

PS2450

Input Voltage	250 -420VDC
Total Power	2078 Watts
Output	Two

SPECIAL FEATURES

- Power Density > 6W/ cu in
- 250-420 VDC input with hysteretic under voltage lockout
- Conformal coated to meet UL840 Pollution Degree 2 conditions
- FCC Class B EMI
- UL, CSA, EN60950 safety
- Liquid cooled
- Efficiency > 90%

ENVIRONMENTAL

Ambient Operating Temperature: -40 to +65°C.

Humidity: 27°C max wet bulb, condensation is possible

Storage Temperature: -40° to +125°C

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

Cooling: Cooling tube, liquid cooled.



ELECTRICAL SPECIFICATIONS

Input

Input.....250-420VDC

Inrush Current (375 VDC).....< 50A peak

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

Susceptibility specifications:

Complies with EN55022 & FCC Class B with minimum 6dB margin

Efficiency.....85% min.

Output

DC Output.....Maximum continuous output power 2078W

Peak Power.....3160W

Line / Load Regulation.....< 1%

Ripple and Noise < 1% of output voltage

Transient Response...2% Maximum deviation;

MECHANICAL

14.5"L x 12.3"H x 2.6"W (367.6mm X 311.6mm X 66.2mm)

Input Connector.....2 Pin Molex connector

Control Connector.....8 Pin Molex connector

Weight: Approx. 10 Lbs

Status signals

Remote On/Off – Logic low

Cooling request warning

Output

Over voltage protection – (Latching)

Over current protection (Hiccup)

Over temperature protection.

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.

OVP.....115%V typical

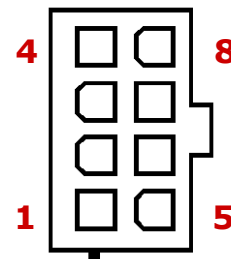
Voltage/Current Rating Chart

13.5V Output	Minimum	Maximum
Voltage	13.51V	13.54V
Current	120A	0A

12.5V Output	Minimum	Maximum
Voltage	12.5V	12.5V
Current	36.5A	0A

Output Control Connector Pin Assignment

Description	PIN
13.5V Enable	1
12.5V Enable	2
12V Standby	3
12V Standby RTN	4
Con Power	5
VS1+	6
VS2+	7
Cooling Request	8



Mechanical Outline

