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CompactPCI®

300 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.
- ✓ 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.**
- ✓ Optional RoHS Compliant Models.
- ✓ 2 Year Warranty.
- ✓ Complies With All Requirements Of PICMG Power Interface Specifications.



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GENERAL PRODUCT SPECIFICATIONS:

	- <u>INPUT</u> -	Under Voltage Warning.	Any output dropping below 10% of nominal triggers the power fail warning signal.			
Voltage/Current AC 90-264V, 3.5A max, 47-63Hz, 1 Phase.		-SIGNALS	INDICATORS and CONTROLS-			
	. Internal line fuse provided, non-user serviceable. AC- 6.3A, 250V.		Enabled by closed circuit or TTL logic 0. Disabled by open circuit or TTL logic 1.			
Power Factor	. Meets Harmonic Correction per IEC 1000-3-2. 0.98-0.99 line PFC typical at AC 115V, full load.	Remote Inhibit	Enabled by open circuit or TTL logic 1. Disabled by closed circuit or TTL logic 0.			
Inrush Current	. Thermistor soft start. ~25°C AC cold start current 15Apk @ AC 115V; 30Apk @ AC 230V.	Power Fail Warning	Loss of input AC causes a TTL compatible signal			
	. MOV. Withstands transients as specified by IEEE C62.41 3KV (differential and common mode).	to go low >4msec prior to V1 or V2 output dro ping out of regulation. At AC turn-on, signal si low until outputs are in regulation. AC and DC input: PF signal triggered by an under voltage				
EMI Filtering	. Meets FCC Class B, and EN 55022 Level B (conducted).	LED Indicator	condition on V1 or V2 outputs. Dual LEDs. Green indicates input power ON and			
Efficiency	. 78-83% typical at AC 115V, full load.		outputs within regulation. Off or Amber indicates input and/or output power fault.			
Redundant/Hot Swap	. Full power N+1 redundant, hot swap capable.	-OPERATING ENVIRONMENT-				
Touch Current	. <0.5mA @230V.	Operating Temperature 0° – 50°C ambient at full load, with specified				
Dielectric Withstand	. Meets IEC60950 regulations.	operating remperature.	airflow. Derates linearly to 50% at +70°C.			
	4 5.0/40, 3.3/40, +12/10, -12/2.0. output of V1+V2 not to exceed 60A.	Cooling	A minimum of 60cfm (800 lfm) direct forward airflow required to achieve full rated power and specified MTBF. Consult factory for derating guidelines with reduced or reversed airflow.			
Total loadir	ng on all outputs not to exceed 300W.	Relative Humidity	. Up to 90% RH, non-condensing.			
Minimum Loading Line Regulation	None required. At the sense point over full input range, ±0.05%	Operational Vibration	. 2.0G peak, 5 – 500Hz along three orthogonal axis.			
3	typical, sense leads connected.	Storage Temperature	40° to 85°C.			
Load Regulation	. ±1.0% typical for V1, V2; ±2.0% for V3; ±5.0% for V4.	Altitude	Operating to 10,000 ft; Storage to 30,000 ft.			
Stability	Output drift <±0.2% after 20 minute warm-up.	MTBF	. Designed for 150,000 hrs at 25°C.			
•	·		- <u>INTERCONNECT</u> -			
	. <±0.02%/°C, 0° - 50°C, after 20 minute warm-up. Less than 5% deviation with a 25% load change at 1A/μsec. Output returns to within 1% in less than 500μsec.	refer to the chart in this of 47 Circuit	t JE Outline Configuration Drawing# 02102-000 or catalog for pin function identification- Positronic Ind. P/N PCIH47M400A1. Mates with PI P/N PCIH47F300A1. Mated mating connector is required to insure proper			
(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.	"make/break" sequential contact sequence.				
		o #:	-MECHANICAL-			
Current Sharing/ Parallel N+1 Operation	. V1, V2, V3 Outputs. Single wire connection for ±10% current sharing between any number of units. Droop method current share for V4.		. 3U x 8HP x 160mm Eurocard. Refer to JE Outline Dwg 02102-000 or the Mechanical Outline in this catalog. Complies with all current PICMG® CompactPCI specifications.			
Remote Sense	. V1, V2 outputs compensate for up to 0.25V	Power Density				
Hold He Tiese	total line drop in the load cables. Outputs are internally sensed if leads are opened.	Retaining Latches	Supplied with a single Rittal #3686.135 Type VII (Telecom) Lower Latch. Other manufacturers and types available. Consult factory.			
Over Current/Short	. Outputs remain in regulation >18msec minimum following loss of AC power at low line, full load.	Guide Rails	Supplied with .260[6.61] offset guide rails for use with Rittal 3687.832 (or equivalent) PSU guides.			
Circuit Protection Over Temperature	. Current limit on all outputs, 105-130% max load typical. Automatic recovery when overload is removed.	Front Panel Overlay	Supplied with Lexan overlay and JE Logo. May be deleted, or supplied with customer specified logo or other information. Consult factory.			
	. Internal temperature sensing. Causes all outputs	Weight	Approx: 1.47 lbs / 666.0 gs.			
to shut down. Automatic recovery. Over/Under Shoot None at turn-on or turn-off.		-Safety-				
	. ויוטוופ מו ועווו-טוו טו ועווו-טוד.	Designed to comply with	the relevant industry standards of the authorities			
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		nittal for recognition or approvals pending JE final			

