

# Power For The New Technology

## 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

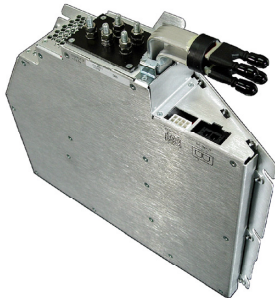
Ambient Operating Temperature: -40 to +65°C.

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

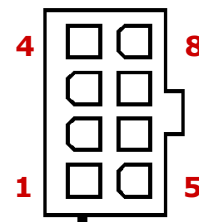
## Voltage/Current Rating Chart

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



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## Mechanical Outline

