

# SP-500 Series

## 500W Single Output with PFC Function



### FEATURES

- Universal AC input - Full range
- Built-in active PFC function
- Short circuit, overload, over voltage, over temperature protected
- Forced air cooling by built-in fan
- Built-in cooling fan On-Off control
- Built-in remote ON-OFF control
- Built-in remote sense function
- 13.5V & 27V outputs available (contact sales for details)

### ENVIRONMENTAL

Operating Temp: -10 to +50°C (with de-rating)

Storage Temp: -20 to +85°C

### SAFETY / EMC (SEE NOTE 4)

EN60950  
UL60950

EN55022 (CISPR22) Class B  
EN61000-3-2,-3  
EN61000-4-2, 3, 4, 5, 6, 8, 11  
ENV50204  
Light industry level, criteria A

### ELECTRICAL SPECIFICATIONS

Model No.	SP-500-XX			
XX	12	15	24	48
AC Input	90-264VAC, Single Phase, 47-63Hz			
DC Input	127-370VDC			
DC Output				
Voltage	12V	15V	24V	48V
Current	0-40A	0-32A	0-20A	0-10A
Rated Power	480W	480W	480W	480W
Ripple & noise (p-p)	240mV	240mV	240mV	300mV
Voltage Tolerance	±1.0%	±1.0%	±1.0%	±1.0%
Line Regulation	±0.5%	±0.5%	±0.5%	±0.5%
Load Regulation	±0.5%	±0.5%	±0.5%	±0.5%
Overload	Fold-back I limiting. Recovers automatically when fault removed			
Over Voltage	Hiccup mode. Recovers automatically when fault removed.			
Over Temperature	Shut down output voltage.			
Dimensions	170(L) x 120(W) x 93(H)mm			
Weight	1.9Kg			

- Notes:**
1. All parameters *NOT* specially mentioned are measured at 230VAC input, rated load and 25°C ambient temperature.
  2. Ripple and noise are measured at 20MHz bandwidth by using a 12" twisted pair wire terminated with a 0.1µF and 47µF parallel capacitor.
  3. Tolerance includes set up tolerance, line and load regulation.
  4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.
  5. De-rating may be needed under low input voltage conditions. Please refer to de-rating curve for more details.



Specifications subject to change without notice

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