

CPCI-350Q-DC-47

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



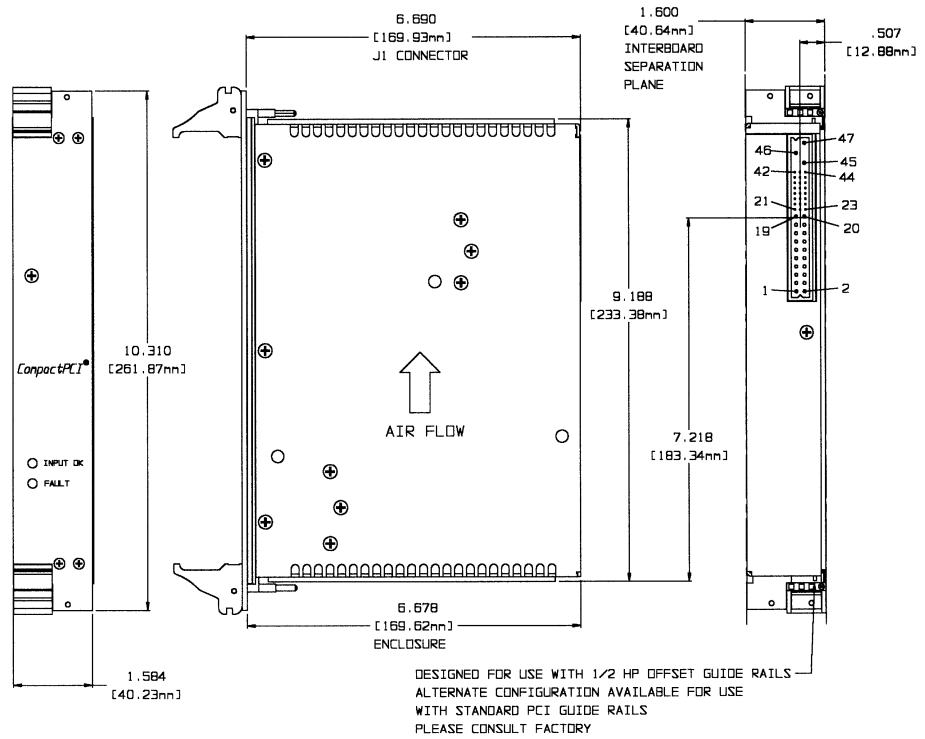
FEATURES:

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

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* 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	+DC IN
23	N/C	47	-DC IN
24	-12V RTN		



Nominal Input Voltage	-48 VDC, 14A max.	Paralleling	Two or more supplies can be operated in parallel and will share 5V/3.3V/12V current to within 10% of each other.
Operational Input Voltage Range	-36 to -75 VDC Transients to 140V for 2sec.	Redundant	Full power N+1 redundant with integral Oring Diodes.
Inrush Current	Less than 5 msec. 80 amperes @ 48 VDC	Remote Sense	Compensates for up to 0.5V total distribution voltage drop on the +5V, +3.3V and +12V outputs.
Fusing	25 Ampere, 125 VDC, Internal ceramic body fuse.	INH#	Open to Run, Contact closure to return, turns off all outputs.
Hold up time	5msec minimum after loss of DC Input at full load and any input	DEG#	Normal logic '1' TTL signal which goes low 10°C before over temperature shutdown.
Efficiency	70% typical	FAIL# Signal	Normal logic '1' TTL signal which goes low whenever any of the four outputs fail, an overtemperature condition, an over voltage shut down.
Turn on time	1 sec max. from power up. All output voltages come up within 10msec of each other.	Indicators	Green LED indicating Input OK, Red LED indicating a power supply fault.
Line and Load Regulation	±2% over DC input range and 0 to 100% load change.	Cooling	400 Lfpm forced air required through power supply.
Minimum Load	10% on +5V to provide full load regulation on V2 - V4 outputs.	Operating Temperature	-20°C to 50°C operating temperature with specified air flow.
Ripple & Noise	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.	Stability	All outputs 0.1% for 8 hrs. after 30 minute warm-up.
Transient Response	Output maximum excursion of ± 5% for 50% load step. Recovery less than 500 µsec.	Humidity	Up to 95% non-condensing.
Overshoot/Undershoot	No turn-on or turn-off overshoot.	Storage Temperature	-40°C to 85°C.
Output Isolation	Isolated from chassis ground, 50Vdc.	Connector	Positronics Part No. PCIH47M400A1
Input/Output Isolation	1500 VDC from input to both chassis/outputs. SELV construction.	Size	6U x 8HP x 160mm Weight: 4 lbs.
Reverse Voltage	Protected against reverse voltage to supply current rating.	EMC	Meets EN55022 Level A / FCC Class A conducted.
Overvoltage Protection	Shutdown at 130% of nominal Vout (V1& V2). V3/V4 failsafe design. Recycle input power to reset.	Safety	UL 1950, CSA C22.2 No. 950, EN60950.
Overtemperature Protection	Unit shuts down if overheated. Recycle DC to reset.		
Current Limiting	All outputs short circuit protected with foldback protection. Automatic recovery upon removal of the short.		

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