

Compact PCI – 250 watt output power, 3U 8HP 24/48 VDC 220mm deep

Main Features

- Superior high efficiency, better than 83%
- 250 Watt output power
- 48VDC or 24VDC nominal input
- Operation temperature range -10°C - +55°C with no derating
- "Hot-swap" and current sharing features for N+1 redundant connection
- No minimum load requirement
- Standard 47 Pin per PICMG.
- Worldwide Safety approval including UL CSA TUV and CE marking
- Meets FCC-68 Part-15 and EN55022 class-B



Typical applications

- CompactPCI - shifted backplane platforms
- Telecommunication Hubs
- High reliability servers
- Redundant power systems



Ordering Information

Model No.	Input	Main output#1	Output#1 Current	Main output#2	Output#2 Current	Output#3 Voltage	Output#3 Current	Output#4 Voltage	Output#4 Current
CPCI DC-3U-250/48	48V	+5.00V	25A	+3.3V	36A	+12V	3A	-12V	0.5A
CPCI DC-3U-250/24	24V	+5.00V	25A	+3.3V	36A	+12V	3A	-12V	0.5A

Input Specification

- 36 – 72 VDC For central office application (CPCIDC-3U-250/48)
- 18 – 32 VDC For Cellular & Radio applications (CPCIDC-3U-250/24)
- Input protection fuse – on board
- Input filter – Common & Differential mode
Input reflected ripple per FCC-68 part-15 & EN55022 class-B
- Input inrush current – Max. 16A

Output Specifications

- Total output voltage accuracy
(Input voltage, Load, Temperature & Cross Reg.)
5.0 and 3.3 +/- 2% +12V +/-2% -12V +/-4%
- Ripple and Noise – Measured at full load
with 20Mhz bandwidth and 10uF load capacitor
+5.0V & +3.3V <= 50mV P-P +/- 12V <= 120mV P-P
- Remote sense available – On +5V & +3.3V
(Open sense lines protected)
- Stability – 0.1% over 10 hours after 10 min. warm
- Transient response – For a load transient
of 50% Max. peak transient <= 5%
output recovers to 1% in less than 1mSec
- Overload and short-circuit –
All outputs are protected against overload and short-circuit for any duration. The outputs will auto-recover upon removal of the fault
- Overvoltage protection – All outputs protected
against overvoltage, Unit latches off when overvoltage is detected. Input must be recycled to restart
- Over-temperature protection
Shuts down all outputs at over-temperature with auto-recovery.

Environmental Conditions

- Operation temperature -10°C + 55°C
with 15 CFM forced cooling air.
- Storage temperature -40°C + 85°C
- Safety : cUL VDE & CE marking
- Humidity : Up to 95% Non-Condensing
- Shock & Vibration : Per ETSI ETS-300
- Conducted & Radiated emission
per EN55022 Class-B and IEC-1000
- Surge, Spikes & Lightning per IEC-1000
- MTBF : > 500,000 hours per Bellcore

Indication and Controls

- Remote sense on +5.0 & 3.3 outputs
- Inhibit & Power OK per PICMG. 2.11
- Green LED on front panel for outputs OK
- Red LED for power supply failure
- Deg. # signal -TTL compatible signal
- I²C Data Bus

Mechanical Dimensions

- CPCIDC-3U-250 units are 3U height
8HP width and 220mm Board depth
(See outline drawing)
- Units are available with standard 47 pin per PICMG. 2.11 (positronics)
- Weight – 2.0 lbs. Max.

Outline Drawing

