

SPV-300 Series

300W Single Output with PFC Function Voltage programmable



FEATURES

- Universal AC input - Full range
- Built-in active PFC function
- Forced air cooling built-in DC fan
- Short circuit, overload, over voltage, over temperature protected
- Fixed switching frequency 100KHz
- O/P Voltage programmable
20-110% by 1-5.5VDC external control
- 12,24,48 VDC version available

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.	SPV-300-XX		
XX	12	24	48
AC Input	88-264VAC, Single Phase, 47-63Hz		
DC Input	124-370VDC		
DC Output			
Voltage	2.4-13.2V	4.8-26.4V	9.9-52.8V
Current	0-25A	0-12.5A	0-6.25A
Rated Power	300W	300W	300W
O/P voltage programmable	1-5.5VDC	By External	Control
Ripple & noise (p-p) (2)	150mV	150mV	240mV
Voltage Tolerance (3)	±1.0%	±1.0%	±1.0%
Line Regulation	±0.3%	±0.2%	±0.2%
Load Regulation	±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

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