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Find the *Switching Power CPCI-250Q-P-47* at our website: ***Click HERE***

# 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.

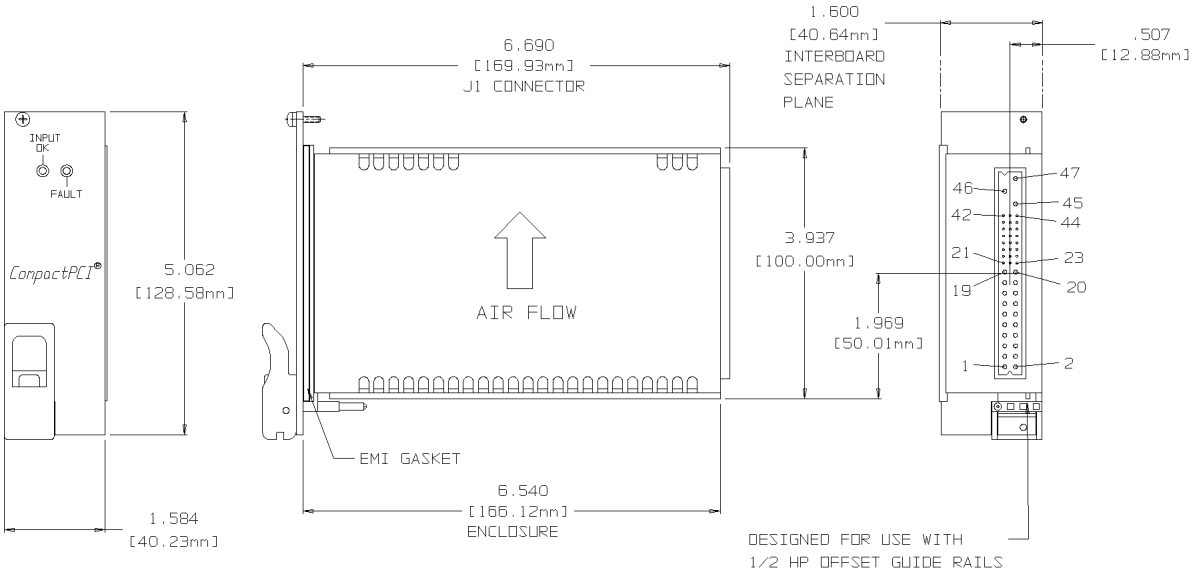
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AS9100 ISO 9001 REGISTERED

# CPCI-250Q-P-47




| 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

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