

# SP-320 Series

## 320W 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 fan speed control
- 3.3, 5, 7.5, 13.5, 27 & 36V outputs available (contact sales for details)

### ENVIRONMENTAL

Operating Temp: -20 to +65°C (with de-rating)

Storage Temp: -40 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  
EN55024  
Light industry level, criteria A



### ELECTRICAL SPECIFICATIONS

Model No.	SP-320-XX			
XX	12	15	24	48
AC Input	88-264VAC, Single Phase, 47-63Hz			
DC Input	124-370VDC			
DC Output				
Voltage	12V	15V	24V	48V
Current	0-25A	0-20A	0-13A	0-6.7A
Rated Power	300W	300W	312W	321.6W
Ripple & noise (p-p) (2)	150mV	150mV	150mV	240mV
Voltage Tolerance (3)	±1.0%	±1.0%	±1.0%	±1.0%
Line Regulation	±0.3%	±0.3%	±0.2%	±0.2%
Load Regulation	±0.5%	±0.5%	±0.5%	±0.5%
Overload	Hiccup mode. Recovers automatically when fault removed			
Over Voltage	Shut down output voltage. Re-power on to recover.			
Over Temperature	Shut down output voltage. Recovers automatically after temp goes down.			
Dimensions	215(L) x 115(W) x 50(H)mm			
Weight	1.1Kg			

**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.
6. 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

### Safety Power Group Ltd

9, Farnborough Business Centre, Eelmoor Road, Farnborough, Hampshire. GU14 7QN

Tel: +44 (0) 1252 515565

Fax: +44 (0) 1252 546021

e-mail: sales@safety-power.com

web: www.safety-power.com