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recycle required to reset.

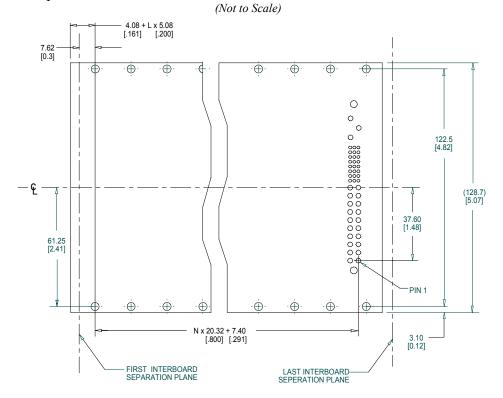


47 Pin I/O Connector Functions:

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

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

Backplane Connector Locations, Viewed from the Front of the Enclosure

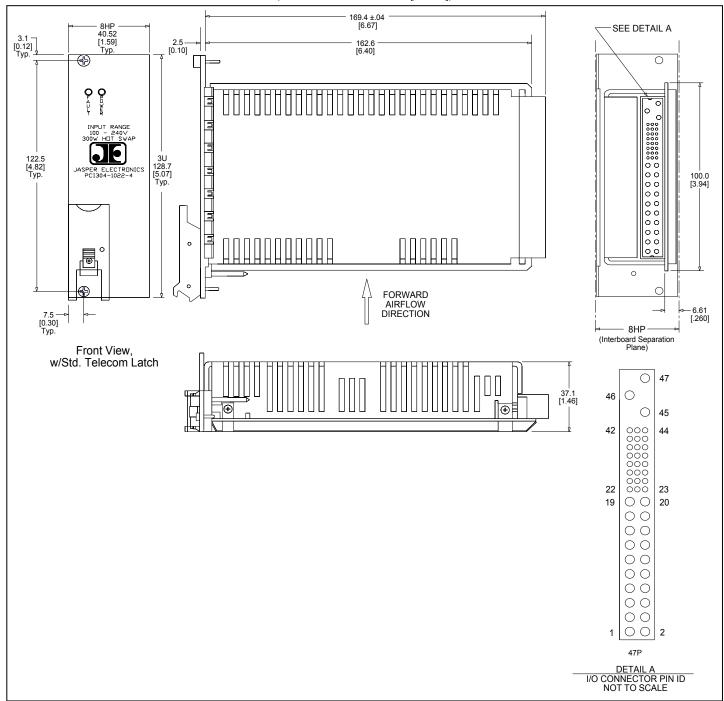


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Mechanical Outline

(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 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 or 5-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:

*	PCI304-1022-	(1)	(2)	(3)	(4)	(5)
*Input: AC – Blank	Base Model w/ V _{out} Code. 304 – 300W, 4 Output	Connector Type	Latch Type	Overlay Type	RoHS Compliant Model	-MXXXX User Specified Config.

- * Configuration Options -

Option: Code:

(1) Connector Type....... 4 = 47 pin (PICMG standard);

(2) Latch TypeS = Standard Telecom Type VII;

O = Optional Type IV;

N = None provided.

(3) OverlayS = Standard (JE Logo, model designation, etc);

B = Blank (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. (- Additional cost. Consult factory.)

(4) RoHS Compliant G = Optional. Jasper products that are fully compliant with the requirements of Directive 2002/95/EC Report On Hazardous Substances (RoHS) are identified with the letter code "G" either included in or adjacent to (but detached from) 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. Available in the 2nd Quarter of 2006.

(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 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 factory.)

Examples: PCI304-1022-4-SS

PCI304-1022-4-M4662

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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