

11115 Vanowen Street, North Hollywood, CA 91605 Ph.: 818-985-8208 FAX: 818-985-7708

VECTOR PART NUMBER 92100142

CompactPCI® 500 Watt – 6U 8HP Power Supplies

(PICMG[®] COMPLIANT*)

Features:

- ✓ Standard PCI Output Voltages: 5.0V, 3.3V, \pm 12.0V.
- \checkmark Hot Swap, N+1 Redundant with Internal OR-ing MOSFETs.
- Input: >.99 Power Factor Corrected AC 90-264V, or DC 36-72V.
- ✓ Current Sharing on 5.0V, 3.3V and +12.0V Outputs.
- \checkmark 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.
- \checkmark Fully Compliant with the EU RoHS Directive.
- ✓ cCSAus, CE Marked.





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GENERAL PRODUCT SPECIFICATIONS:

	GENERAL PRODUC	T SPECIFICATIO	NS:	
	-INPUT-	Over Current/Short		
Voltage/Current	AC 90-264V, 7.0A max, 47-63Hz, 1 Phase		Current limit on all outputs, 120-130% max load typical. Recycle input power required to recover.	
Fusing	Internal line fuse provided, non-user serviceable.	Over Voltage Protection	Non-crowbar type. Any output that exceeds	
AC Power Factor	Meets Harmonic Correction per IEC 1000-3-2. 0.99 line PFC typical at AC 115V, full load.		25% ±10% of nominal Vout will cause all outputs to latch off. Remote inhibit, enable or input recycle required to reset.	
Efficiency	AC 77-80% typical at 115V, full load.	- <u>SIGNALS,</u>	INDICATORS and CONTROLS-	
Inrush Current	Soft start, ~25°C cold start current:	Remote Enable	.Enabled by closed circuit or TTL logic 0. Disabled by open circuit or TTL logic 1.	
Input Voltage Protection (UVP/OVP)	AC 30.6A (rms) @ 230V Auto DC output shutdown when input rises or falls below safe operating limits. Automatic recovery when input returns to within normal operating range. AC: UVP ≈ 80V. -OUTPUTS-		Enabled by open circuit or TTL logic 1. Disabled by closed circuit or TTL logic 0. Loss of input AC causes a TTL compatible signal	
			to go low >4msec prior to V1 or V2 output drop- ping out of regulation. At AC turn-on, signal stays low until outputs are in regulation. PF signal also triggered in both AC and DC input models by any output under dropping below 10% of nominal.	
	V1 V2 V3 V4 5.0/50, 3.3/30, +12/10(15pk), -12/3.0(5pk). loading on all outputs not to exceed 500W.	LED Indicator	.Dual LEDs. Green indicates input power ON and outputs within regulation. Off or Amber indicates input and/or output power fault.	
	ing <60sec., with a duty cycle <10%.		.Integral with lower latch. Outputs are disabled with open (unlocked) latch.	
Line riegulation	typical, sense leads connected.		-OPERATING ENVIRONMENT-	
Load Regulation	AC : typical, V1, V2 ±0.5%; V3 ±1.0%; V4 ±3.0%.	Operating Temperature .	AC -30° to +50°C ambient; DC 0° to +50°C at full load, with specified airflow. Derates linearly to	
Minimum Loading	None required for single unit applications. 3.0A minimum required on V1 for parallel operations.	50% at +70°C. CoolingA minimum of 800 lfm direct forward airflow		
Stability	Output drift <±0.2% after 20 minute warm-up.		required to achieve full rated power and specified MTBF. Consult factory for derating	
Temp. Coefficient	0º - 50ºC, after 20 minute warm-up. AC : <±0.04%/ºC; DC : <±0.02%/ºC.	guidelines with reduced or reversed airflow. Relative Humidity		
Dynamic Response	AC: Peak transient less than 250mV, recovers to			
	within 1% in less than 0.5msec with a 50% load change.	Operational Vibration	2.0G peak, 5 – 500Hz along three orthogonal axis.	
Remote Sense	Stanard on V1, V2, V3 outputs.	Storage Temperature	40º to 85ºC.	
Ripple and Noise		Altitude	Operating to 10,000 ft; Storage to 30,000 ft.	
	For all outputs, 50mV max or 1% peak-to-peak nominal, which ever is greater, DC to 20MHz	MTBF	Designed for 150,000 hrs at 25ºC.	
	bandwidth with a coaxial probe and 0.1μ F/22 μ F		- <u>MECHANICAL</u> -	
Current Sharing/	capacitors at the output terminals. V1, V2, V3 outputs. Single wire connection for ±10% current sharing between any number of	Outline	.6U x 8HP x 233mm Eurocard. Complies with all current PICMG [®] CompactPCI specifications.	
		Power Density	5.0 Watts/Cubic Inch.	
Redundant/Hot Swap	units. Full power N+1 redundant, hot swap capable.	Retaining Latches	.Supplied with dual Rittal #3686.135 Type VII (Telecom) latches. Other manufacturers and	
Over/Under Shoot	None at turn-on or turn-off.		types available. Consult factory.	
Hold-Up Time (AC)	Outputs remain in regulation following loss of AC power 22.4msec min @ 115V, 34msec min	Guide Rails	.Supplied with .260[6.61] offset guide rails for use with Rittal 3687.832 (or equivalent) PSU guides.	
Over Temperature Protection	 @ 230V, full load. Internal temperature sensing. Causes all outputs to shut down. Automatic recovery. 		Supplied with Lexan overlay and JE Logo. May be deleted, or supplied with customer specified logo or other information. Consult factory.	
			Approx: 4.8 lbs / 2.38 kg.	



