

# Power For The New Technology

## PS2474-YE

Total Power	300 Watts
Input Voltage	90-264 VAC
Outputs	12V @ 25A

### SPECIAL FEATURES

- 90-264 VAC input
- Power factor correction (PFC) Meets EN61000-3-2
- UL, CSA, TUV, BABT Recognized
- EN55022 Class A, FCC part 15 Class A
- N+1 Redundant with droop sharing
- OVP, OTP and over power limit at Input stage
- OVP and OCP at output stage

### ENVIRONMENTAL

Ambient Operating Temperature: 0°C to +50°C

Humidity: Up to 95% non-condensing

Temperature coefficient:  $\pm 0.02\%$  / °C

Storage Temperature: -40°C to +85°C

Cooling: One self contained fan



### ELECTRICAL SPECIFICATIONS

#### Input

Input.....90 -264 VAC; 47-65Hz;  
Power Factor 0.99 typical  
Inrush Current (230 Vac).....< 31 Amps peak  
Isolation.....2500VDC (Input to Output)

#### Susceptibility specifications:

EN 61000-3-2 AC Input line harmonic limits  
Complies with EN55022 & FCC Class A with minimum 5 dB margin  
Efficiency..... 85% typical at full load and 230Vac line voltage

#### Output

DC Output.....Maximum continuous output power  
300 Watts.

Line / Load Regulation.....< 5%  
Ripple and Noise < 1% typical  
Transient Response...4% Maximum deviation;

### MECHANICAL

8.5" L x 1.6" H x 4.0" W (216 mm x 40.6 mm x 102 mm)

Input connector: IEC inlet at front

Output connector: Molex P/N 15-06-0240 or  
equivalent at rear

#### Status signals and Indicators:

I<sup>2</sup>C interface and control

Two visual LED indicators identify power supply status.

The indicators are:  
AC OK – green LED  
DC OK – green LED



## PIN ASSIGNMENT

### **Output**

Over voltage protection 108% - 110% (Latching)

Over current protection 120% - 130% (Latching)

Over temperature protection (lockout)

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

Minimum Load Rqmt.....See Voltage/Current chart.

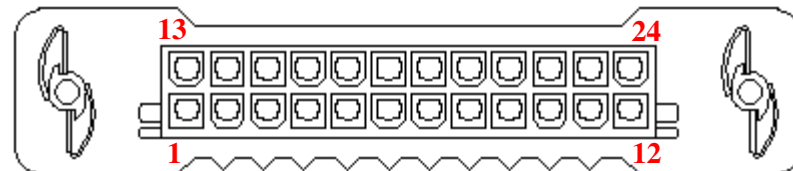
No Load Operation.....No damage to supply when operating at no load.

Hold-Up Time.....>20 mSec

### **Voltage/Current Rating Chart**

Voltage	Current Minimum	Current Maximum
+12V	0A	25A

Pin #	Signal
4, 5, 6, 16, 17, 18	12V Output
1, 2, 3, 13, 14, 15	12V Output RTN
9	AC Fail DC Fail Temp Fail
24	Fan OK
23	PS Present
11	I <sup>2</sup> C Serial Data
12	I <sup>2</sup> C Serial Clock
21	Address Input Line A0
20	Address Input Line A1
8	Address Input Line A2
22	Remote Shutdown (Active High)



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