



ETA-USA

HIGH QUALITY SWITCHING POWER SUPPLIES

AC/DC & DC/DC COMPACT PCI

175 Watt – 3U

Power Supplies

PCI-3U175 / DPCI-3U175-24 / DPCI-3U175-48

3U PCI / DPCI SERIES



General Description

+	PCI-3U175	-24 OR -48
AC – Blank DC – 0	Base Model	DC Input voltage (nom.)

Input

Input Voltage Range:	90–264 Vac
Input Current:	<3.2A max.
Input DC Voltage Range:	18–36Vdc (24Vdc)
Input Current:	<13.5A
	36–72Vdc (48Vdc)
	<7A
Frequency:	47–63Hz
Phase:	Single
Inrush Current:	<20A @ 120Vac
POWER FACTOR:	0.99

Features

- Hot-swap
- N+1 Redundant
- Remote Sense on Main Output (+5V and +3.3V)
- Efficiency 73%
- Build-in EMI Protection
- EMI Meets EN55022 / FCC Class A
- Over voltage Protection
- Short Circuit Protection on all Outputs
- Over Temperature Output
- Compliant with PICMG 2.11 (47-pin)
- Status LEDs Indicate Power OK and Fault
- Current Sharing on Main Output (+5V and +3.3V)
- Worldwide Safety Approval Including UL, CSA, CE Marking

Options

N/A

Output Characteristic	Unit	PCI-3U175				PCI-3U175-24				PCI-3U175-48			
		V1*	V2*	V3	V4	V1*	V2*	V3	V4	V1*	V2*	V3	V4
Output Voltage	Vdc	+3.3	+5	+12	-12	+3.3	+5	+12	-12	+3.3	+5	+12	-12
Output Current	A	25	25	3	1								
Voltage Error	%	±1%											
Ripple Noise (max)	mVpp	50 mV or 1 % whichever is greater											
Current Sharing	%	±5%											
Hold-up Time	mS	20				10				10			
Rise Time		< 200 ms											
Regulation													
a. Line Regulation	%	± 0.3%											
b. Load Regulation	%	± 1% @ +5V/3.3V, ±3% @ +12V / -12V											
c. Temperature coefficient	°C	0.05 % / °C											

Efficiency	%	73%
Power Factor		0.99

* Combined load on V1 + V2 not to exceed 27A



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Environmental Specification	
Operating Temperature	0 C~70 C with derating above 40 C and 15 CFM forced air. (100%: 40 C, 50%: 70 C)
Storage Temperature	-10 ~ +85 C
Humidity	< 95 % @ 40 C
Altitude	6,400 m
MTBF	100,000 hrs
MTTR	5 Minutes (based on module replacement)
Function/Protection	
Input Protection	Fuse, Under voltage protection, Surge
Output Protection	Overload and short circuit/ Over temperature / Over voltage protection
Safety	CUL, EN 60950 / UL 1950
CE	FCC Class A radiated and conducted, EMS: IEC 1000-4
Signals, Indicators, Controls and Connector	
Indicator	Green LED indicating INPUT O.K. Red LED indicating a power supply FAULT
Output / Input Connector	47 pins: Positronic PCI47M400A1 or PCIH47M400A1

Mechanical	
Weight	0.85

