

# CPCI-350Q-P-47

400 WATTS - 90Amps Combined Output Current on +5V & +3.3V



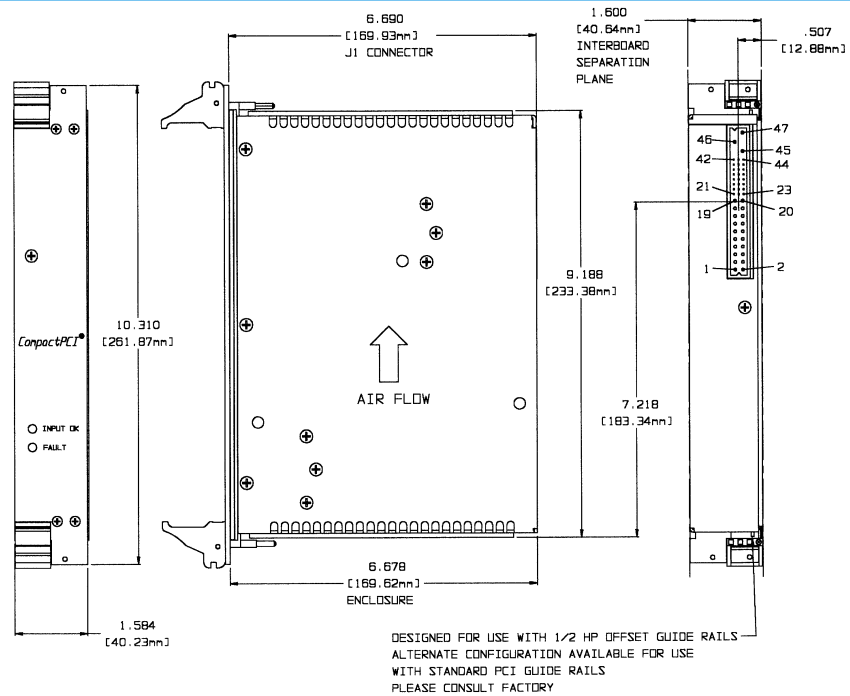
## FEATURES:

- 400 Watts in 6U x 8HP (two slots) x 160mm
- Wide Range AC Input
- Standard PCI Voltages 5V, 3.3V,  $\pm 12V$   
+5/50A, +3.3/40A, +12V/12A, -12V/4A
- 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<sup>®</sup> Specification PICMG 2.11 R1.0
- Ruggedized Mechanical Design
- Two Year Warranty
- Greater than 500,000 Hrs MTBF in Redundancy

# CPCI-350Q-P-47

\* IN PDF FORMAT,  
PRINT OR ZOOM  
TO SEE DRAWING

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



<b>Nominal Input Voltage Frequency</b>	115-240 VAC, 6A max. 47-63 Hz, 400Hz. available.
<b>Operational Input Voltage Range</b>	90-264 VAC Power Factor 0.99 Typical at Full Load. Meets EN 61000-3-2.
<b>Inrush Current</b>	Less than 4 msec. 30 amperes @ 115 VAC or 60 amperes @ 264 VAC.
<b>Brownout Protection:</b>	Holds Regulation to 85 Vac.
<b>Fusing</b>	10 Ampere, 250 VAC, Internal ceramic body fuse.
<b>Hold up time</b>	20msec minimum after loss of AC Input at full load and any input
<b>Efficiency</b>	70% typical
<b>Turn on time</b>	1 sec max. from power up. All output voltages come up within 10msec of each other.
<b>Line and Load Regulation</b>	±2% over AC input range and 0 to 100% load change.
<b>Minimum Load</b>	4% on +5V to provide full load regulation on V2 - V4 outputs.
<b>Ripple &amp; Noise</b>	Through 20MHz 1% max. or 100mv whichever is greater for all outputs, peak to peak, with coaxial probe and 0.1uF/100uF capacitors at the connector.
<b>Transient Response</b>	Output maximum excursion of ± 5% for 50% load step. Recovery less than 500 µsec.
<b>Overshoot/Undershoot</b>	No turn-on or turn-off overshoot.
<b>Output Isolation</b>	Isolated from chassis ground, 50Vdc.
<b>Input/Output Isolation</b>	2200 VDC from input to both chassis/outputs. SELV construction.
<b>Reverse Voltage</b>	Protected against reverse voltage to supply current rating.
<b>Overvoltage Protection</b>	Shutdown at 130% of nominal Vout (V1& V2). V3/V4 failsafe design. Recycle input power to reset.
<b>Overtemperature Protection</b>	Unit shuts down if overheated. Recycle AC to reset.
<b>Leakage Current</b>	1.0mA max at 240Vac.

<b>Current Limiting</b>	All outputs short circuit protected with foldback protection. Automatic recovery upon removal of the short.
<b>Paralleling</b>	Two or more supplies can be operated in parallel and will share 5V/3.3V/12V current to within 10% of each other.
<b>Redundant</b>	Full power N+1 redundant with integral Oring Diodes.
<b>Remote Sense</b>	Compensates for up to 0.5V total distribution voltage drop on the +5V, +3.3V and +12V outputs.
<b>INH#</b>	Open to Run, Contact closure to return, turns off all outputs.
<b>DEG#</b>	Normal logic '1' TTL signal which goes low 10°C before over temperature shutdown.
<b>FAIL# Signal</b>	Normal logic '1' TTL signal which goes low whenever any of the four outputs fail, an overtemperature condition, an over voltage shut down, or an AC input failure (5msec warning before outputs go out of regulation).
<b>Indicators</b>	Green LED indicating Input OK, Red LED indicating a power supply fault.
<b>Cooling</b>	400 Lfpm forced air required through power supply.
<b>Operating Temperature</b>	-20°C to 50°C operating temperature with specified air flow.
<b>Stability</b>	All outputs 0.1% for 8 hrs. after 30 minute warm-up.
<b>Humidity</b>	Up to 95% non-condensing.
<b>Storage Temperature</b>	-40°C to 85°C.
<b>Connector</b>	Positronics Part No. PCIH47M400A1
<b>Size</b>	6U x 8HP x 160mm <b>Weight:</b> 4 lbs.
<b>EMC</b>	Meets EN55022 Level A / FCC Class A conducted.
<b>Safety</b>	UL 1950, CSA C22.2 No. 950, EN60950.

REV: F