

Electrical Specification for:	48V 1.5KW 1U AC-DC Power Supply
Digital Power Model:	PS-1548



Signals & Commands

Important note: All signals and commands refer to +5V Aux RTN.

(See attached pin assignment table)

Inhibit:	Active low, main outputs shut down to zero. Only auxiliary output exists at this point.
Enable:	Contact closure to external ground to start unit. On shortest unit. On shortest pin (last make, first break)
PS Alarm:	Open collector active low when the output drops 10% below nominal.
AC OK:	Open Collector Active low when AC in range.
Fan Fail:	TTL Compatible signal, normally High, goes low when fan fail.
I ² C (IPMI interface) - <i>OPTION</i>	Internal I ² C/IPMI interface Card

Visual Indicators

AC In Range	Green LED illuminates for AC O.K
Output In Range	Green LED illuminates for V1 output in range.
Hot swap indication	Blue LED illuminates in accordance with ATCA standard for hot swap indications (see Hot swap indication Table)

Environmental Specifications:

Temperature:	Operating: -10°C to +50°C (de-rating linearly to 70 °C with 50% de-rating). Storage: -40°C to +85°C.
Temperature Coefficient:	0 to 70°C ± 0.02%/°C
Cooling:	Forced air by internal 2 fans
Humidity:	5% to 95% RH non-condensation.
Altitude:	Operating 10,000 ft. Non- operating 40,000 ft.
Vibration:	Three orthogonal axes at 1 octave/min, 5 min dwell at four major resonances at 0.75G peak, 5Hz to 500Hz.

Safety Regulatory & EMC Specifications (Designed to meet):

MEETS FCC CLASS B, CI SPR 22 CLASS B, EN55022 CLASS B with an external TBD line filter

EN61000-3-2	HARMONICS
EN61000-3-3	VOLTAGE FLUCTUATION
EN6000-4-2	ESD +8KV AIR +4KV CONTACT DISCHARGE, performance criteria B
EN61000-4-3	RADIATED IMMUNITY: 80-1000Mhz 3V/m, AM 80% (1KHz), criteria A
EN61000-4-4	FAST TRANSIENT: 1KV for AC power port, 0.5KV for DC power I/O and signals Port, performance criteria B
EN61000-4-5	SURGE: 2KV common mode and 1KV differential mode
EN61000-4-6	3VRMS, 80% A.M. BY 1kHz
EN61000-4-8	3A /m at 50Hz, performance criteria A.
EN61000-11	VOLTAGE Dips and interruption: 30% reduction for 10mSec –Criteria B, 60% For 100mSec. Criteria C, 95% reduction for 5000mSec Criteria C.

Dielectric Withstand:

Input to Case:	1500VAC.
Input to Output:	3000VAC
Output to Case:	1500VDC

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