSC-160 Series is a 160W AC/DC PCB type security power supply with 6 x3 footprints, allowing a universal input range between 90VAS and 264VAC and incorporating 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 Series 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.



Features

- Universal AC input
- Built-in active PFC function
- Short circuit, over load, over voltage, over temperature protections
- 5"x3" compact size
- Free air convection for 100W and 150W with 20.5 CFM forced air
- With power good and fail signal output
- No load power consumption under 0.75W by PS-ON control (Optional)
- Standby 5V@0.8A with Fan/0.6A without Fan (Optional)
- Approval: UL / CUL / TUV / CE / CB



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
RPD-160B	5V	12A	160W	80mV	84%
	24V	4A		200mV	

Specifications

Input Voltage	90 ~ 264Vac 127 ~ 370Vdc
Input Frequency	47 ~ 63Hz
Power Factor	PF>0.93/230Vac PF>0.98/115Vac at full load
Efficiency	84%
Input Current	1.7A/115Vac 0.9A/230Vac
Inrush Current	35A/115Vac 70A/230Vac, cold start
Leakage Current	Earth leakage current <300uA/ 264Vac, Patient leakage current <100uA/264Vac
Rated Power (Convection)	100.2W
Rated Power (20.5CFM)	150.4W
Set Up, Rise Time	1200ms, 30ms/230Vac 2500ms, 30ms/115Vac at full load
Hold Up Time	16ms/230Vac/115Vac at full load
Over Load Protection	105 ~ 135% rated output power Hiccup mode, recovers automatically after fault condition is removed

Medical applications
IT applications



Features

Universal AC input
Built-in active PFC function
Short circuit, over load, over voltage, over temperature protections
5"x3" compact size
Free air convection for 100W and 145W with 20.5 CFM forced air
With power good and fail signal output
Built-in remote sense function for 5~15V
No load power consumption under 0.75W by PS-ON control
Standby 5V@0.8A with Fan/0.6A without Fan
Approval: UL / CUL / TUV / CE / CB



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
RPTG-160-A	5V	14A	99W	100mV	84%
	12V	6A		120mV	
	-5V	1A		120mV	
RPTG-160-B	5V	14A	98.4W	100mV	84%
	12V	5A		120mV	
	-12V	1A		120mV	
RPTG-160-C	5V	14A	99W	100mV	83%
	15V	4A		150mV	
	-15V	1A		150mV	
RPTG-160-D	5V	11A	98.2W	100mV	83%
	12V	5A		120mV	
	24V	1.2A		200mV	

Description

RPTG-160 Series is a green triple output power supply that can fulfil the requirements of general medical or industrial applications, with additional PS-ON control, 5V/0.8A standby output and 0.75W of no-load-power-consumption it can be implemented into all kinds of end systems

General electronics
 Factory automation
 Telecommunications
 Networking
 Test & measurement



Features

- Universal AC input/full range
- High power 9.78W/in³
- ZVS technology to reduce power dissipation
- Built-in active PFC circuit
- Short circuit, over load, over voltage protection
- Free air convection for 150W and 200W with 20.5CFM forced air
- Built-in remote sense function
- Compact size 127 x 76.2 x 34.6mm



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
PPS-200-5	5V	36A	130W	100mV	86%
PPS-200-12	12V	17A	150W	100mV	89%
PPS-200-15	15V	13.3A	150W	100mV	89%
PPS-200-24	24V	8.3A	150W	150mV	89%
PPS-200-27	27V	7.4A	150W	150mV	89%
PPS-200-48	48V	4.167A	150W	250mV	90%

Description

How many watts can you imagine squeeze from a 5" x 3" x 1U dimension? 80W, 120W, 150W? The new PPS-200 Series - 200W open frame type switching power supply with power factor correction function that achieves the 200W milestone in the most popular dimension for PCB power supplies. Thanks to the soft switching and synchronous rectification all of the PPS-200 models possess high efficiency characteristics that have improved up to 6% compared to traditional topologies and hence it can supply 150W using merely free air convection and 200W by forced air. With 9.78W/in³ of high power density PPS-200 is a compact 90-260V switcher that is ideal for 1U installations.

