

Power For The New Technology

PS2444-YE

Total Power	1200 Watts
Input Voltages	100 to 240 VAC
Outputs	12V @ 100A 5V @ 2A

SPECIAL FEATURES

- Efficiency 85% @ low line, 89% @ high line
- Compact 1U design
- N+1 redundant
- Hot swappable
- Current sharing
- I²C Interface
- Fan speed monitoring
- 5V @ 2A (1.5A at 55°C) standby output

ENVIRONMENTAL

Ambient Operating Temperature: 0 to +55°C

Humidity: Up to 95% non-condensing

Temperature coefficient: ±0.01% / °C

Storage Temperature: -20°C to +65°C

Cooling: Two 15 CFM fans. Airflow from front to back.



ELECTRICAL SPECIFICATIONS

Input

90Vac – 264Vac

Cold start-up @ 264Vac.....< 50 Amps peak

Isolation.....2121 VDC (Input to Chassis)
4242 VDC (Input to Output)

Susceptibility specifications:
Complies with EN55022 & FCC Class A

Output

DC Output.....Maximum continuous output power 1200W with internal cooling. See Voltage/Current Rating Chart.

Load Regulation.....< 3% for 12V output

.....< 2.5% for 5V output

Ripple and Noise.... 1% for 12V output, 0.1V for 5V output

Transient Response.....4% Maximum deviation;

Third Wire Current Sharing for 12V output;

MECHANICAL

11.23"L X 1.6"H X 5.6"W (285.2 mm X 40.4 mm X 141.2 mm)

Input connector: Standard 16A/20A AC connector

Output connector: FCI 51732-026LF

Status signals and indicators

Input GOOD

Output GOOD

Over temperature/Fan fail

PS PRESENT

Visual LED indicators identify power supply status.

The indicators are:

Power Fail (Green)

Output Good (Green)

Fan Fail and Over temperature (Amber)



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Output

Over voltage protection – For 12V output 110 - 135% (Latching)

Over temperature protection.

Short circuit Protection.....Will withstand a continuous short without damage.

Minimum Load Rqmt...0% of full load 12V output.
0% of full load 5V output.

Hold-Up Time.....20 ms typical

Voltage/Current Rating Chart

Voltage	Current Minimum	Current Maximum
12V	0A	100A
5V	0A	2A

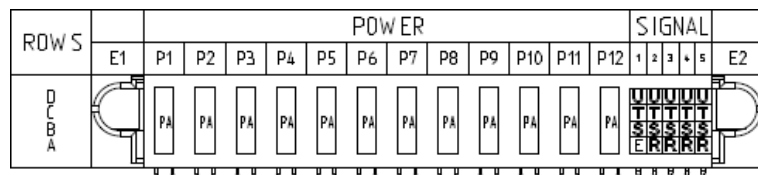


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FCI Output Connector PIN Assignment

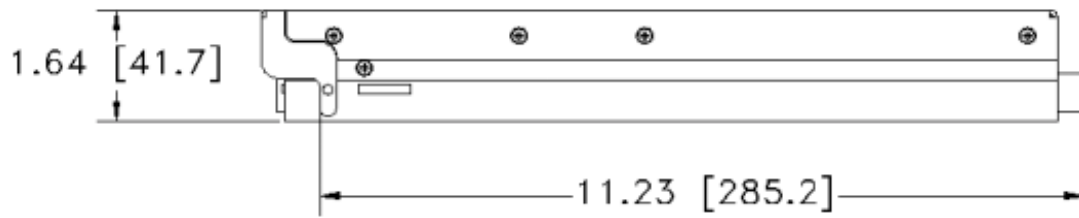
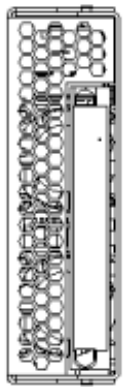
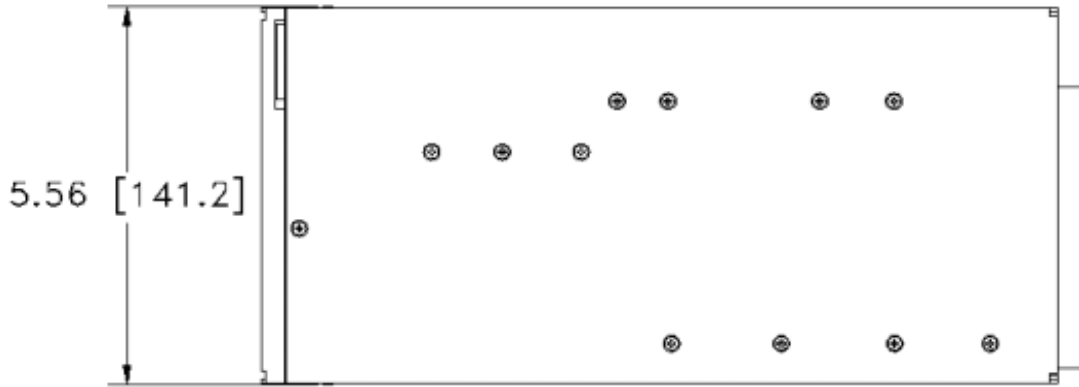
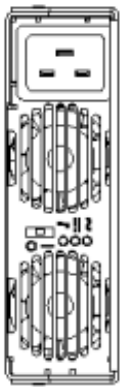
Output Connector Description	PIN Location
Over Temp/Fan Fail	U1
DC Fail /Power Down Warning	U2
PS Present	U3
DC Fail/Output Voltage Fault (DC OK)	U4
Internal GND	U5
ADDR0, I ² C address bus	T1
ADDR1, I ² C address bus	T2
ADDR2, I ² C address bus	T3
N.U.	T4
N.U.	T5

Output Connector Description	PIN Location
DATA, I ² C data line	S1
Clock, I ² C clock line	S2
Aux. Power +5V	S3
Aux. Power GND	S4
Logic GND	S5
Output Inhibit	E1
N.U.	R2
V Sense -	R3
N.U.	R4
Current Share	R5
V _{O1} -	P1,P3,P5,P7, P9,P11
V _{O1} +	P2,P4,P6,P8, P10,P12



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Mechanical Outline



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