

# Power For The New Technology

## PS2436-YE

Total Power	750 Watts
Input Voltage	90-264 VAC
Outputs	12V @ 62.5A

### SPECIAL FEATURES

- 90-264 VAC input
- Power factor correction (PFC) Meets EN61000-3-2
- UL, CSA, TUV, BAPT Recognized
- Enable control (active low)
- EN55022 Class B
- N+1 Redundant
- Accurate current sharing utilizing third wire on 2.5V and 3.3V
- Low profile height fits 1U system

### ENVIRONMENTAL

Ambient Operating Temperature: 0 to +50°C continuous duty, full rating.

Humidity: Up to 95% non-condensing

Temperature coefficient:  $\pm 0.01\%$  / °C

Storage Temperature: -20° to +85°C

Cooling: Two internal fans. Air flow front to back.



### ELECTRICAL SPECIFICATIONS

#### Input

Input.....90 -264 VAC; 47-63Hz;  
Power Factor >0.99  
Inrush Current (264 Vac).....< 40A peak  
Isolation.....4242VDC (Input to Output)

#### Susceptibility specifications:

EN 61000-3-2 AC Input line harmonic limits  
Complies with EN55022 & FCC Class A with minimum 6 dB margin  
Efficiency.....85% typical at full load.

#### Output

DC Output.....Maximum continuous output power 750W  
Line / Load Regulation.....< 1%  
Ripple and Noise < 1% of output voltage  
Transient Response...2% Maximum deviation

### MECHANICAL

10.75" L x 1.68" H x 5.0" W (273 mm x 42.67 mm x 127 mm)

Input Connector/Output Connector  
PCIH49W25M400A1/AA-378.0

Weight: < 5 lbs

### Status signals and indicators

PS present  
DC OK  
AC Fail via I2C

Visual LED indicators identify power supply status.

- Green LED indicates DC output within regulation
- Red LED indicates DC output fault



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## Power Supply Input/Output Signals

### Output

Over voltage protection – (Latching)  
Over current protection – (Latching)

Over temperature protection – ( Hiccup )

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

Minimum Load Rqmt.....No minimum load

No Load Operation.....No damage to supply when operating at no load.

Hold-Up Time.....20 mSec typical

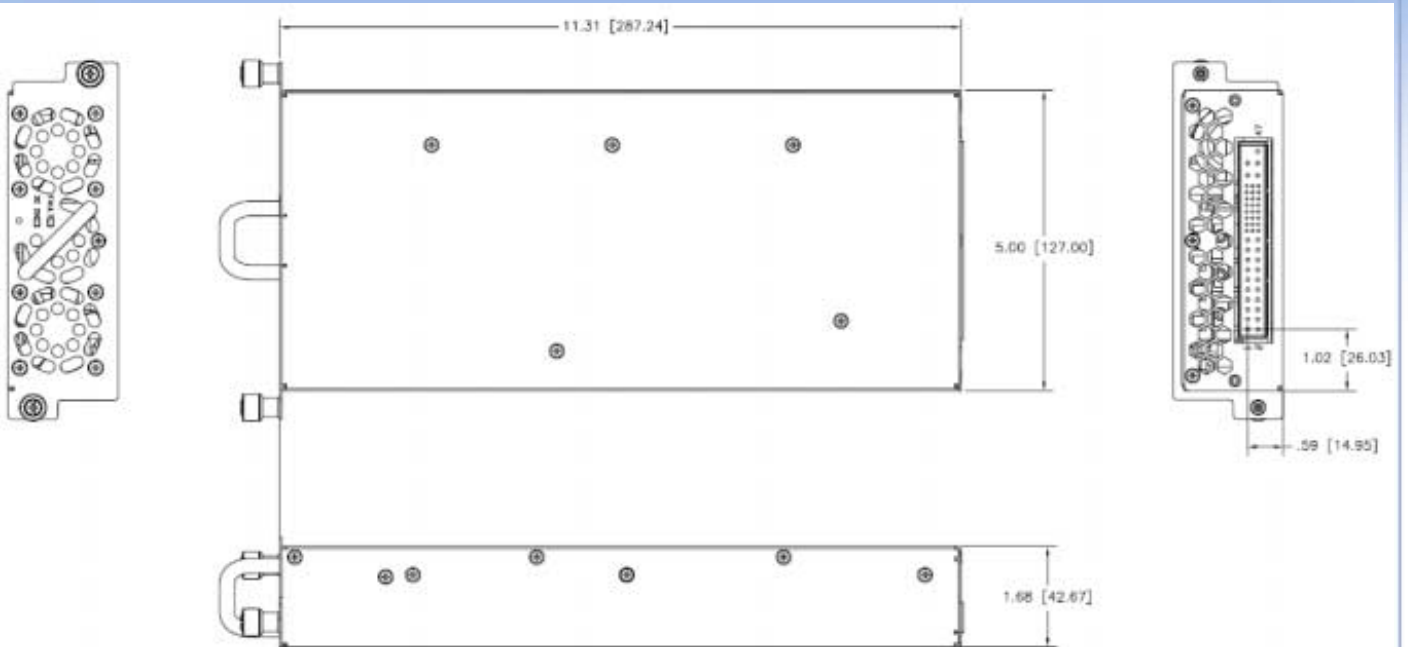
OVP.....115% typical

OCP .....110% typical

PIN #	Signal	Description	Active State
7 – 12	12V	12V Power	N/A
1 – 6	12V RTN	12V Return	N/A
31	SDA I <sup>2</sup> C Data	I <sup>2</sup> C Serial Data (Reference to System Ground)	N/A
32	SDA I <sup>2</sup> C Clock	I <sup>2</sup> C Serial Clock (Reference to System Ground)	N/A
30	A0 I <sup>2</sup> C Address	I <sup>2</sup> C Address (Reference to System Ground, A1 & A2 are pulled up to 3.3V internally)	Low = PS1 High = PS2
33	PS Present	Signifies that the power supply is plugged into the slot	Low = PS engaged. Connect to System GND on backplane
27	Remote On/Off	Short pin on the connector that enables the power supply to be hot pluggable	Low = On High or Float = Off. Connect to 12V RTN on backplane
34	System GND	Ground. Provides an isolated return for PS Present and I <sup>2</sup> C signals	N/A
21	Share Pin	Enables current sharing between two supplies	Tie to the share pin on 2 <sup>nd</sup> PS via the backplane to enable current sharing between supplies
45	Chassis GND	GND	N/A
46	Neutral	AC Neutral Input	N/A
47	Line	AC Line Input	N/A



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