

FIXED VOLTAGE SWITCHING MODE POWER SUPPLY

SPA-Series

Description

This series of convection cooled switching mode power supply is designed for radio equipment. It is exceptionally immune to Radio Frequency Interference at close range. Heat is dissipated from the heat sink and the aluminum base for efficient natural cooling. It has the small footprint of popular radio transceivers, and the low profile casing make it fall in place with a host of equipment in a tight spot. The constant current protection, over temperature protection with constant current and output Over Voltage Protection (OVP) ensure better reliability and safer protection to both the power supply and its connected load. One main DC output at rear and a front mounted cigar socket provide convenient DC connectivity. It has excellent line and load regulation, low ripple and noise, optimal efficiency of 80% and a power factor of 0.7.

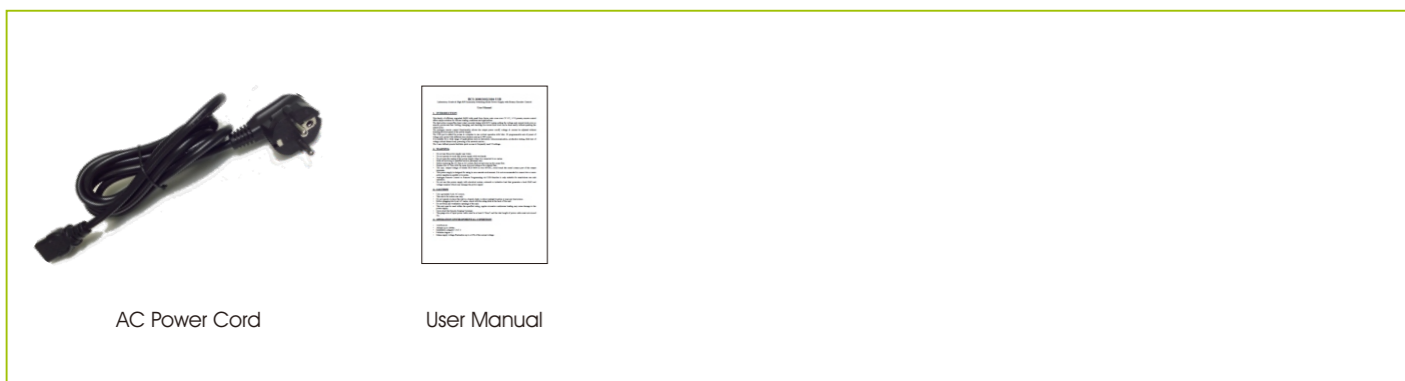
Features

- Natural cooling for absolute quiet operation (for SPA-8100, 8102).
- Fan Cool (0 to full speed)(for SPA-8150, 8152, 8230, 8232).
- High RFI immunity.
- Binding post and cigar socket DC output.
- Over Load, Short Circuit, Over Temperature protections by constant current circuitry.
- Output Over Voltage Protection.
- Power Factor Control.
- User adjustable fine tune setting 13.3-14.5V (SPA-8100, 8150, 8230) & 26.6-29V (SPA-8102, 8152, 8232).
- Floating ground design.

General Specifications

Input Voltage	200-240VAC 50Hz~ (or on request)
Indicators	Red Color Overload LED Indicator
Cooling Method	Air Convection (for SPA-8100, 8102) Fan Cool - 0 to full speed (for SPA-8150, 8152, 8230, 8232)
Operating Temperature	0-40°C
Protection	Overload, Over Temperature, Short Circuit Protection by Constant Current Circuitry and Over Voltage Protection
Approval	CE EMC: EN 55022 LVD: EN 60950
Dimension (WxHxD)	181x63x190 mm 7.2x2.5x7.5 inch
Weight	1.7 kgs 3.7 lbs

Accessories



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

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Specifications



Models	SPA-8100	SPA-8102
Output Voltage	Fixed 13.8VDC ±0.5V	Fixed 27.6VDC ±0.5V
Output Current (Main Output Posts) 1min. 50% Duty Cycle	10A cont. 12A max.	5A cont. 6A max.
Main Output Posts + Cigar Socket (1min. 50% Duty Cycle)	10A cont. 12A max.	5A cont. 6A max.
Ripple & Noise	≤50mVp-p 5mVrms	
Load Regulation (0-100% load)	≤50mV	
Line Regulation (±10% Variation)	≤50mV	



Models	SPA-8150	SPA-8152
Output Voltage	Fixed 13.8VDC ±0.5V	Fixed 27.6VDC ±0.5V
Output Current (Main Output Posts) 1min. 50% Duty Cycle	15A cont. 18A max.	7.5A cont. 8.5A max.
Main Output Posts + Cigar Socket (1min. 50% Duty Cycle)	15A cont. 18A max.	7.5A cont. 8.5A max.
Ripple & Noise	≤50mVp-p 5mVrms	
Load Regulation (0-100% load)	≤100mV	
Line Regulation (±10% Variation)	≤50mV	



Models	SPA-8230	SPA-8232
Output Voltage	Fixed 13.8VDC ±0.5V	Fixed 27.6VDC ±0.5V
Output Current (Main Output Posts) 1min. 50% Duty Cycle	23A cont. 25A max.	11.5A cont. 12.5A max.
Main Output Posts + Cigar Socket (1min. 50% Duty Cycle)	23A cont. 25A max.	11.5A cont. 12.5A max.
Ripple & Noise	≤50mVp-p 5mVrms	
Load Regulation (0-100% load)	≤100mV	
Line Regulation (±10% Variation)	≤50mV	

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