=CONDOR

1200 WATTS POWER FACTOR CORRECTED SINGLE OUTPUT, HOT SWAP

SPH-1200





Featuring:

- Diode isolated output for hot swap
- "Zero wire" slope program current sharing for redundancy
- High power density: 5 W/cu. in.
- Industry standard DIN connector
- Universal AC input
- 0.99 typical power factor
- DC power good and AC power fail signals
- True remote inhibit
- Monotonic turn-on and turn-off

STANDARD SPH SERIES

MODEL	OUTPUT RATING	PWR OUT
SPH-1200-24	24V @ 50A	1200
SPH-1200-28	28V @ 42A	1200
SPH-1200-48	48V @ 25A	1200

The SPH-1200 series provides lowcost, highly reliable, N+1 redundant hot swap power for critical applications.

These 1200-watt single-output power supplies include an integral fan and are available with a front panel and handle for front access in sub-system racks or without handles for embedded applications.

Power factor correction, OR-ing diodes, and current sharing make the SPH series an ideal choice for communications and data processing systems utilizing distributed power or redundant power architecture.



1200 WATTS 13.44″x 5″x 4.03″ **SPH-1200**

SPH-1200 7.3 lbs - 3.3 kgs 1.15 29.2 5.00MAX 127.0MAX 4.03MAX 102.3MAX AIR INTAKE <u>.19</u> 4.8 13.44MAX 341.4MAX 12.00 10000 32 ٦ſ 2 53 64.3 EXHĂUST

SPECIFICATIONS: ALL MODELS

Inches

Millimeters

INPUT

Dimensions:

AC Input: 105-264 Vac continuous range, 47 to 63 Hz. Internally fused for 20 A. Power Factor: 0.99 typical at full load. Meets EN61000-3-2. Inrush: Cold start ac current is less than 75 A at 115 Vac and 150 A at 230 Vac for 8 ms

typical. Limited by thermistor. Holdup Time: 16 ms minimum after removal of power at full load. Efficiency: 80% minimum

AC Power Fail: Provides TTL "0" 5 ms before output voltage goes out of regulation band upon loss of AC power. Brownout Protection: Holds regulation to 85 Vac for 30 seconds maximum.

OUTPUT

Adjustability: User adjustable ±5% minimum.

Adjustability: User adjustable ±5% minimum. Line Regulation: ±0.2% Load Regulation: ±2% (Slope Program) from 0 to 100% load change. Turn On Delay: 1 second typical Output Rise Time: (from 10% to 90%) 20 ms typical. Ripple & Noise: Less than 1% p-p, measured at 20 MHz bandwidth. Temperature Coefficient: 0.02% per degree C. Stability: 0.1% over 8 hours after 30 minutes warm-up. Transient Response: Output voltage returns to within 1% in less than 500 μs for a 50% load change. Peak transient does not exceed 3%. Overload Protection: Electronic current limit 120% maximum

Overload Protection: Electronic current limit, 120% maximum. Overvoltage Protection: Protects load against power supply induced overvoltage. Trip point is factory set so that output voltage cannot exceed 136% of nominal. Requires AC input

- is factory set so that output voltage cannot exceed 136% or nominal. Requires Ac input to be cycled to reset. Remote Inhibit: Contact closure or a TTL level "0" turns off DC output. DC Power Good: Provides a TTL "0" open collector when output is above 90% of nominal. Maximum pull-up voltage 30 Vdc; maximum sink current, 10 mA. Redundancy: Built-in OR-ing diode, slope program current sharing, and DIN blade connector provide "hot swap" and "N+1" capabilities. Current sharing remains within 10% of the unit's full output rating given 0.2% initial accuracy in the output voltage setting. Status Indicators: Green LED on the front panel indicates normal operation (ACPF high and DCPG low)
- DCPG low)

ENVIRONMENTAL

Thermal Protection: Shuts down power supply if overheated. Automatic recovery. Temperature Range: 0° to 50°C at full ratings

Safety Agencies: Approved to UL1950; CSA 22.2 #950; IEC 950 and TÜV EN60950, Class 1 SELV, CE 73/23/EEC//93/68/EEC (low voltage directive). Conducted RFI: Meets FCC Part 15, Subpart J, Class A; EN55022 Class B; and CISPR 22

Class B

Cooling: Self-cooled by internal ball-bearing fan.

OPTIONS

Option "R", Rack Mount Panel: Special panel is required for rack mounting.

Consult factory for other available options.

AC INPUT (105-264 VAC Continuous Range)

LOCATION	115 VAC	230 VAC	CONNECTOR
Z32	Line	Line 1	
D30	Neutral	Line 2	See Below
Z28	Safety Ground	Safety Ground	

DC OUTPUT

FUNCTION	LOCATION	NOTES	CONNECTOR
Output	Z12 D14 Z16 D18	(+) to Polarity	Eurocard Connector -
Voltage	Z4 D6 Z8 D10	(-) to Polarity	Male DIN 41 612 Level 1- Type H

STATUS AND CONTROL

FUNCTION	LOCATION	NOTES	CONNECTOR
DC Power Good	Z20	Reference to	See above
AC Power Fail	D22	to Common	
Inhibit	Z24		