



Anaheim, Ca., 92807 Ph: (714) 917-0749 Fax: (714) 917-0786

# **COMPACTPCI®**370 Watt – 6U SHP

# Power Supplies

(PICMG® COMPLIANT\*)

# Features:

- ✓ Standard PCI Output Voltages: 5.0V, 3.3V,  $\pm 12.0$ V.
- ✓ Hot Swap, N+1 Redundant with Internal OR-ing MOSFETs.
- ✓ Input: DC 18-36V.
- √ 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, CE Marked.





\*CompactPCI $^{\otimes}$  and PICMG $^{\otimes}$  are registered trademark the PCI Industrial Computer Manufacturers Group.

中国区总代理:上海佳舍珀电子科技有限公司

Cat.# 02127-049 B

## JASPER ELECTRONICS

	$\mathcal{A}$	
The Co	DPCI374	370W SERIES

#### GENERAL PRODUCT SPECIFICATIONS: -INPUT-

Voltage/Current <b>DC</b> 18-36V (24V nom.), 30.0A max.					
Fusing	Internal line fuse provided, non-user serviceable. 35.0A, 125VDC.				
Efficiency	81.8% typical				
Inrush Current	Thermistor soft start (~25°C cold start). 56.5ApK @ 36Vdc.				

Input Voltage

Protection (UVP/OVP).... Auto DC output shutdown when input rises or falls below safe operating limits. Automatic recovery when input returns to within normal operating range.

#### -OUTPUTS-

Voltage/Current (V/A)	V1	V2	V3	V4
DPCI374-1022-4 Total continuous l Peak loading <60 Total Max. Powe	oading on a sec., with a	all outpur a duty cy	ts not to exc cle <10%.	
Line Regulation			over full inp	<b>O</b> /
Load Regulation	tvpical, V1	. V2 ±1.	5%: V3 ±3.0	)%: V4 ±5.0%.

Minimum Loading...... 5% of V1 rating.

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

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

Dynamic Response ...... Peak transient less than 250mV, recovers to within 1% in less than 1.0msec with a 25% load change.

Remote Sense ...... Stanard on V1, V2, V3 outputs.

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... Active current sharing at V1, V2, V3 outputs.

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

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

Over Temperature

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

Over Current/Short

Circuit Protection...... Current limit on all outputs, 120-130% max load typical. Recycle input power required to recover.

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 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.

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

input and/or output power fault.

Switch, On/Off

(Optional)......Integral with lower latch. Outputs are disabled with open (unlocked) latch.

#### -OPERATING ENVIRONMENT-

Operating Temperature ..-20° to +50°C at full load with 600LFM airflow. Derates linearly to 50% at +70°C. Or -20° to +70°C at full load with 800LFM airflow. Derates linearly to 60% at +80°C.

Cooling ...... A minimum of 600LFM or 800LFM 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.....2.0G peak, 5 – 500Hz along three orthogonal

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.

#### -MECHANICAL-

Outline .......6U x 8HP x 160mm Eurocard. Complies with all current PICMG® CompactPCI specifications.

Power Density ......3.45 Watts/Cubic Inch.

Retaining Latches......Supplied with dual Rittal #3686.135 Type VII

(Telecom) latches. 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: 3.78 lbs / 1.72 kg.

#### -SAFETY, REGULATORY and EMC-

Designed to comply with the relevant industry standards of the authorities having jurisdiction.

Pending JE engineering evaluation of the final design configuration, this model series may be submitted for certification to U.S. and Canadian Bi-National Standards; and for approval to IEC Standards.

CE Mark pending final configuration acceptance.

EMI Filtering ...... Meets FCC Class A, and CISPR EN 55022 Level A. radiated and conducted.

Transient Protection ...... MOV. Withstands transients/bursts as specified by EN 61000-4-4 Level 3.

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

Dielectric Withstand...... Meets IEC60950 regulations.

Routine Factory Tests .... 1500V DC di-electric strength (hi-pot) input-tochassis and input-to-outputs; MegOhm to 500V output-to-chassis.

#### -LIMITED WARRANTY POLICY-

电话:021-50349737|手机:13764303579|电子邮件:roman.xiao@fitpower.cn|www.fitpower.cn 中国区总代理:上海佳舍珀电子科技有限公司

### JASPER ELECTRONICS

DPC1374 370W SERIES

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 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.

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"

#### -I/O CONNECTOR FUNCTIONS-

sequential contact sequence.

PIN#	$SEQ^{(1)}$	<b>FUNCTIO</b>	ON
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.

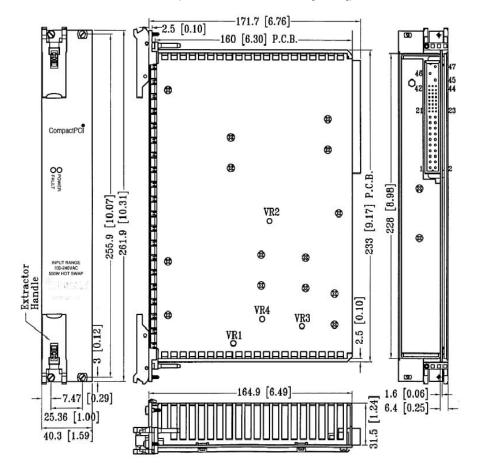
中国区总代理:上海佳舍珀电子科技有限公司

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	+Vin.
47	2	Input Pwr	-Vin.

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

# Mechanical Outline

(Dimensions in millimeters [inches])



02127-049 B

# JASPER ELECTRONICS



#### **ORDERING INFORMATION:**

A multi-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:

*	PCI374-1022-	(1)-	(2)	(3)	(4)	-(5)	(6)
*Input: DC – D	Base Model w/ V <sub>out</sub> Code. 374 – 370W, 4 Output	4- Connector Type	Latch Type	On/Off Switch	Overlay Type	-MXXXX User Specified Config.	G RoHS Compliant Model

#### - \* Configuration Options -

Option:	Code:
---------	-------

- (2) Latch Type ......T = Telecom Type VII.

N = None provided.

- (3) On/Off Switch......Blank = Not included (standard).
  - I = Included option. Not available with option N latch.
- (4) Overlay....... S = Standard, with JE logo, model designation, etc.
  - B = Blank overlay applied; no logo, model designation, etc.
  - N = No overlay provided;
  - M = Custom overlay User specified. May require a <u>factory assigned</u> custom model code (5).
- (5) Custom

(May incur additional cost. Consult factory.)

(6) RoHS Compliant........... G = Required code. All Jasper products in this series are fully compliant with the requirements of Directive 2002/95/EC Restrictions of Hazardous Substances (RoHS) and are identified with the letter code "G" in the JE part number and 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.

Examples: PCI504-1022-4-TSG

DPCI504-1022-4-M4662G

02127-049 B