



CPCI175 Series

Industry Standard Compact PCI Power Supplies



- ◆ AC or DC input versions in same package size
- ◆ Universal Range Input Voltage with PFC
- ◆ Hot swap capable power supplies
- ◆ Active current share for paralleling power supplies
- ◆ P47 Connector for use in PICMG 2.11 compatible systems

Key Market Segments & Applications

Enclosure Manufacturers	Industrial Automation Equipment Backplanes PCI/ISA VME Enclosures
IT/Telephony	Internet Telephony Equipment Intelligent Peripherals and Service Nodes, Wireless, Computer Telephony Integration, Customer Premise Equipment, Voice over IP

CPCI Features and Benefits

Feature	Benefit
◆ Wide Range of Input Voltages with PFC	◆ Ensures continuous operation during input surges & sags - supports global op.
◆ AC or DC Inputs in Same Package Size	◆ Minimizes system mechanical costs
◆ Hot Swap Capability	◆ Increases system uptime during routine maintenance
◆ P47 Connector	◆ Capatable to PICMG2.11 Systems
◆ Active Current Share	◆ Ensures equal current sharing between supplies
◆ High Quality Components	◆ Increased reliability
◆ High Efficiency	◆ Reduces system heating and internal power supply losses

Specifications

ITEMS	MODEL	CPCI175P47				CPCI175HP47				CPCI175MP47			
		V1	V2	V3	V4	V1	V2	V3	V4	V1	V2	V3	V4
Output Voltage	(2) V	+5	+3.3	+12	-12	+5	+3.3	+12	-12	+5	+3.3	+12	-12
Minimum load	A	2	0	0	0	2	0	0	0	2	0	0	0
Output Current with air	(1) A	25	25	3	1	25	25	3	1	25	25	3	1
Maximum Power	W	175				175				175			
Efficiency (typical)	-	75% @ 240VAC, 75% @ 48VDC, 72% @ 24VDC											
Input Voltage	V	90-264VAC (47-63Hz)				36-72VDC				18-36VDC			
Connector	-	P47 Style											
Inrush Current	A	<40											
Hold up Time, AC Input Only	ms	>16											
Rise time	-	<500ms from AC power up. All output voltages come up within 10 ms of ea. other											
Output Power (maximum)	-	175W, Combined current on +5 & +3.3V outputs not to exceed 27A.											
Output Voltage Adjustment	-	+/-10% on 5V & 3.3V using pins 29 & 32											
Remote Sense	-	5 & 3.3V outputs											
Load Regulation	-	+5V: ±1%; +3.3V, +12V & -12V: ±3% (10% - 100% load)											
Line Regulation	-	±0.3%											
EMI	-	EN55022 Class A Radiated and Conducted											
Overvoltage protection	-	120% of nominal, recycle AC to reset											
Operating Temperature Range	-	Full power from 0°C-40°C w/ 15 CFM forced air flow, derate linearly to 50% load at 70°C Shutdown when internal heatsink temperature reaches 95°C, automatic recovery.											
Over Current Protection	-	All outputs protected against overload and short circuit.											
Indicators	-	Green LED indicating Input O.K. Red LED indicating power supply fault.											
Safety Agency Approvals	-	UL1950, CSA C22.2 No. 950, EN60950, CE Mark											
Size and Weight	-	3U, 8HP; 0.85kg											

1: Combined current on +5 & +3.3V outputs not to exceed 27A @ 15 CFM

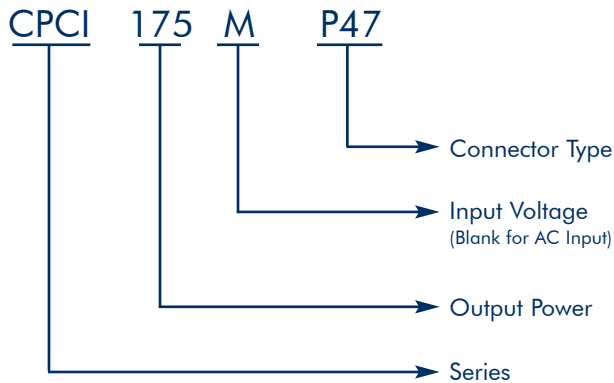
2: Remote adjustable ±10% using appropriate VADJ pins. Pull to + output for -10%, - output for +10%

