

GENERAL PURPOSE POWER SUPPLY
SPS - 9402
High Current Switching Mode Power Supply



Description

The series of HIGH POWER SWITCHING MODE DC REGULATED POWER SUPPLIES provide high current 20 Amps output in a lightweight and compact size case. They are suitable for a wide range of uses, such as radio equipment, and are ideal for high power car stereo work. In addition to variable output from 3 to 30VDC, a fixed 13.8VDC can be selected. Overload, Over temperature, and Over voltage protection are standard.

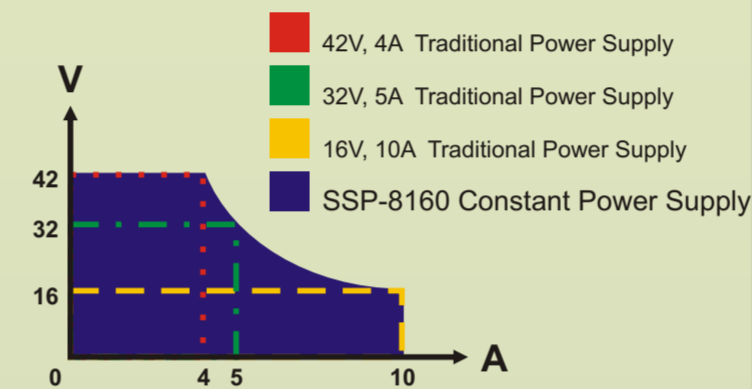
Specifications

Models	SPS-9402
Variable Output Voltage	3 - 30VDC
Fixed Output Voltage Mode	13.8VDC
Rated Output Current	20A
Ripple & Noise (r.m.s.)	≤5mV
Load Regulation (0-100% load)	≤230mV
Line Regulation (190-254VAC variation)	≤5mV
Input Voltage	200-240VAC 50Hz~ (or on request)
Efficiency	≥81%
Meter Type	LED Meter
Volt. Meter Range	3 digit Display
Curr. Meter Range	3 digit Display
Meter's Accuracy	1% +2 counts
Cooling System	Variable speed thermally control fan (from 1/3 to full speed)
Protection Devices	Over Temperature, Short Circuit, Over Voltage
Approvals	CE EMC: EN 55011, 55022 LVD: EN 60950, 61558
Dimensions (WxHxD)	220x110x300mm 8.7x4.3x11.8inch
Weight	2.5kgs 7.7lbs
Remarks	Power factor correction >0.97 at optimal load

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



REMOTE PROGRAMMING LABORATORY GRADE POWER SUPPLY
160W Constant Power (Auto-Range) Switching Mode Power Supply
SSP - 8160 / 8162



Specifications

Models	SSP - 8160	SSP - 8162
Input Voltage Range	100 - 240VAC	
No Load Input Current at 230VAC / 100VAC	≤0.25A	
Full Load Input Current at 230VAC / 100VAC	≤1.0A / ≤2.3A	
AC Input Frequency	45 - 65Hz~	
Efficiency (230VAC / 100VAC)	≥85/83% @ 42V / 3.8A	≥86/84% @ 84V / 1.9A
Power Factor	≥0.9	
OUTPUT:		
Variable Output Voltage	0 - 42V	0 - 84V
Variable Output Current	0 - 10A	0 - 5A
Output Rated Power	160W	
Constant Voltage Characteristics:		
Load Regulation (10 - 100% rated current)	≤80mV	≤40mV
Line Regulation (90 - 264Vac)	≤10mV	≤10mV
Ripple & Noise (peak-peak)	≤80mVp-p	
Ripple & Noise (r.m.s.)	≤8mV	
Constant Current Characteristics:		
Load Regulation (10 - 90% rated voltage)	≤50mA	
Line Regulation (90 - 264Vac)	≤10mA	
Meter Accuracy		
Volt. Meter Accuracy	±(0.1% +5counts)	
Curr. Meter Accuracy	±(0.1% +5counts)	
Resolution	0.02V 0.01A	
Output Setting Accuracy	Voltage: ±(0.2% +5counts)V Current: ±(0.2% +5counts)A	
Transient Response Time (step: 50%-100% rated load)	≤1.5ms	
Protection	Adjustable upper voltage limit, Short circuit, Overload, Over temp., Adjustable upper current limit, Tracking OVP	
Output Terminals	Safety Jack @ Front Panel	
Additional Function	3 User defined V & I preset, Analogue Remote control V, I & output on-off	
Remote Programmable via USB to Computer	Max. 20 preset of V & I, Max. preset cycle 999	
Ramp Step Irregular Waveform Functions	Yes	
Approvals	CE EMC: EN 55011 LVD: EN 61010	
Cooling Method	Natural Convection	
Operating Temperature	0 - 40°C	
Dimensions (WxHxD)	200 x 95 x 245mm 7.9 x 3.7 x 9.5 inch	
Weight	2.3kg 5lb	

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Description

A conventional power supply has a set max. voltage and a set max current such that all the operating V & A must fall inside these limits. For example a 20V max. and 8A max. power supply with 160W can only supply voltage and current within the above two limits of V & I. If you want to have 40V with smaller current (4A) or 10A with lower voltage (14V) you need to buy another power supply.
This completely new designed laboratory grade power supply differs from the conventional power supply by calculating and changing the voltage and current limit points according to the available max. power.
So the max limits of the voltage and current are changeable according to the rated power. In the above example, with the constant-power supply can give 16V max. with 10A max. or 42V with 4A max and etc. The combinations of max. V and I are greatly increased and so is the range of operational limits as shown in the hyperbolic graph of max. power voltage-ampere.
The key benefit is clear, it saves money as one constant-power power supply can do the work of a few conventional power supplies.

Features

- Saves money and space as one power supply covers V, A limits of few power supplies.
- Adjustable upper voltage and current output levels to ensure safe operation
- 3 user presets of frequently used V and A outputs
- 4 digit display of voltage and current
- Analogue Remote Control V, I & On-Off
- Ramp, Step, DC output with 3 presets
- Remote Programming with provided software & drivers via USB port
- Output on-off switch and control panel lock button for safer operation
- Over Temperature, Over Current, Over Voltage and Short Circuit Protection
- Universal Input 90 - 264Vac, 50 - 60Hz

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