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-SAFETY, REGULATORY an	<u>d EMC</u> -
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Designed to comply with the relevant industry standards of the authorities having jurisdiction.

AC: Recognized to U.S. and Canadian Bi-National Standard UL 60950-1, $1^{\rm st}.$ Ed., 2007, and CSA C22.2 No. 60950-1-03, 2007 (cCSAus Mark). CE Marked.

- EMI FilteringMeets FCC Class A, and CISPR EN 55022 Level A, radiated and conducted.
- Transient ProtectionMOV. Withstands transients/bursts as specified by EN 61000-4-4 Level 3.

Touch CurrentTypical 0.7mA @ 50/60Hz, 230V AC per UL 60950 test procedures (Sec. 5.0).

- Dielectric Withstand.......Meets IEC60950 regulations.
- Routine Factory Tests AC: 2121V DC; DC: 1500V DC di-electric strength (hi-pot) input-to-chassis and input-tooutputs; MegOhm to 500V output-to-chassis.

-LIMITED WARRANTY POLICY-

All Vector Electronics 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 comply or 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.

-INTERCONNECT-

Input/Output Connector 47 circuit sequential contact, hot pluggable type.
2 AC input, 1 PE contact rated 40.0A. 20 DC
output power contacts rated 28.0A each, 24
signal contacts rated 3.0A each. Ratings con-
tinuous, all contacts under load. UL94V-0 glass
filled thermoplastic material, secured to the main
circuit board assembly in the rear of the unit.
Positronic Ind. P/N PCIH47M400A1
Mates with PI P/N PCIH47F300A1.
Note: Use of the specified mating connector is
required to insure proper "make/break"
sequential contact sequence.

-I/O CONNECTOR FUNCTIONS-

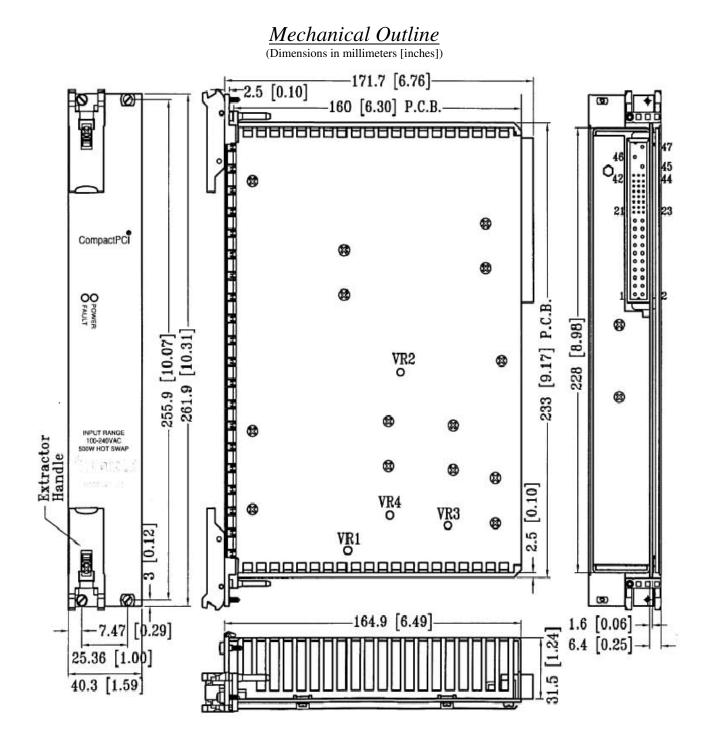
PIN#	$SEQ^{(1)}$	FUNCTIO	N
01-04	2	+5.0V	V1 Output.
05-12	2	GND	V1+V2 Return.
13-18	2	+3.3V	V2 Output.
19	2	GND	V3 Return.
20	2	+12.0V	V3 Output.
21	2	-12.0V	V4 Output.
22,23	2	N/C	No Connection (Reserved).
24	2	GND	V4 Return.
25,26	2	N/C	No Connection (Reserved).
27	3	R/EN	Remote Enable. Close circuit to GND.
28	2	N/C	No Connection (Reserved).
29	2	V1-ADJ	V1 Remote Voltage Adjust.
30	2	+S1	+5.0V (V1) Remote Sense.
31	2	N/C	No Connection (Reserved).
32	2	V2-ADJ	V2 Remote Voltage Adjust.
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.
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.
42	2	PF	Power Fail Signal.
43	2	N/C	No Connection (Reserved).
44	3	ISHR-3	+12.0V (V3) Current Share.
45	1	PE	Protective Earth (chassis) Ground.
46	2	Input Pwr	AC: Neutral (N/ACC) Input Power; DC: +Vin.
47	2	Input Pwr	AC: Line (L/AC) Input Power; DC: -Vin.

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

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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