

# CPCI-210Q-DC-47

200 WATTS - Rugged 24/28VDC Input



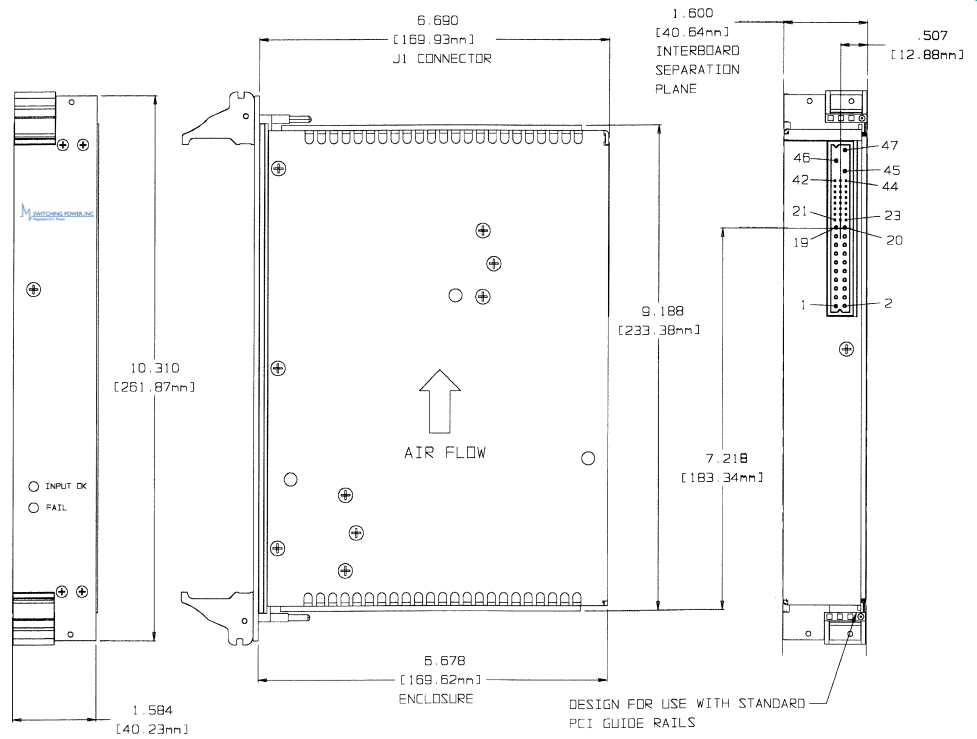
## FEATURES:

- 200 Watts in 6U x 8HP (two slots) x 160mm
- Wide Range DC Input (18-40Vdc)
- Standard PCI Voltages 5V, 3.3V,  $\pm 12V$   
+5/40A, +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

# CPCI-210Q-DC-47

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

POSITRONIC P/N PCIH47M400A1-303.0			
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	-12 RTN		



<b>Nominal Input Voltage</b>	24/28VDC, 14A max.	<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>Operational Input Voltage Range</b>	-18 to -40 VDC Transients to 75V for 2sec.	<b>Redundant</b>	Full power N+1 redundant with integral Oring Diodes.
<b>Inrush Current</b>	Less than 5 msec. 80 amperes @ 28 VDC	<b>Remote Sense</b>	Compensates for up to 0.5V total distribution voltage drop on the +5V, +3.3V and +12V outputs.
<b>Fusing</b>	25 Ampere, 125 VDC, Internal ceramic body fuse.	<b>INH#</b>	Open to Run, Contact closure to return, turns off all outputs.
<b>Hold up time</b>	1msec minimum after loss of DC Input at full load and any input	<b>DEG#</b>	Normal logic '1' TTL signal which goes low 10°C before over temperature shutdown.
<b>Efficiency</b>	60% typical	<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.
<b>Turn on time</b>	1 sec max. from power up. All output voltages come up within 10msec of each other.	<b>Indicators</b>	Green LED indicating Input OK, Red LED indicating a power supply fault.
<b>Line and Load Regulation</b>	±2% over DC input range and 0 to 100% load change.	<b>Cooling</b>	15 cfm/400 Lfpm forced air required through power supply.
<b>Minimum Load</b>	4% on +5V to provide full load regulation on V2 - V4 outputs.	<b>Turn On &amp; Operating Temperature</b>	-40°C to 50°C operating temperature with specified air flow.
<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>Stability</b>	All outputs 0.1% for 8 hrs. after 30 minute warm-up.
<b>Transient Response</b>	Output maximum excursion of ± 5% for 50% load step. Recovery less than 500 µsec.	<b>Humidity</b>	Up to 95% non-condensing.
<b>Overshoot/Undershoot</b>	No turn-on or turn-off overshoot.	<b>Storage Temperature</b>	-40°C to 85°C.
<b>Output Isolation</b>	Isolated from chassis ground, 50Vdc.	<b>Connector</b>	Positronics Part No. PCIH47M400A1
<b>Input/Output Isolation</b>	1500 VDC from input to both chassis/outputs. SELV construction.	<b>Size</b>	6U x 8HP x 160mm <b>Weight:</b> 4 lbs.
<b>Reverse Voltage</b>	Protected against reverse voltage to supply current rating.	<b>EMC</b>	Meets EN55022 Level A / FCC Class A conducted.
<b>Overvoltage Protection</b>	Shutdown at 130% of nominal Vout (V1& V2). V3/V4 failsafe design. Recycle input power to reset.	<b>Safety</b>	Meets UL 1950, CSA C22.2 No. 950, EN60950.
<b>Overtemperature Protection</b>	Unit shuts down if overheated. Recycle DC to reset.		
<b>Current Limiting</b>	All outputs short circuit protected with foldback protection. Automatic recovery upon removal of the short.		

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