

Power For The New Technology

PS2445-YE

Total Power	1200 Watts
Input Voltages	-40 to -72 VDC
Outputs	12V @ 100A 5V @ 2A

SPECIAL FEATURES

- Efficiency 89%
- Compact 1U design
- N+1 redundant
- Hot swappable
- Current sharing
- I²C Interface
- Reverse polarity protection
- On/Off microswitch on front panel
- Fan speed monitoring
- 5V @ 2A 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

12V on at 39.5V +/- 1V; off at 38V +/- 1V;
5V STBY on at 35V
Inrush Current (-72 Vdc).....< 20 Amps peak
Isolation.....1000 VDC (Input to Chassis)
2250 VDC (Input to Output)

Susceptibility specifications:

Complies with EN55022 & FCC Class A with 10dB margin
Efficiency..... 89% typical at Full load

Output

DC Output.....Maximum continuous output power 1200W
with internal cooling. See Voltage/Current Rating Chart.
Load Regulation.....< 3% for 12V output
.....< 4% for 5V output
Ripple and Noise.....< 1%
Transient Response.....4% Maximum deviation;
Single Wire Current Sharing for 12V output;

MECHANICAL

11.23"L X 1.6"H X 5.56"W (285.2 mm X 40.4 mm X 141.2 mm)

Input connector: Molex 42820, 2 pin version

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)



Rev 1

Molex Input Connector PIN Assignment

Output

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

Over temperature protection.

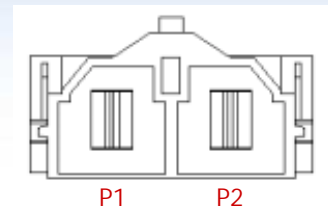
Short circuit Protection.....Will withstand a continuous short without damage.

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

Hold-Up Time.....1.21 ms typical

Voltage/Current Rating Chart

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



P1	P2
-48VDC	48VDC Return

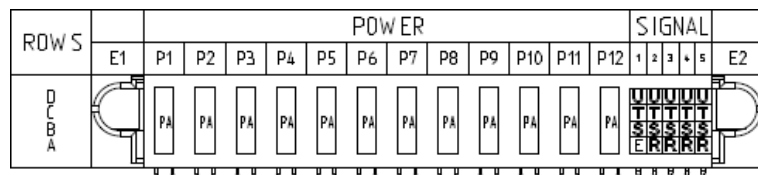


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FCI Output Connector PIN Assignment

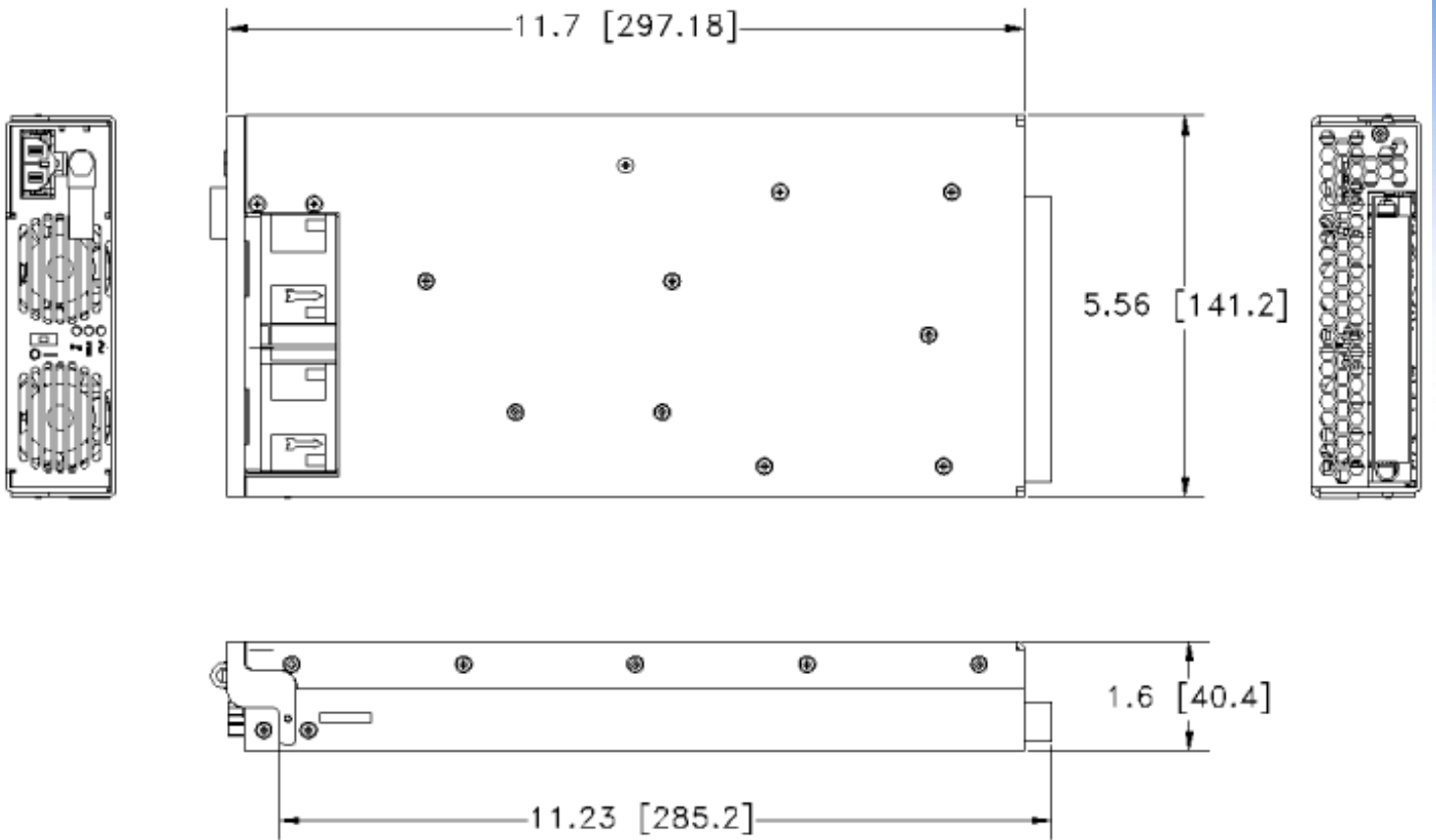
Output Connector Description	PIN Location
Over Temp/Fan Fail	U1
DC Fail /Power Down Warning	U2
PS Present	U3
DC Fail/Output Voltage Fault (DC OK)	U4
Internal GND	U5
ADDR0, I ² C address bus	T1
ADDR1, I ² C address bus	T2
ADDR2, I ² C address bus	T3
N.U.	T4
N.U.	T5

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



Rev 1