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# **CompactPCI®**

250 Watt - 3U 8HP

# 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, 3.3V and +12.0V Outputs.
- ✓ Standard 47 Pin Connector Configuration.
- ✓ Custom Configurations To Meet User Specified Requirements.
- ✓ Excellent Performance, Competitively Priced.
- ✓ 2 Year Warranty.
- ✓ Complies With All Requirements Of PICMG®
  Power Interface Specifications.
- ✓ Fully Compliant with the EU RoHS Directive.\*\*
- ✓ cCSAus, NEMKO, CE Marked.



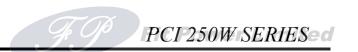
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#### **GENERAL PRODUCT SPECIFICATIONS:**

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	- <u>INPUT</u> -	Over/Under Shoot None at turn-on or turn-off.				
Voltage/Current	. AC 90-264V, 3.6A max, 47-63Hz, 1 Phase; or, DC 36-72, 6.55A@48V nom (9.0A max).		Any output dropping below 10% of nominal triggers the power fail warning signal.			
Fusing	Internal line fuse provided, non-user serviceable.	- <u>SIGNALS,</u>	INDICATORS and CONTROLS-			
Power Factor	AC- 4.0A, 250V; DC- 10.0A.  0.99 line PFC typical at AC 115V, full load.		Enabled by closed circuit or TTL logic 0. Disabled by open circuit or TTL logic 1.			
Inrush Current	. Thermistor soft start. ~25°C AC cold start current 15Apk @ AC 115V; 30Apk @ AC 230V.		Enabled by open circuit or TTL logic 1. Disabled by closed circuit or TTL logic 0.			
	MOV. Withstands transients as specified by IEEE C62.41 3KV (differential and common mode).	t K	Loss of input AC causes a TTL compatible signal to go low >4msec prior to V1 or V2 output dropping out of regulation. At AC turn-on, signal stays ow until outputs are in regulation. AC and DC			
-	Meets IFCC Level A, and EN 55022 Level A (conducted).		nput: PF signal triggered by an under voltage condition on V1 or V2 outputs.			
j	. 78% typical at AC 115V, full load.		Dual LEDs. Green indicates input power ON and			
Redundant/Hot Swap	Full power N+1 redundant, hot swap capable.		outputs within regulation. Off or Amber indicates input and/or output power fault.			
	- <u>OUTPUTS</u> -	-OPERATING ENVIRONMENT-				
Voltage/Current (V/A) Model: <u>PCI254-1022-</u> <u>PCI254-1022-</u>	<b>4</b> 5.0/33 3.3/33 +12/6.0 -12/1.0 <b>4-P</b> 5.0/33 3.3/33 +12/6.0 -12/1.0	, ,	0° – 50°C ambient at full load, with specified airflow.			
Total loadir Maximum coml Model: <b>DPCI254-102</b>	g on all outputs not to exceed 250W.  bined load of V1+V2 not to exceed 55.0A  2-4 5.0/33 3.3/33 +12/6.0 -12/1.0	· · · · · · · · · · · · · · · · · · ·	A minimum of 20 cfm / 600 lfm direct forward airflow required to achieve full rated power and specified MTBF. Consult factory for derating			
DPCI254-102	<b>2-4-P</b> 5.0/33 3.3/33 +12/6.0 –12/1.0 g on all outputs not to exceed 250W.	`	guidelines with reduced or reversed airflow.			
	oined load of V1+V2 not to exceed 55.0A.	•	Up to 90% RH, non-condensing.			
Minimum Loading	. 5% minimum on V1 for standard models; none required for option "P" models.		2.0G peak, 5 – 500Hz along three orthogonal axis.			
Line Regulation	. At the Sense Point, Over Full Input Range <±1%,	Storage Temperature				
	sense leads connected.		Operating to 10,000 ft; Storage to 30,000 ft.			
_	Output voltage droops with increasing load.		•			
•	. Output drift <±0.2% after 20 minute warm-up.		- <u>INTERCONNECT</u> -			
·	.<±0.02%/°C, 0° - 50°C, after 20 minute warm-up. Less than 3% deviation with a 25% load change at 1A/μsec. Output returns to within 1% in less than 300μsec.	(AC), 02600-000 (DC), or identification-	refer to the chart in this catalog for pin function			
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	-INTERCONNECT-  1/O Connectors. Request JE Outline Configuration Drawing: (AC), 02600-000 (DC), or refer to the chart in this catalog for identification— 47 Circuit				
Compant Charing	capacitors at the output terminals.	Outling				
Current Sharing/ Parallel N+1 Operation	. V1, V2, V3 Outputs. Single wire connection for ±10% current sharing between any number of units. Mixing standard and opt. "P" models is not recommended.	‡ ! ?	#02102-000 (AC), 02600-000 (DC) or the Mechanical Outline in this catalog. Complies with all current PICMG® CompactPCI specifications.			
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.	(	Supplied with a single Rittal #3686.135 Type VII (Telecom) Lower Latch. Other manufacturers and types available. Consult factory.			
·	Outputs remain in regulation >15msec minimum following loss of AC power at low line, full load.	f	Supplied with 0.260[6.61mm] offset guide rails for use with Rittal 3687.832 (or equivalent) PSU guides.			
Over Current/Short Circuit Protection	. Current limit on all outputs. Automatic recovery when overload is removed.	, t	Supplied with Lexan overlay and JE Logo. May be deleted, or supplied with customer specified logo or other information. Consult factory.			
Over Temperature Protection	Internal temperature sensing. Causes all outputs	Weight	Approx: 1.8 lbs / 1.06 kgs.			
Over Voltage	to shut down. Automatic recovery.		- <u>SAFETY</u> -			
<u> </u>	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.	Recognized to Canadian and U.S. Bi-National Standard CSA C22.2 No. 60950-1-03 / UL 60950-1 (2001) (cCSAus Mark); NEMKO certified to EN60950 Ed. 1 (2001) (N Mark). CE Marked.				

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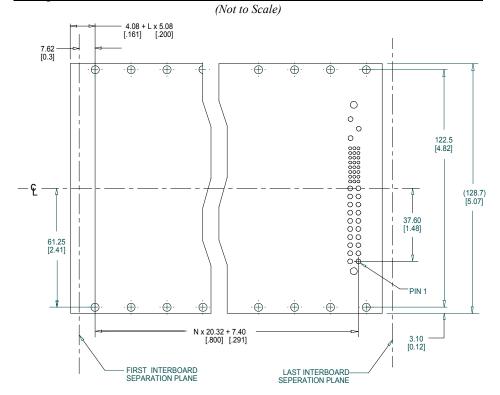


#### 47 Pin I/O Connector Functions:

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

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

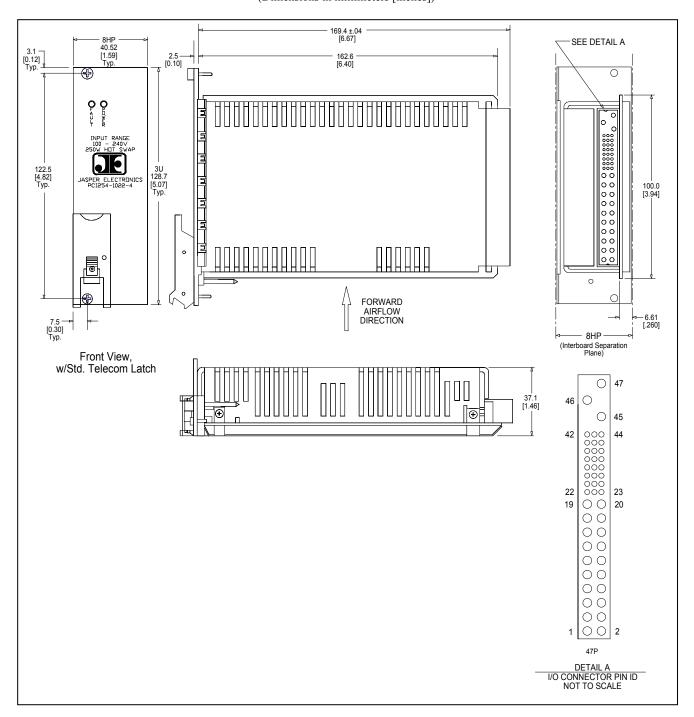
## Backplane Connector Locations, Viewed from the Front of the Enclosure





### 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 work-manship 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.



#### ORDERING INFORMATION:

A 4 to 6-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 required category:

*	PCI254-1022-	(1)	-(2)	(3)	(4)	(5)	(6)
*Input: AC – Blank DC – D	Base Model w/ V <sub>out</sub> Code. 254 – 250W, 4 Output	Connector Type	Internal V1 Preload	Latch Type	Overlay Type	-MXXXX User Specified Config.	RoHS Compliant Model

- \* Configuration Options -

Option: Code:

- (1) Connector Type...... 4 = 47 pin (PICMG standard);
- (2) Internal Preload... Blank = Standard configuration. Refer to minimum external preload requirements in the general specifications.
  - P = Optional internal preload on V1.
- (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 overlay (No logo, model designation, etc);
  - N = No overlay provided:
  - NN = No overlay; in addition, the front panel including the EMI strip is also deleted. For user provided panel or custom enclosure applications. Note: Removal of the panel does not violate safety enclosure requirements or integrity. Contact the factory for panel fastener type, max penetration depth and location information.
  - \*M = Custom overlay- user specified. May require a factory assigned custom model code. (\* - may incur additional cost. Consult factory.)
- (5) Custom

  - Configuration .......... M = Modified, followed by a factory assigned 4-digit number to identify a user specified configuration. Such models may include special or non-standard features and/or options, or be in a configuration differing sufficiently from the design of the approved similar standard model from which it is derived to require re-evaluation of all or part of the design to insure continuing compliance with all safety requirements. Option codes 2,3,4 may not be present in the model description as these requirements are generally included in the user specification documentation on file with the factory. Consult the factory for exact requirements. (May incur additional cost. Consult the factory.)
- (6) RoHS Compliant ...... G = Jasper products that are fully compliant with the requirements of Directive 2002/95/EC Restrictions of Hazardous Substances (RoHS) are identified with the letter code "G" either included in or adjacent to the model description on the unit labels and related documents (sales orders, etc). All materials, processes and packaging used in the assembly and shipping of this product comply.

Note: non-RoHS compliant standard models only available until existing stock is depleted. User requests for non-RoHS or RoHS-5 (lead exception) versions may be available under the "-M" custom configuration option, at additional cost. Minimum order quantities may apply. Consult the factory.

> PCI254-1022-4-PSS Examples:

> > DPCI254-1022-4-PNNNG DPCI254-1022-4-M5412 G

All statements and technical information contained herein are believed by JE to be reliable as of the publication date of this document, but the accuracy or completeness is not guaranteed, and JE reserves the right to change specifications without prior notification. However, every reasonable effort will be made by JE to inform users of JE products of changes to design form, fit or function that may affect the user's applications. JE manufactures a quality product, equal to any available in the marketplace; however, these products are intended to be used in accordance with the specifications described in this catalog. Any use or application that deviates from the stated operating specifications is not recommended and may be unsafe.

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