

PS2300

Compact PCI Power Supply

Total Power	350 Watts
Input Voltages	36-72 VDC
Outputs	Four

SPECIAL FEATURES

- Power density 3.8W/ cu in.
- UL, CSA, TUV Recognized
- NEBS compliant
- FCC Class A, CISPR Class A conducted EMC compliance
- Efficiency > 73%
- PCI 38 PIN positronic connector

ENVIRONMENTAL

Ambient Operating Temperature: -5 to +50°C incoming air.

Humidity: Up to 95% non-condensing

Storage Temperature: -20° to +85°C

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

Cooling: System provided fans with minimum 400 LFM.



ELECTRICAL SPECIFICATIONS

Input

Input.....36 -72 VDC; 14A Max current;
Inrush Current (72 Vac).....>20 Amps peak
Isolation.....1000VDC (Input to Output)

Susceptibility specifications:

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

Efficiency.....> 73% typical at full load

Input over and under voltage protection

Primary power limiting

Output

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

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

Ripple and Noise < 1% of output voltage

Transient Response...4% Maximum deviation;

Third Wire Current Sharing for 5V and 3.3V outputs.

Drop current sharing for +12V and -12V outputs

MECHANICAL

6.5" L X 1.5" H X 9" W (165 mm X 37 mm X 228 mm)

Status signals and indicators

PS Present

DC Power Good

Output enable control

Output inhibit control

Visual LED indicators identify power supply failure for
replacement. The indicators are:

DC Good

Power Supply Fail



OUTPUT CONNECTOR PIN ASSIGNMENT

Output

Over and under voltage protection – (Latching)
Over current protection (Hiccup)

Self recovery over temperature protection.

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

Minimum Load Rqmt.....See voltage/current rating chart.

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

OVP.....110 – 120% of output voltage

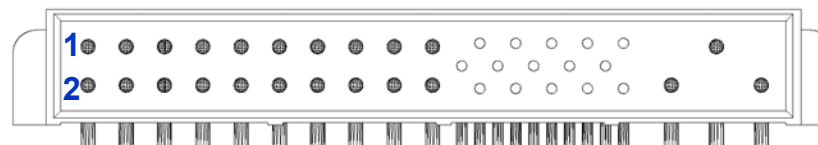
Voltage/Current Rating Chart

Voltage	5.069V	5.074V
Current	40A	3A
Voltage	3.307V	3.313V
Current	32A	2A
Voltage	11.94V	12.19V
Current	10A	0.1A
Voltage	-11.97	-12.1V
Current	4A	0A

PIN #	Description	PIN #	Function
1	+5V	20	Not Used
2	+5V	21	-12V
3	+5V	22*	GND
4	+5V	23	GND
5	GND	24	+5V Sense
6	GND	25*	Enable
7	GND	26	Sense Return
8	GND	27	+3.3V Sense
9	GND	28*	Not Used
10	GND	29	DEG#
11	GND	30	+12V Sense
12	GND	31	Inhibit
13	+3.3V	32	+5V Share
14	+3.3V	33	+3.3V Share
15	+3.3V	34	Not Used
16	+3.3V	35	Fail #
17	GND	36**	Safety Ground
18	+12V	37	-48V Input Return
19	Not Used	38	-48V DC Input

* Pins 22, 25 and 28 are last mate, first break pins.

** Pin 36 is a first mate, last break pin.



Power For The New Technology

