CPCI-350Q-P-38

CompactPCI Power Supply
400 Watts (90-264Vac Input)

90 Amps Combined Output Current on +5V & +3.3V

KEY FEATURES:

- 400 Watts in 6U x 8HP (two slots) x 160mm
- Wide Range AC Input (90-264Vac)
- Standard CompactPCI Voltages; 5V, 3.3V, ±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
- PICMG CompactPCI® Existing Practice Compliant "APPENDIX B"
- Ruggedized Mechanical Design
- One Year Warranty
- Greater than 500,000 Hrs MTBF in Redundancy
- Proudly Made in U.S.A.

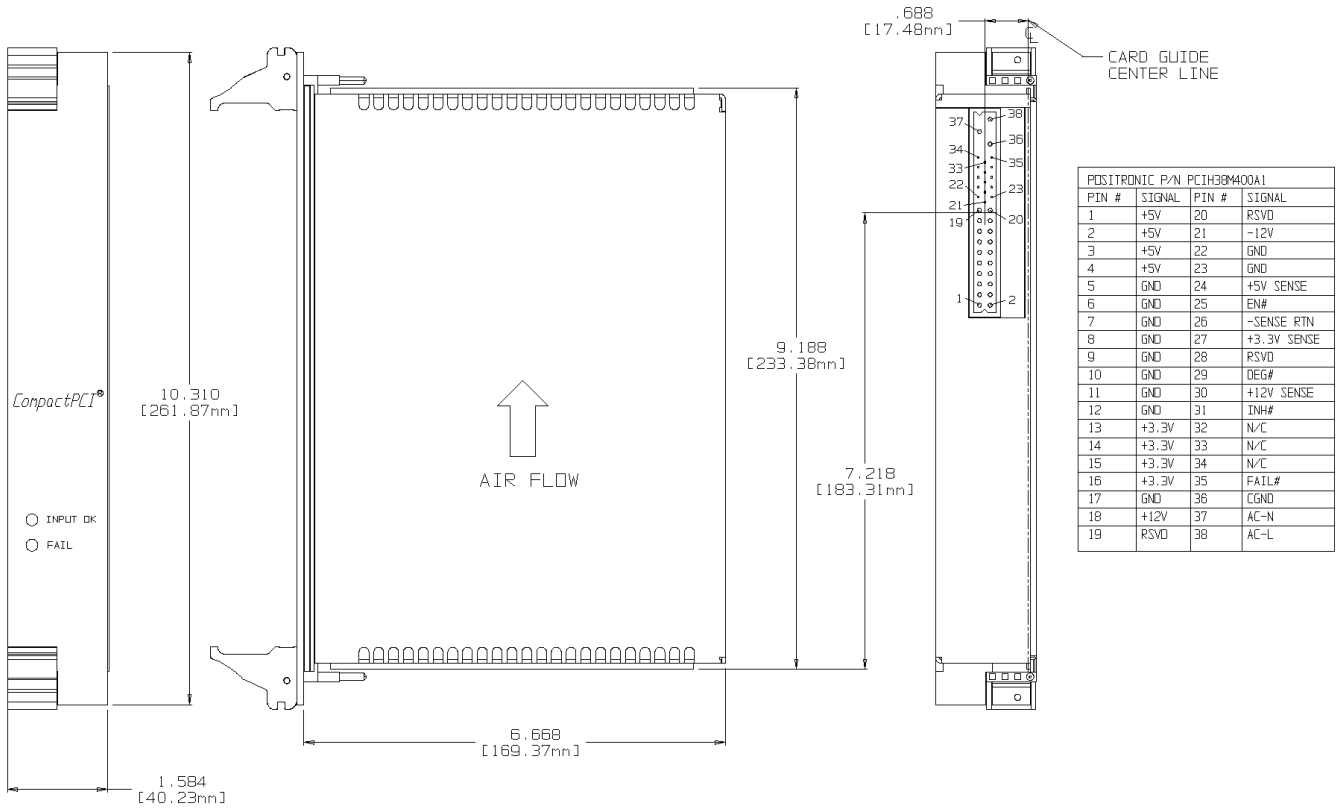
Switching Power, Inc.
Regulated Power

3601 Veterans Highway
Ronkonkoma, New York 11779
Tel: 631-981-7231 Fax: 631-981-7266

visit us at:
switchpwr.com

AS9100 ISO 9001 REGISTERED

CPCI-350Q-P-38



POSITRONIC P/N PCIH38M400A1

PIN #	SIGNAL	PIN #	SIGNAL
1	+5V	20	RSVD
2	+5V	21	-12V
3	+5V	22	GND
4	+5V	23	GND
5	GND	24	+5V SENSE
6	GND	25	EN#
7	GND	26	-SENSE RTN
8	GND	27	+3.3V SENSE
9	GND	28	RSVD
10	GND	29	DEG#
11	GND	30	+12V SENSE
12	GND	31	INH#
13	+3.3V	32	N/C
14	+3.3V	33	N/C
15	+3.3V	34	N/C
16	+3.3V	35	FAIL#
17	GND	36	CGND
18	+12V	37	AC-N
19	RSVD	38	AC-L

Nominal Input Voltage Frequency
115-240 Vac, 6A max.
47-63 Hz, 400Hz available.

Operational Input Voltage Range
90-264 Vac.
Power Factor 0.99 Typical at Full Load.
Meets EN 61000-3-2.

Inrush Current
Less than 4 msec. 30 amperes @ 115 Vac or 60 amperes @ 264 Vac.

Brownout Protection:
Holds Regulation to 85 Vac.

Fusing
10 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. All output voltages come up within 10msec of each other.

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

Minimum Load
4% on +5V output to provide full load regulation on secondary outputs (V2 - V4).

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.

Transient Response
Output maximum excursion of ± 5% for 50% 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 AC to reset.

Leakage Current
1.0mA max at 240Vac.

Current Limiting
All outputs short circuit protected with foldback protection. Automatic recovery upon removal of the short.

Paralleling
Two or more supplies can be operated in parallel and will share 5V/3.3V/12V current to within ±10% of each other.

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

Remote Sense
Compensates for up to 0.5V 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 10°C before over temperature shutdown.

FAIL# Signal
Normal logic '1' TTL signal which goes low whenever any output fails, 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 required through the power supply.

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 38 pin Connector (Positronics Part No.: PCIH38M400A1).

Size
6U x 8HP x 160mm

Weight:
4 lbs.

EMC
Meets EN55022 Level A / FCC Class A conducted.

Safety
UL 60950, CSA C22.2 No. 60950 & EN 60950.

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