

SPJ200 Series, 200W Open Frame



Features

- 5 x 3 x 1.5 inches form factor
- 200 W with forced-air cooling
- High efficiency > 88%
- 12 V fan output
- 5 V standby output
- Remote sense
- Output voltage adjustability

Electrical Specifications

Input Voltage	90-264 VAC/120-390 VDC, Universal	
Input Frequency	47-63 Hz	
Input Current	120 VAC: 2.4 A max.	230 VAC: 1.2 A max.
No Load Power	0.8 W	
Inrush Current	120 VAC: 35 A max.	230 VAC: 65 A max.
Leakage Current	120 VAC: < 150 μ A	230 VAC: < 300 μ A
Efficiency	120 VAC: 84% typical	230 VAC: 86% typical
Hold-up Time	120 VAC > 10 ms	230 VAC > 10 ms
Power Factor	120 VAC: 0.99	230 VAC: 0.95
Output Power	160 to 200 W	
Peak Power	250 W for 0.2 s	
Line Regulation	+/- 0.5%	
Load Regulation	+/- 2.0%	
Transient Response	< 10%, 50% to 100% load change, 50 Hz, 50% duty cycle, 0.1 A/ μ s, recovery time < 5 ms	
Rise Time	< 100 ms	
Set Point Tolerance	+/- 1%	
Output Adjustability	+/- 3.0%	
Over Current Protection	110% typical above rating	
Over Voltage Protection	110 to 150%	
Short Circuit Protection	Short term, autorecovery	
Switching Frequency	PFC converter: Variable, 35-250 kHz; 90 kHz typical Resonant converter: Variable, 35-250 kHz; 90 kHz typical	
Operating Temperature	-20 to +70°C, refer derating curve, -20 to 0°C, start-up is guaranteed	
Storage Temperature	-40 to +85°C	
Relative Humidity	95% Rh, noncondensing	
Altitude	Operating: 10,000 ft.; Nonoperating: 40,000 ft.	
MTBF	1.6M Hours, Telcordia-SR332-issue 3	
Isolation Voltage	Min. 4242 VDC between input to output	
Cooling	Convection: 83 W; 300 LFM: 175 W (5 V model) Convection: 160 W; 300 LFM: 200 W (other models)	



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Available outputs:

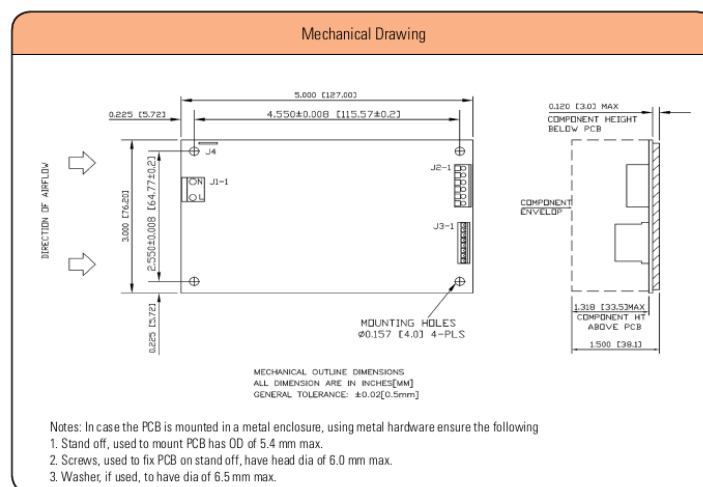
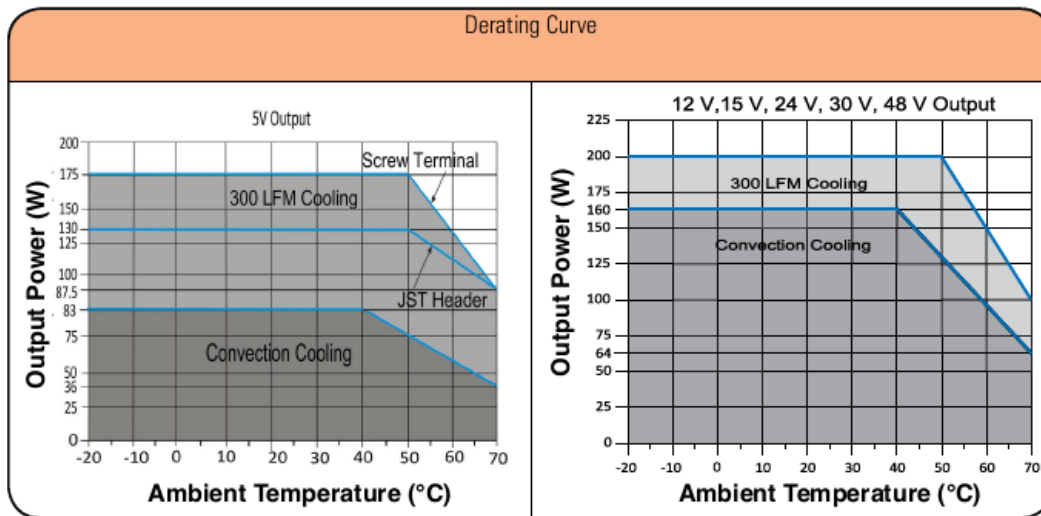
<u>Model</u>	<u>Output Voltage</u>	<u>Max. Load</u>	<u>Min. Load</u>	<u>Ripple</u>
SPJ200-050-XY	5V	16.67A / 35A AIR	0.0A	1%
SPJ200-120-XY	12V	13.33A / 16.67A	0.0A	1%
SPJ200-150-XY	15	10.67A / 13.33A	0.0A	1%
SPJ200-240-XY	24V	6.67A / 8.33A	0.0A	1%
SPJ200-300-XY	30V	5.33A / 6.67A	0.0A	1%
SPJ200-480-XY	48V	3.33A / 4.17A	0.0A	1%

