

SPS-9620 Series

High Current Switched Mode DC Regulated Power Supply



Description

The SPS-9620 DC power supply has been designed for professional applications which require quality high current for equipment such as super power car audio that normally operates from a 12 volt battery. The output is current limited at just over 120A and this current output can be supplied continuously.

The output voltage has Over Voltage Protection at about 17V to ensure very high protection against power supply failure, thus offering full protection to the powered equipment.

The excellent load regulation is further enhanced with remote sensing terminals to give precise voltage at the point of application for long connecting leads.

The output voltage range can be easily fine-tuned between 12.6V to 14.3V via a concealed trimmer. This covers most 12V battery sources such as six lead-acid cells (13.8V) or ten nickel-cadmium cells (12.6V) etc.

The excellent Dynamic Power Factor Correction (>0.95) reduces unnecessary power loss (cuts electricity cost in some countries) and cuts the noise and EMI to your power mains.

Features

- Output Over Voltage Protection at 16.5V Trimmer fine tune output voltage 12.6V to 14.3V for 13.8V nominal
- Constant Current Limiting, Over Load, Short Circuit and Over Temperature Protection
- Green LED for power on/off indication
- Red LED for overload indication
- Excellent line and load regulation
- Remote sensing terminals for precise voltage at the load
- Low ripple and noise
- Cooling fan is operating continuously with the speed of the fan increasing with temperature
- High efficiency 85%
- CE Approval : EN55022 IEC60950, EN60950
- High RFI Stability
- Floating Ground / Isolated Output

Specifications

Model	SPS-9620
Output Voltage	Fixed 13.8VDC (pot adjustable 12.6~14.3VDC)
Rated Output Current	120A
Ripple & Noise (peak-peak)	40mVp-p
Load Regulation with Sense (0~100% load)	0.1% + 5mV
Load Regulation with no Sense (0~100% load)	0.1% + 5mV
Line Regulation (190~254VAC variation)	0.05% + 3mV
Input Voltage	200~240VAC 50Hz
Efficiency	>85%
Active Power Factor Correction (PFC)	>0.97 at optimal load
Indicator	Green LED: Power ON/OFF Red LED: Overload/Short Circuit
Special Features	Remote Sensing
Cooling System	Variable speed thermally static control fan (from 1/3 to full speed)
Operating Temperature	0°C ~ 40°C
Protection Devices	Overload (Constant Current Limiting), Over Temp., Short Circuit, OVP
Approvals	CE EMC: EN55022 LVD: EN60950
Dimensions (WxHxD)	235x218x345mm 9.6x8.6x13.6in
Weight	11kg 24lb

- All values are based on the Standard ambient Temperature 25°C and Pressure 0.1Mpa.
- SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE