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Find the *Jasper Electronics PCI204* at our website: ***Click HERE***

(B)

JASPER ELECTRONICS
1580 No. Kellogg Dr.
Anaheim, Ca., 92807
Ph: (714) 917-0749
Fax: (714) 917-0786
Email: Sales@jasperelectronics.com
Web: www.jasperelectronics.com

CompactPCI®

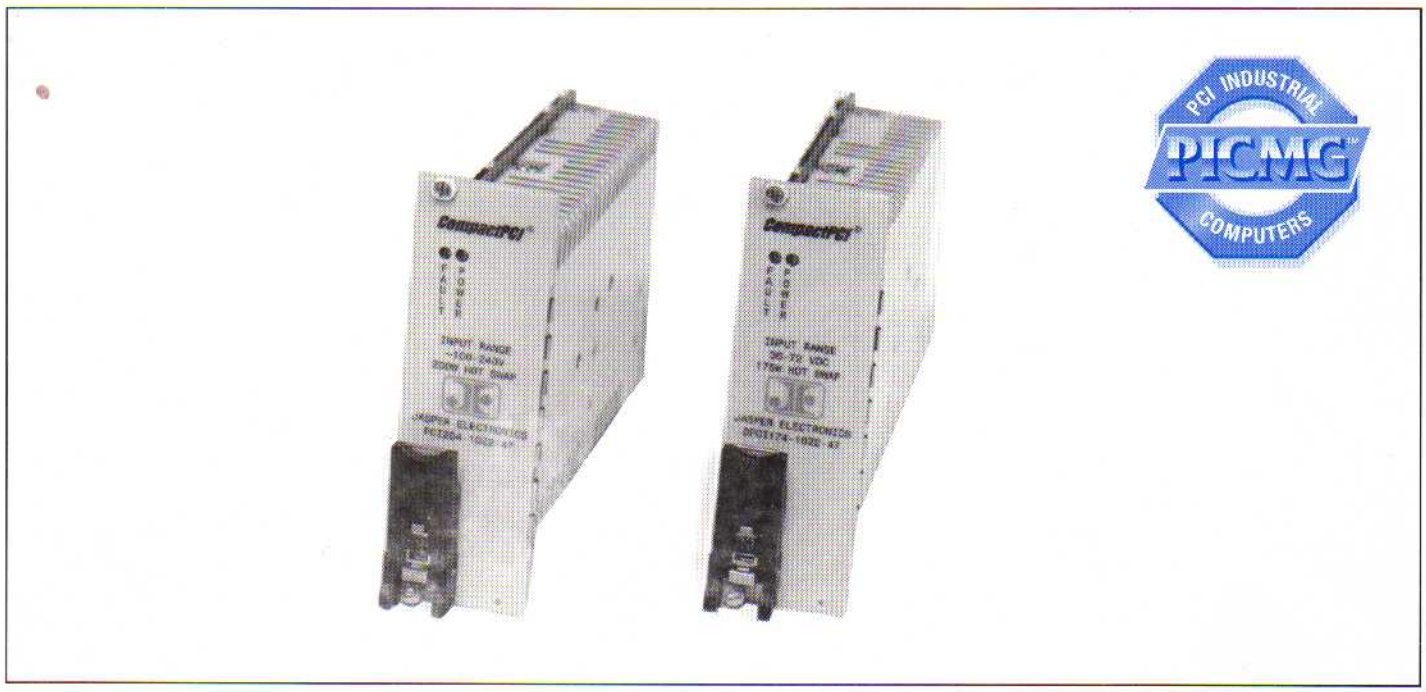
175 and 200 Watt

Power Supplies

(PICMG® COMPLIANT*)

Features:

- ✓ Standard PCI Output Voltages: 5.0V, 3.3V, ±12.0V, with Variable Currents.
- ✓ Hot Swap, N+1 Redundant with Internal OR-ing Diodes.
- ✓ .99 Power Factor Corrected AC 90-264V Input, or DC 36-72V.
- ✓ Current Sharing on 5.0V and 3.3V Outputs.
- ✓ Standard 47 Pin or 32 Pin DIN Connector Configurations.
- ✓ Custom Configurations To Meet User Specified Requirements.
- ✓ Excellent Performance, Competitively Priced.
- ✓ 2 Year Warranty.
- ✓ Complies With All Requirements Of PICMG Power Interface Specifications.
- ✓ cULus, TUV, CE Marked.



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Cat.# 02127-002 L

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GENERAL PRODUCT SPECIFICATIONS:

-INPUT-

Voltage/Current.....AC 90-264V, 3.2A max, 47-63Hz, 1 Phase; or, DC 36-72, 7.9A.

Fusing.....Internal line fuse provided, non-user serviceable. AC- 3.15A, 250V; DC- 10.0A.

Power Factor .....0.99 line PFC typical at AC 115V, full load.

Inrush Current.....Thermistor soft start. ~25°C AC cold start current 15Apk @ AC 115V; 30Apk @ AC 230V.

Transient Protection.....MOV. Withstands transients as specified by IEEE C62.41 3KV (differential and common mode).

EMI Filtering.....Meets IFCC Level B, and EN 55022 Level B (conducted).

Efficiency .....70% typical at AC 115V, full load.

Redundant/Hot Swap.....Full power N+1 redundant, hot swap capable.

-OUTPUTS-

Voltage/Current (V/A)	V1	V2	V3	V4
Model: **PCI174-1022**	5.0/25,	3.3/20,	+12/6.0,	–12/1.0.

Total loading on all outputs not to exceed 175W.
Combined load on V1 + V2 not to exceed 30A.
(**DPCI174** DC input model output ratings identical to AC version.)

Model: **PCI204-1022**	5.0/30,	3.3/25,	+12/6.0,	–12/1.0.

Total loading on all outputs not to exceed 200W.
Combined load on V1 + V2 not to exceed 38A.

Model: **DPCI204-1022**	5.0/33,	3.3/33,	+12/6.0,	–12/1.0.

Total loading on all outputs not to exceed 200W.
Combined load on V1 + V2 not to exceed 38A.

Line Regulation.....At the Sense Point, Over Full Input Range <±1%, sense leads connected.

Load Regulation.....Output voltage droops with increasing load.

Minimum Loading .....5% minimum on V1.

Stability .....Output drift <±0.2% after 20 minute warm-up.

Temp. Coefficient.....<±0.02%/°C, 0° - 50°C, after 20 minute warm-up.

Dynamic Response.....Less than 3% deviation with a 25% load change at 1A/µsec. Output returns to within 1% in less than 300µsec.

Ripple and Noise (PARD) .....For all outputs, 50mV max or 1% peak-to-peak nominal, which ever is greater, DC to 20MHz bandwidth with a coaxial probe and 0.1µF/22µF capacitors at the output terminals.

Current Sharing/ Parallel N+1 Operation ...V1, V2, V3 Outputs. Droop method standard. Optional single wire design in development. Consult factory for availability.

Remote Sense.....V1, V2, V3 outputs compensate for up to 0.25V total line drop in the load cables. Outputs are internally sensed if leads are opened.

Hold-Up Time.....Outputs remain in regulation >15msec minimum following loss of AC power at low line, full load.

Over Current/Short Circuit Protection .....Current limit on all outputs. Automatic recovery when overload is removed.

Over Temperature Protection.....Internal temperature sensing. Causes all outputs to shut down. Automatic recovery.

Over/Under Shoot.....None at turn-on or turn-off.

Under Voltage Warning ..Any output dropping below 10% of nominal triggers the power fail warning signal.

Over Voltage Protection.....Non-crowbar type. Any output that exceeds 25% ±10% of nominal Vout will cause all outputs to latch off. Remote inhibit, enable or input recycle required to reset.

-SIGNALS, INDICATORS and CONTROLS-

Remote Enable .....Enabled by closed circuit or TTL logic 0. Disabled by open circuit or TTL logic 1.

Remote Inhibit.....Enabled by open circuit or TTL logic 1. Disabled by closed circuit or TTL logic 0.

Power Fail Warning .....Loss of input AC causes a TTL compatible signal to go low >4msec prior to any output dropping out of regulation. At AC turn-on, signal stays low until all outputs are in regulation. PF signal also triggered by an under voltage condition on any output.

LED Indicator.....Dual LEDs. Green indicates input power ON and outputs within regulation. Off or Amber indicates input and/or output power fault.

-OPERATING ENVIRONMENT-

Operating Temperature ..0° – 50°C ambient at full load, with specified airflow. Derates linearly to 50% at 70°C.

Cooling.....A minimum of 15 cfm / 400 lfm direct forward airflow required to achieve full rated power and specified MTBF. Consult factory for derating guidelines with reduced or reversed airflow.

Relative Humidity.....Up to 90% RH, non-condensing.

Operational Vibration .....0.75G peak, 5 – 500Hz along three orthogonal axis.

Storage Temperature.....-40° to 85°C.

Altitude.....Operating to 10,000 ft; Storage to 30,000 ft.

MTBF.....Designed for 150,000 hrs at 25°C.

-INTERCONNECT-

I/O Connectors. Refer to JE Outline Configuration Drawing #02102-000 or the chart in this catalog for pin function identification-

47 Circuit .....Positronic Ind. P/N PCIH47M400A1. Mates with PI P/N PCIH47F300A1.

32 Circuit (AC only).....Contact factory.

Note: Use of the specified mating connector is required to insure proper "make/break" sequential contact sequence.

-MECHANICAL-

Outline .....3U x 8HP front panel. Refer to JE Outline Dwg #02102-000 or the Mechanical Outline in this catalog. Complies with all current PICMG® CompactPCI PSU specifications.

Retaining Latches.....Supplied with a single Rittal #3686.135 Type VII (Telecom) Lower Latch. Other manufacturers and types available. Consult factory.

Guide Rails .....Supplied with .260[6.61] offset guide rails for use with Rittal 3687.832 (or equivalent) PSU guides.

Front Panel Overlay.....Supplied with Lexan overlay and JE Logo. May be deleted, or supplied with customer specified logo or other information. Consult factory.

Weight.....Approx: 1.8 lbs / 1.06 kgs.

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-SAFETY-

All Models ..... Recognized to U.S. and Canadian Bi-National Standard CSA C22.2 No. 60950 / UL 60950, Third (3rd) Edition (cULus); TUV approved to TUV EN60950/A1-A4/A11. CE Marked. CB Reports available on request.

32 Pin DIN I/O Connector Functions:

PIN#	SEQ(1)	FUNCTION	
2B	2	Input Pwr	Line (L) AC Power Input.
5B	2	Input Pwr	Neutral (N) ACC Power Input.
8B		N/C	No Connection.
11B	**1**	PE	Protective Earth (chassis) Ground.
13A	2	N/C	No Connection.
13-18B	2	+3.3V	V2 Output.
13C	**3**	R/EN	Remote Enable. Close circuit to GND.
14A	2	R/INH	Remote Inhibit. Close circuit to GND.
14C	2	DEG	Thermal Degrade Signal.
15A	2	N/C	No Connection.
15C	2	PF	Power Fail Signal.
16A	2	S-RTN	Sense Return.
16C	2	N/C	No Connection.
17A	2	+S1	+5.0V (V1) Remote Sense.
17C	2	N/C	No Connection.
18A	2	+S2	+3.3V (V2) Remote Sense.
18C	2	N/C	No Connection.
19A,C	2	N/C	No Connection.
19B	2	+12.0V	V3 Output.
20A,C	2	N/C	No Connection.
20B	2	-12.0V	V4 Output.
22B	2	+5.0V	V1 Output.
25B	2	DC Com	DC Common Return.
28,31B		N/C	No Connection.

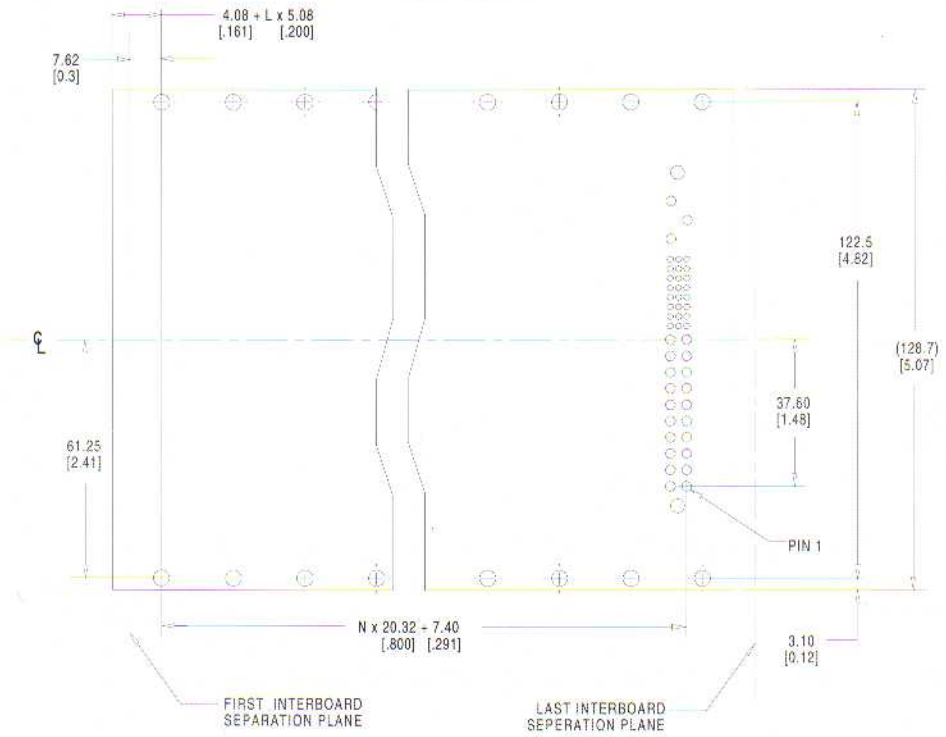
47 Pin I/O Connector Functions:

PIN#	SEQ(1)	FUNCTION	
01-04	2	+5.0V	V1 Output.
05-12	2	GND	V1+V2 Return.
13-18	2	+3.3V	V2 Output.
19	2	GND	V3 Return.
20	2	+12.0V	V3 Output.
21	2	-12.0V	V4 Output.
22	2	RTN	Signal Return.
23	2	N/C	No Connection (Reserved).
24	2	GND	V4 Return.
25,26	2	N/C	No Connection (Reserved).
27	**3**	R/EN	Remote Enable. Close circuit to GND.
28,29	2	N/C	No Connection (Reserved).
30	2	+S1	+5.0V (V1) Remote Sense.
31,32	2	N/C	No Connection (Reserved).
33	2	+S2	+3.3V (V2) Remote Sense.
34	2	S-RTN	Sense Return for V1, V2, V3.
35	**3**	ISHR-1	+5.0V (V1) Current Share (Option C).
36	2	+S3	+12.0V (V3) Remote Sense.
37	2	N/C	No Connection (Reserved).
38	2	DEG	Thermal Degrade Signal.
39	2	R/INH	Remote Inhibit. Close circuit to GND.
40	2	N/C	No Connection (Reserved).
41	**3**	ISHR-2	+3.3V (V2) Current Share (Option C).
42	2	PF	Power Fail Signal.
43	2	N/C	No Connection (Reserved).
44	**3**	ISHR-3	+12.0V (V3) Current Share (Option C).
45	**1**	PE	Protective Earth (chassis) Ground.
46	2	Input Pwr	PCI: Neutral (N) ACC Power Input DPCI: +DC.
47	2	Input Pwr	PCI: Line (L) AC Power Input. DPCI: -DC.

(1) Contact mating sequence. 1= First to make/Last to break.

Backplane Connector Locations, Viewed from the Front of the Enclosure

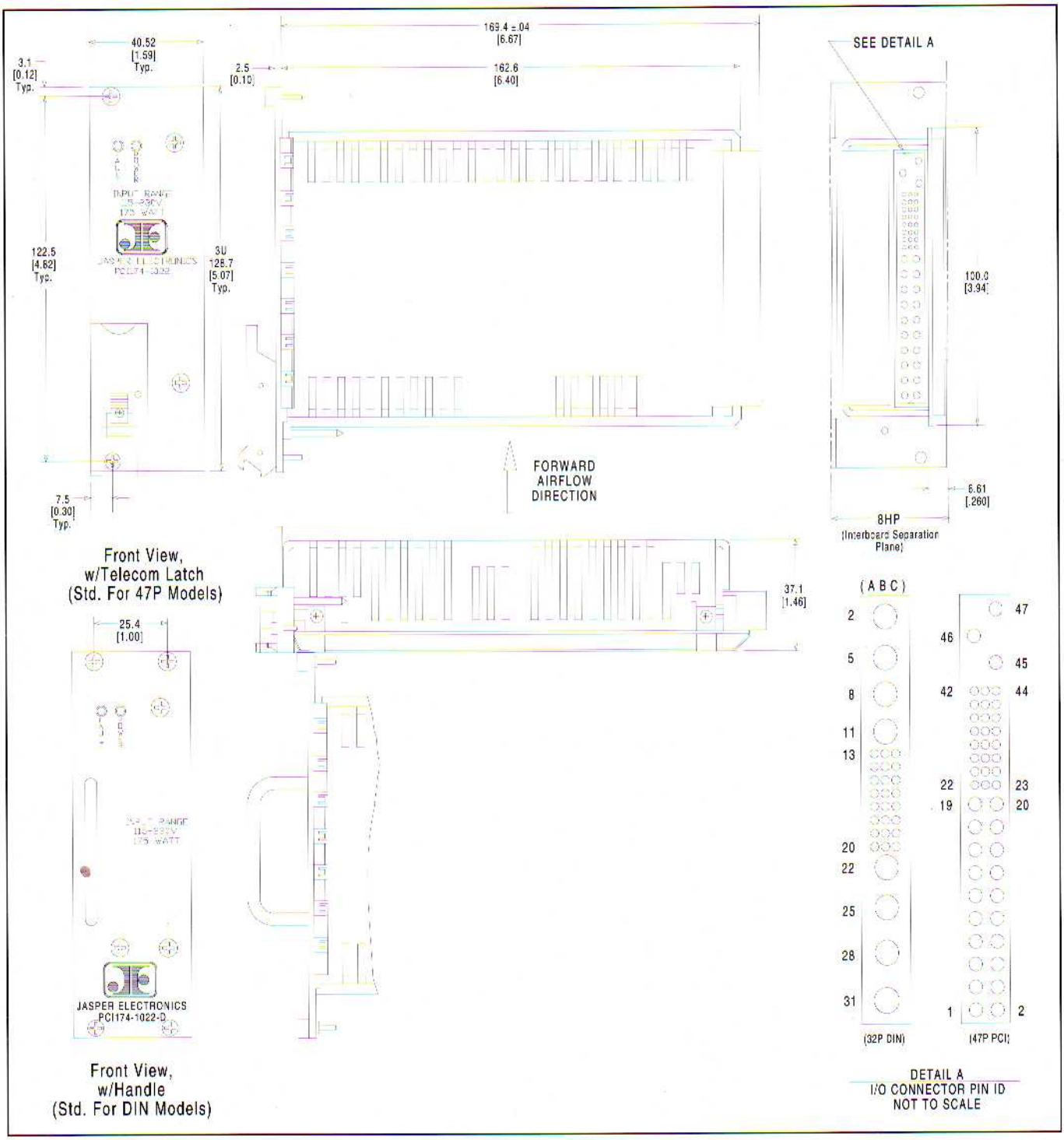
(Not to Scale)



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Mechanical Outline

(Dimensions in millimeters [inches])



-LIMITED WARRANTY POLICY-

All Jasper Electronics (JE) standard model power supplies and products are guaranteed to be free of defects in workmanship and materials for a minimum of two (2) years from the date of original shipment, when operated within specification. This warranty applies only to defects that result in a failure to perform to published specifications. Non-standard (custom) power supplies and products may be warranted on an individual basis. The unused portion of this warranty is fully transferable with the original equipment in which the power supply is installed.

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ORDERING INFORMATION:

A 3 or 4-character option code is required following the base model description to define the desired model configuration. Codes added in the following sequence, 1 from each category:

*	PCI174-1022- PCI204-1022-	(1)	(2)	(3)	(4)
*Input: AC – Blank DC – D	Base Model w/ V_{out} Code. 174 – 175W 204 – 200W	Connector Type	Current Share	Latch Type	Overlay Type

- * Configuration Options -

Option: Code:

(1) Connector Type.....4 = 47 pin (PICMG standard);
D = 32 pin DIN41612 (available on AC input models only).

(2) Current Sharing ...Blank = Standard configuration. Droop method (no code letter required);
C = Optional single wire I-SHR for V1, V2, V3 (47 I/O circuit models only).
(Consult factory for availability.)

(3) Latch Type..... S = Standard Telecom Type VII;
O = Optional Type IV;
N = None provided.

(4) Overlay ..... S = Standard (JE Logo, model designation, etc);
B = Blank (No logo, model designation, etc);
N = No overlay provided;
*M = Custom – User specified. May require a factory assigned custom model code.
(* - Additional cost. Consult factory.)

Examples: PCI174-1022-4CSS
DPCI204-1022-DNM

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