Mechanical Specifications	
AC Input Connector (J1)	Molex: 26-60-4030 or equivalent Mating: 09-50-3031; Pins: 08-50-0106
EARTH (J4)	Molex: 19705-4301 or equivalent; Mating: 190030001
DC Output Connector (J2)	Option 1: Tyco: 2-1776112-3 or equivalent Mating: 13 AWG wire Option 2: JST: B6P-VH-B (LF) (SN) or B6P-VH (LF) (SN) or equivalent Mating: VHR-6M; Pins: SVH-41T-P1.1
Signal Connector (J3)	Molex: 22-23-2081 or equivalent Mating: 22-01-2087, Pins: 08-50-0113
Dimensions	5.0 x 3.0 x 1.5 inches (127.0 x 76.2 x 38.1 mm)
Weight	325 g
EMC	
CE Mark	Complies with LVD Directive
Conducted Emissions	EN55022-B, CISPR22-B, FCC PART15 Class B
Static Discharge	EN61000-4-2, Level-3
RF Field Susceptibility	EN61000-4-3, Level-3
Fast Transients/Bursts	EN61000-4-4, Level-3
Radiated Emissions	EN55022-B, CISPR22-B, FCC PART15-B, to be controlled in end system
Surge Susceptibility	EN61000-4-5, Level-3
Harmonic Current	EN61000-3-2, Class D
Safety	
Safety Standard(s)	UL/CSA C22.2 No./IEC/EN60950-1 (ed.2)
Approval Agency	Nemko, UL

Signal	
Power Good Signal	TTL signal goes high after main output is within regulation band, delay is 0.1 to 0.3 s
Power Fail Signal	TTL signal goes low 1 ms advance before output goes out of regulation due to mains failure
Remote Sense	Compensates for 200 mV drop
Remote on/off	To turn on PSU short remote pin to ground

Connectors		
J1	Pin 1	AC NEUTRAL
	Pin 2	AC LINE
Spade Connector (J4) (Class 1 product only)		EARTH
J2	Pin 1, 2, 3	RTN
	Pin 4, 5, 6	V1

Connectors		
J3	Pin 1	+VE REMOTE SENSE
	Pin 2	VFAN (+12 V/0.5 A)
Pin 3	-VE REMOTE SENSE	
Pin 4	REMOTE ON/OFF	
Pin 5	VSTBY (+5 V/1 A, +/-5%)	
Pin 6	RTN	
Pin 7	POWER FAIL	
Pin 8	POWER GOOD	





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