CPCI Pinouts

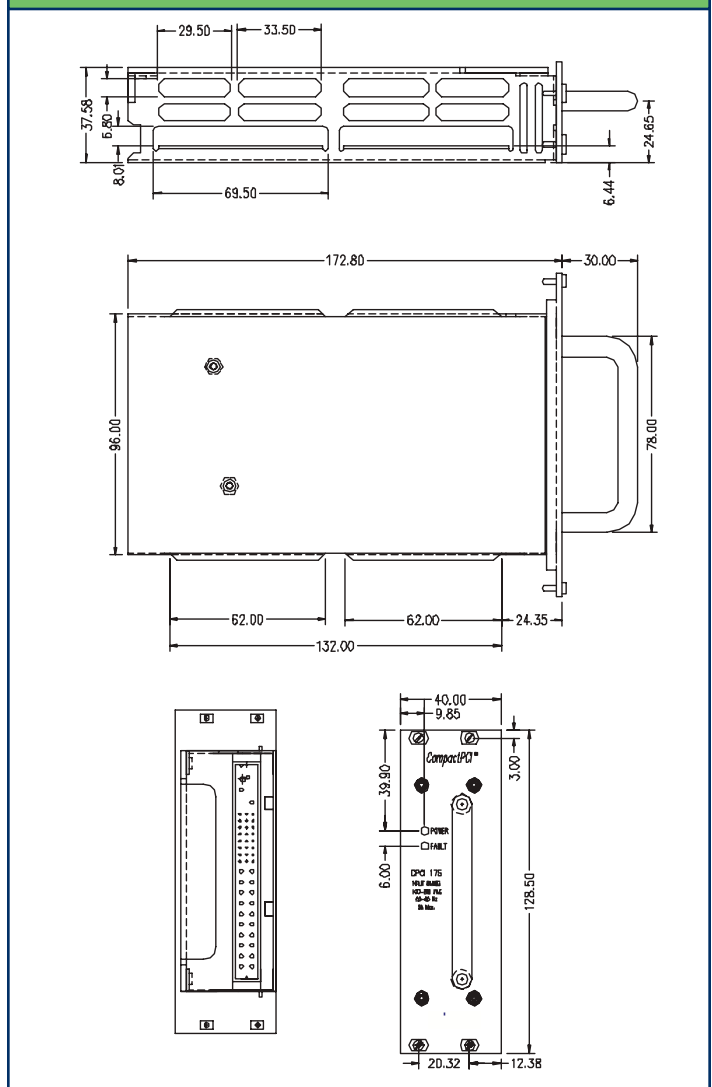
Pin	Designation	Pin	Designation
1	+5V	25	GA 0
2	+5V	26	Not Used
3	+5V	27*	Enable
4	+5V	28	GA 1
5	5V & 3.3V RTN	29	5V ADJ
6	5V & 3.3V RTN	30	+5V Sense
7	5V & 3.3V RTN	31	GA 2
8	5V & 3.3V RTN	32	3.3V ADJ
9	5V & 3.3V RTN	33	+3.3V Sense
10	5V & 3.3V RTN	34	Sense Return
11	5V & 3.3V RTN	35	5V Share
12	5V & 3.3V RTN	36	Not Used
13	+3.3V	37	Not Used
14	+3.3V	38	DEG#
15	+3.3V	39	Inhibit
16	+3.3V	40	Not Used
17	+3.3V	41	3.3V Share
18	+3.3V	42	Fail#
19	+12V RTN	43	Not Used
20	+12V	44	Not Used
21	-12V	45**	Safety Ground
22	Signal RTN	46	AC Neutral / +DC In
23	Not Used	47	AC Line / -DC In
24	-12V RTN		

* Pin 27 is a last mate, first break pin.
** Pin 45 is a first mate, last break pin.

CPCI Series Model Number Example



Outline Drawing



For Additional Information, please visit
www.lambdapower.com/products/compact-pci-ac.htm