

SP-750 Series - 750W AC-DC Active PFC Single Output Power Supply

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Features

- Universal AC input/Full range
- AC input active surge current limiting
- Built-in active PFC function, PF>0.95
- Protections: Short circuit, overload, over voltage, over temperature
- Forced air cooling by built-in DC ball bearing fan
- High power density 5.48/inch³
- Built-in constant current limiting circuit
- With power good and fail signal output
- Built-in remote ON-OFF control
- Built-in remote sense function

Standards



Case Details

278 x 127 x 63.5mm

Specification

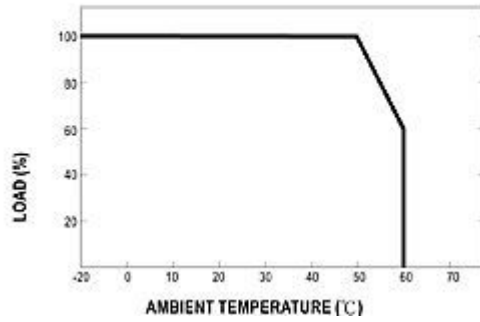
Input voltage	90 ~ 264VAC
Input Frequency	47 ~ 63Hz
Power factor	>0.95 at 230VAC >0.98 at 115VAC, full load
Input current	11A at 115VAC 5.3A at 230VAC
Inrush current	30A at 115VAC 50A at 230VAC
Leakage current	<2.0mA at 240VAC
Setup, rise, hold-up time	600ms, 50ms, 16ms at 230VAC 600ms, 50ms, 16ms at 115VAC and full load
Overload protection	105~125% rated output power. Constant current limiting, unit will Hiccup after 3 sec.
Over voltage protection	Protection type: auto shutdown, turn off then on to recover
Over temperature protection	85°C ?5°C (TSW1) Detect on heatsink of power transistor 85°C ?5°C (TSW2) Detect on heatsink of pow
Power good/fail	50ms/1ms
Remote control	RC+/RC- short power on, open power off
Operating temperature	-20°C to +60°C (Refer to output load derating curve)
Operating humidity	20% to 90% RH non-condensing
Storage temperature, humidity	-40°C to +85°C, 10 ~ 95% RH
Temperature coefficient	?0.05%/°C (0°C to 50°C)
Vibration	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes
Withstand voltage	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC
Isolation resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC
Safety standards	UL60950-1, TUV EN60950-1 Approved
EMC	Compliance to EN55011 (CISPR11), EN55022 (CISPR22) Class B, EN61000-3-2,-3, EN61000-4-2,3,4,5,6,8,1
MTBF	769.3K hrs min. MIL-HDBK-217F (25°C)

Items

SP-750

Part No	Voltage	Current Range	Rated Power	R&N	Voltage Adj.	Tol.	Line Reg.	Load Reg.	Eff.	OVP
SP-750-5	5V	0~120A	600W	120mV	4.75~5.5V	±2.0%	±0.5%	±2.0%	81%	5.75~6.3V
SP-750-12	12V	0~62.5A	750W	120mV	10~13.5V	±1.0%	±0.3%	±0.5%	86%	13.8~16.2V
SP-750-15	15V	0~50A	750W	120mV	13.5~16.5V	±1.0%	±0.3%	±0.5%	87%	18~21V
SP-750-24	24V	0~31.3A	751.2W	120mV	22~26.4V	±1.0%	±0.2%	±0.5%	89%	27.6~32.4V
SP-750-27	27V	0~27.8A	750.6W	120mV	24~30V	±1.0%	±0.2%	±0.5%	89%	31~36.5V
SP-750-48	48V	0~15.7A	753.6W	120mV	43~56V	±1.0%	±0.2%	±0.5%	90%	57.6~67.2V

■ Derating Curve



■ Static Characteristics

