



Model: BPD-C400P-490

Total Power	400 Watts
Input Voltages	36-72 VDC
Outputs	Quad



SPECIAL FEATURES

- CompactPCI® Format
- 36-72 VDC Input
- Redundant operation
- Single wire current sharing
- Diode isolation
- Power good signal
- Enable
- Inhibit
- Remote Sensing
- UL, CUL, and DEMKO Approvals
- CE compliant
- **Custom modifications available**

ENVIRONMENTAL SPECIFICATIONS

Humidity: Up to 95% non-condensing

Storage Temperature: -20° to +85°C

Temperature coefficient: ±0.04% / °C

Ambient Operating Temperature: 0 to +50°C continuous duty, full rating. Derate linearly to 50% of full rating at +71°C.

Cooling: 20-CFM forced air-cooling required.

SAFETY APPROVALS

UL 60950
 CUL 60950
 DEMKO EN60950

CompactPCI® Format

VOLTAGE/CURRENT RATING CHART

Voltage	Minimum	Typical	Maximum	Peak
+5V	2.0A	40A	55A	55A
+3.3V	0A	30A	55A	55A
+12V	0A	10A	14A	15A
-12V	0A	2.0A	4A	5A

ELECTRICAL SPECIFICATIONS

Input Specifications

Input Range..... 36-72 VDC
 EMI filter..... EN55022 Class B, FCC Part 15
 Inrush Current..... 7.2A @ 72 VDC
 Input Current..... 11.8A @ 48 VDC
 Isolation..... 2828 VDC (Input to Output)
 Efficiency..... 81-82% typical
 Switching Frequency..... 120 KHz

Output Specifications

DC Output..... Maximum continuous output power 400 Watts with 20-CFM fan cooling.

Line Regulation..... ±0.1% all outputs

Load Regulation..... ±2% on +5V and +3.3V outputs, ±3% on +12V and -12V outputs.

Ripple and Noise..... 1% Pk to Pk or 50mV whichever is greater.

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ELECTRICAL SPECIFICATIONS (CONT')

Output Specifications

Transient Response..... 2% Maximum deviation; returns to initial condition in 1 msec max.

Long Term Stability.....0.01% after 20 minute warm-up.

OVP.....All outputs

Short-circuit Protection.....Latching method

Overload Protection.....The power supply will shut down when the output power rating exceeds 110% to 130% of maximum rated output current. AC must be recycled to restart the unit.

Diode Isolation..... Internal diode isolation provided for N+1 redundant operation.

Current Sharing.....+5V, +3.3V and +12V outputs will current share within 5% when interconnected by a single wire

Remote Sense.....+5V, +3.3V and +12V outputs only

Power Good.....A TTL high logic signal is provided to Pin P1-42 when the output voltages are within normal operating conditions.

Enable The secondary outputs are enabled by applying a TTL low signal to the P1-27 control pin or tying the P1-27 control pin to output common.

Inhibit The secondary outputs are disabled by applying a TTL low signal to the P1-39 control pin or tying the P1-39 control pin to output common.

Temperature Warning Signal ...A TTL low signal is provided on Pin P1-38 when the internal temperature exceeds normal operating conditions.

CONSTRUCTION

Eurocard 6U x 8HP x 160mm
CompactPCI® format. Front Panel with Extractor handle

OVERALL MECHANICAL DIMENSIONS

6.76"L x 1.59"W x 10.31"H
(171.75mm X 40.3mm X 261.9mm)

PIN ASSIGNMENTS

P1-46	+Vin
P1-47	-Vin
P1-45	Ground
P1-1, 2, 3, 4	+5V
P1-30	+5V +Sense
P1-34	-5V -Sense
P1-29	+5 Adj.
P1-35	+5V CS
P1-13, 14, 15, 16, 17, 18	+3.3V
P1-33	+3.3V +Sense
P1-32	+3.3V Adj.
P1-41	+3.3V CS
P1-20	+12V
P1-36	+12V +Sense
P1-44	+12V CS
P1-21	-12V
P1-5, 6, 7, 8, 9, 10, 11, 12, 19, 24	DC Common
P1-27	Enable
P1-38	Deg
P1-39	Inhibit
P1-42	PG

CONNECTOR

Positronics 47 pin P/N PCIH47M400A1

NOTES

- Specifications subject to change without notice.
- All dimensions in inches/mm
- Warranty: 1 year
- Weight: 3.75lbs. (1.7 kgs)

CompactPCI is a registered trademark of the PCI Industrial Computer Manufacturers Group.

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