

Power For The New Technology

PS2379

Total Power	1200 Watts
Input Voltages	90-264 VAC
Outputs	12V @ 100A

SPECIAL FEATURES

- Power factor >0.97
- 90-264 VAC input with under voltage lockout
- UL, CSA, TUV, BABT (pending)
- Efficiency >86%
- Redundant system with Oring diodes and Third Wire current sharing
- 16W/ cu in. fits 2U applications
- Self cooling (internal fan)
- Remote sensing on RTN line

ENVIRONMENTAL

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

Humidity: Up to 95% non-condensing

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

Storage Temperature: -20° to +85°C

Cooling: Two 24 CFM fans. Air flow front to back.



ELECTRICAL SPECIFICATIONS

Input

Input.....90 - 264 VAC; 47-63Hz;
Power Factor >0.97

Inrush Current (264 Vac).....50 Amps 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.....> 87% typical at full load

Output

DC Output.....Maximum continuous output power
1200 Watts with internal cooling. See Voltage/Current Rating Chart.

Load Regulation.....< 1% (total)

Ripple and Noise < 200mV typical

Transient Response..... 4% Maximum deviation;

Current Sharing; Third Wire.

MECHANICAL

13.0"L x 1.69"H x 3.4"W (330.2mm x 42.9mm x 85.5mm)

Status signals and indicators

DC Good

AC Good

Visual LED indicators identify power supply status.

The indicators are:

AC Good

DC Good



Positronic Connector PIN Assignment

Output

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

Over temperature protection. (non-Latching)

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

Minimum Load Rqmt.....0% of full load main output.

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

Hold-Up Time.....16 mSec typical

OVP.....14V typical

Voltage/Current Rating Chart

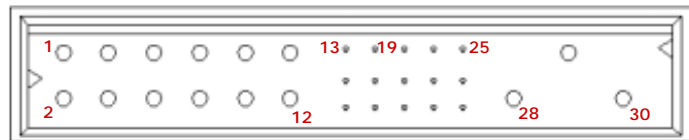
Voltage	12V	12V
Current	100A	0A

Topologies

PFC, boost converter (136kHz)
Phase shifted, ZVS full bridge (120kHz)

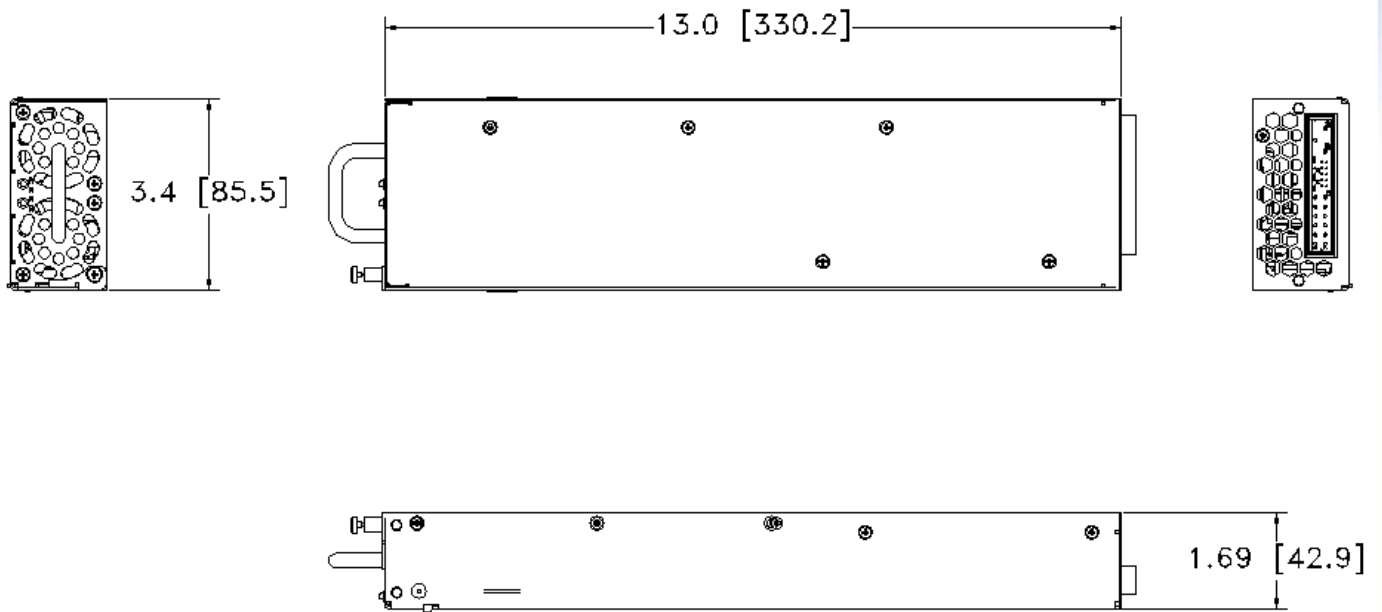
Pin Number	Function
1, 2, 3, 4, 6, 8	Common RTN
5, 7, 9, 10, 11, 12,	+12V
13	Enable
14	DC_OK
15	Current Share
16, 17, 18, 21, 22, 23, 25, 26, 27	N.U.
19	AC_OK
20	RTN Sense
24	5V Aux.
28	Chassis
29	AC Neutral
30	AC line

Rear View



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Power Supply Mechanical Outline



Rev 2