CPCI-250Q-P-47

300 Watts (180-264Vac)
250 Watts (90-264Vac)

50 Amps Output Current on +5V & +3.3V

KEY FEATURES:

- 300 Watts in 3U x 8HP (two slots) x 160mm *
- Wide Range AC Input
- Standard CompactPCI Voltages 5V, 3.3V, ±12V
  +5/50A, +3.3/50A, +12V/6A, -12V/2A
- Power Factor Corrected
- N+1 Redundant with Internal Oring Diodes
- Zero Wire Current Sharing on +5V, +3.3V and +12V Outputs
- IEEE 1101.10 Compliant Front Panel with EMI Gasket, Guide Pins, Injector/ Extractor Handles and Keying
- CompactPCI® Specification PICMG 2.11 R1.0
- Rugged Mechanical Design
- One Year Warranty
- Greater than 500,000 Hrs MTBF in Redundancy
- Proudly Made in U.S.A.

* Note: +5V and +3.3V combined output power not to exceed 250 watts.

Switching Power, Inc.
Regulated Power

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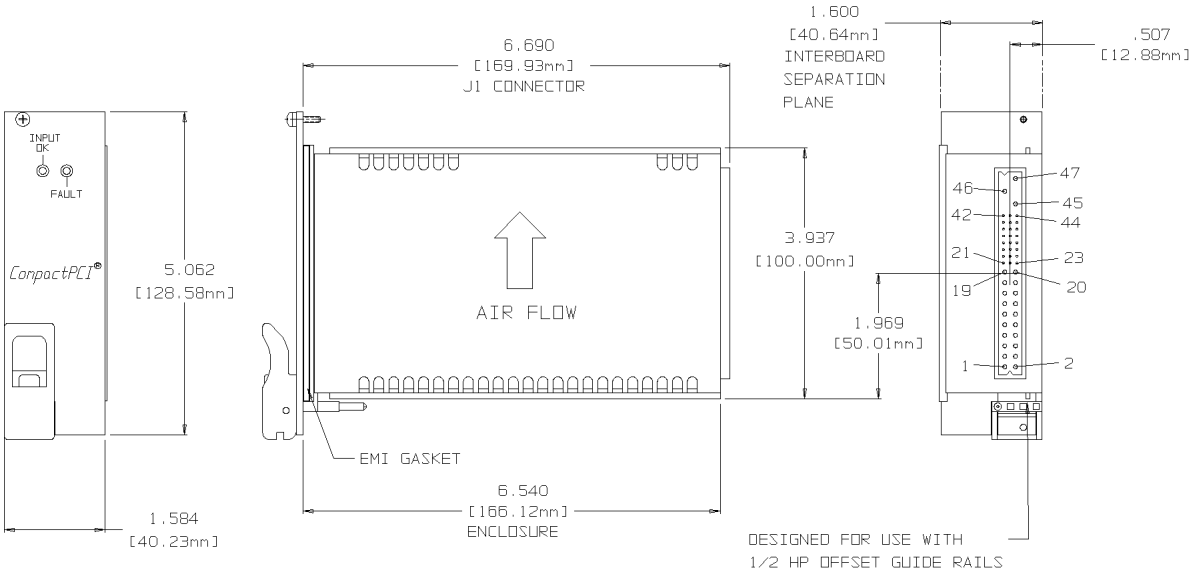

POSITRONIC P/N PCIH47M400A1	
PIN #	SIGNAL
1	+5V
2	+5V
3	+5V
4	+5V
5	RTN
6	RTN
7	RTN
8	RTN
9	RTN
10	RTN
11	RTN
12	RTN
13	+3.3V
14	+3.3V
15	+3.3V
16	+3.3V
17	+3.3V
18	+3.3V
19	RTN
20	+12V
21	-12V
22	RTN
23	N/C
24	-12 RTN
25	GA0
26	N/C
27	ENABLE
28	GA1
29	N/C
30	+5V REMOTE SENSE
31	GA2
32	N/C
33	+3.3V REMOTE SENSE
34	SENSE RTN
35	N/C
36	+12V REMOTE SENSE
37	IPMB_SCLK
38	DEG#
39	INHIBIT
40	IPMB_SDA
41	N/C
42	FAIL
43	IPMB_PWR
44	N/C
45	CHASSIS GND
46	AC-N
47	AC-L

Nominal Input Voltage
115/240 Vac, 3A max.

Frequency
47-63 Hz , 400Hz. available.

Operational Input Voltage Range
90-132 Vac, 250 Watts output
180-264 Vac, 300 Watts output
Power Factor 0.99 Typical at Full Load.
Meets EN 61000-3-2.

Inrush Current
Less than 4 msec. 40 amperes @ 115 Vac or 80 amperes @ 264 Vac.

Brownout Protection:
Holds Regulation to 85 Vac.

Fusing
6.3 Ampere, 250 Vac, internal ceramic body fuse.

Hold up time
20msec minimum after loss of AC Input at full load and any input

Efficiency
70% typical

Turn on time
1 sec max. from power up.

Line and Load Regulation
±2% over AC input range and 0 to 100% load change.

Minimum Load
2A on +5V.

Ripple & Noise
Through 20MHz 1% max. or 50mv whichever is greater for all outputs, peak to peak, with coaxial probe and 0.1uF/10uF capacitors at the connector.

Transient Response
Output maximum excursion of ± 5% for 25% load step. Recovery less than 500 µsec.

Overshoot/Undershoot
No turn-on or turn-off overshoot.

Output Isolation
Isolated from chassis ground, 50Vdc.

Input/Output Isolation
2200 Vdc from input to both chassis/outputs. SELV construction.

Reverse Voltage
Protected against reverse voltage to supply current rating.

Overvoltage Protection
Shutdown at 130% of nominal Vout (V1, V2 & V3). V4 failsafe design. Recycle input power to reset.

Overtemperature Protection
Unit shuts down if overheated. Recycle input to reset.

Leakage Current
1.5mA max at 240Vac.

Current Limiting
All outputs are short circuit protected with foldback overload protection. Auto recovery with overload or short circuit removal.

Paralleling
Two or more supplies can be operated in parallel and will share 5V/3.3V current to within ±10% of each other.

Redundant
Full power N+1 redundant with integral Oring Diodes.

Remote Sense
Compensates for up to 0.3V total distribution voltage drop on the +5V, +3.3V and +12V outputs.

INH#
Open to Run, Contact closure to return, turns off all outputs.

DEG#
Normal logic '1' TTL signal which goes low at least 1 second before over temperature shutdown.

FAIL# Signal
Normal logic '1' TTL signal which goes low whenever the +5V or +3.3V outputs fail, an overtemperature condition, an over voltage shut down, or an AC input failure (5msec warning before outputs go out of regulation).

Indicators
Green LED indicating Input OK, Red LED indicating a power supply fault.

Cooling
400 Lfpm forced air via an external fan.

Operating Temperature
-20°C to 50°C operating temperature with specified air flow.

Stability
All outputs 0.1% for 8 hrs. after 30 minute warm-up.

Humidity
Up to 95% non-condensing.

Storage Temperature
-40°C to 85°C.

Connector
CPCI Standard 47 pin Connector (Positronics Part No.: PCIH47M400A1).

Size
3U x 8HP x 160mm **Weight:** 1.5 lbs.

EMC
Meets EN55022 Level A / FCC Class A conducted.

Safety
Designed to meet: UL 60950, CSA C22.2 No. 60950, & EN60950.

Common Options
Conformal coating (Acrylic or Paylene), ruggedization, increased energy storage & special output configurations. Consult factory.

REV: C