

Model: BPA-C250P-490

Total Power	250 Watts
Input Voltages	90-264 VAC
Outputs	Quad

SPECIAL FEATURES

- CompactPCI® Format
- Active Power Factor Correction
- Auto Ranging 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: ±0.02% / °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	25A	33A	33A
+3.3V	0A	18A	33A	33A
+12V	0A	5A	5.5A	6A
-12V	0A	0.5A	1A	1.5A

ELECTRICAL SPECIFICATIONS

Input Specifications

Input Range.....90-264 VAC

Frequency.....47-63 Hz

EMI filter..... EN55022 Class A, FCC Part 15

Inrush Current.....30A @ 230 VAC

Input Current.....2.8A – 1.4A

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

Efficiency.....78-79% typical

Active PFC.....0.95-0.97

Switching Frequency.....120 KHz

Output Specifications

DC Output..... Maximum continuous output power 250 Watts with 20-CFM fan cooling.

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

Load Regulation.....±1-2.0%

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ELECTRICAL SPECIFICATIONS (CONT')

Output Specifications

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

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

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

Hold-Up Time.....5msec minimum

OVP.....All outputs

Short-circuit Protection..... Will withstand a continuous short on any output. Will automatically return to regulation upon removal of short.

Overload Protection.....The overload protection feature will reduce all output voltages to a safe dissipation level when the output power rating exceeds 125% of maximum rated power.

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.

EnableThe 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 3U x 8HP x 160mm
CompactPCI® format. Front Panel with Extractor handle

OVERALL MECHANICAL DIMENSIONS

6.78"L x 1.59W x 5.06"H
(172.1mm X 40.3mm X 128.5mm)

PIN ASSIGNMENTS

P1-46	AC-N
P1-47	AC-L
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

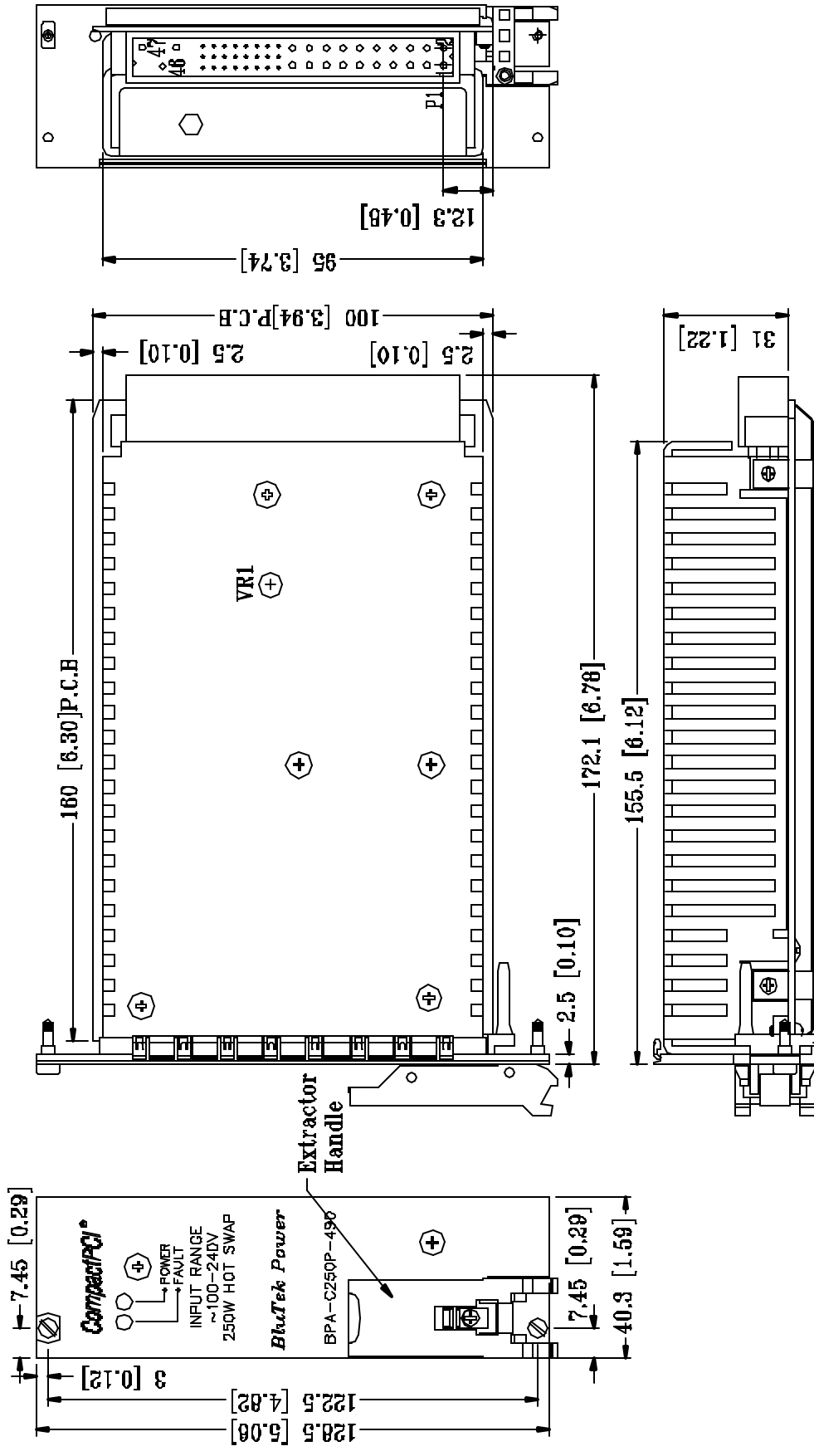
NOTES

- Specifications subject to change without notice.
- All dimensions in inches/mm
- Warranty: 1 year
- Weight: 1.47lbs. (666 grams)

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

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FM-4000-10/REV.D-080502



BluTek Power	
OUTLINE DRAWING	
TITLE	
DRAWN	H. L. LIN
CHECKED	
DRG. NO.	BLU-002
MODEL NO.	BPA-C250P-490

UNIT	mm [inches]	REV. NO.	0.7 : 1	MAT'L	t=
THIRD		TOL.	± 0.2	DATE	10. 16. 2002