Motor based machinery
Automation
Test equipment
POS systems
Franking Machines
Banking Machines



Features

Universal AC input, full range
Isolated output & GND for CH1, CH2
Built-In active PFC function, >0.93
Short circuit, over load, over voltage & over temperature protections
Cooling by free air convection
Remote control function for CH1
Peak load 170% for 10 sec. (CH1)
Optional case available



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
PID-250A	12V	5A	205W	120mV	84%
	5V			50mV	
PID-250B	24V	5A	251W	150mV	87%
	5V			50mV	
PID-250C	36V	5A	252W	200mV	87%
	5V			50mV	
PID-250D	48V	5A	251W	200mV	87%
	5V			50mV	

General industrial electric instruments
 IT systems
 Industrial machinery
 Electrical equipment



Features

- Universal AC input/Full range
- Built-in active PFC function
- Withstand 300VAC surge input for 5 seconds
- Protections: Short circuit/Overload/Over voltage/Over temperature
- Built-in 12V/0.5A auxiliary output
- 5"x3" compact size
- Free air convection for 200W and 300W with 20.5CFM forced air
- With power good and power fail signal output
- Built-in remote sense function
- No load power consumption under 0.5W by PS-ON control
- Standby 5V@1A with fan @ 0.6A without fan



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
EPP-300-12	12V	25A	300W	120mV	90%
EPP-300-15	15V	20A	300W	120mV	90%
EPP-300-24	24V	12.5A	300W	150mV	92.5%
EPP-300-27	27V	11.12A	300.24W	200mV	93%
EPP-300-48	48V	6.25A	300W	250mV	93%

Description

The EPP-300 series is a 300W single output open frame power supply with PFC function. With a high power density of 14.5W/in³ and standard functions including built-in active PFC function, 300VAC input surge immunity for 5 seconds, built-in remote sense and 12V/0.5A auxiliary output. The EPP-300 series has protections for short circuit, overload, over voltage and over temperature.

Medical equipment requiring low leakage current
 "Patient contact" equipment



Features

- Universal AC input/Full range
- Built-in active PFC function
- Withstand 300VAC surge input for 5 seconds
- Protections: Short circuit/Overload/Over voltage/Over temperature
- Built-in 12V/0.5A auxiliary output
- 5" x 3" compact size
- Free air convection for 200W and 300W with 20.5CFM forced air
- With power good and fail signal output
- Built-in remote sense function
- No load power consumption under 0.5W by PS-ON control
- Standby 5V@1A with fan @ 0.6A without fan



Part Number	Voltage	Current (amps)	Power (watts)	R&N (mV)	Efficiency (%)
RPS-300-12	12V	25A	300W	120mV	90%
RPS-300-15	15V	20A	300W	120mV	90%
RPS-300-24	24V	12.5A	300W	150mV	92.5%
RPS-300-27	27V	11.12A	300.24W	200mV	93%
RPS-300-48	48V	6.25A	300W	250mV	93%

Description

The RPS-300 Series are a 300W Single output medical type open frame power supply. With standard functions including built-in 12V/0.5A auxiliary output, power good and fail signal output, built-in remote sense function and built-in active PFC function. The RPS-300 has protections including short circuit, overload, over voltage and over temperature. Designed to comply with international medical safety regulations, the RPS-300 series is suitable for "patient contact" equipment requiring low leakage current.



Features

- Continuous 300/430W peak 500W high power
- Ultra high efficiency
- Low power consumption at standby mode
- Suitable for parallel operation
- Output ON/OFF control function
- Output voltage remote sensing function
- Low noise & leakage current



Part Number	Voltage	Current (amps)	Power (watts)
MOZP-350-12-JST	12V	25A	350.4W
MOZP-350-24-JST	24V	14.6A	350.4W
MOZP-350-36-JST	36V	9.8A	352.8W
MOZP-350-48-JST	48V	7.3A	350.4W

Description

The Mozp-350 series are a medically approved (MOPP) PCB type power supply, suitable for patient contact medical equipment. Offering an extremely high efficiency solution with low noise and leakage current.

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