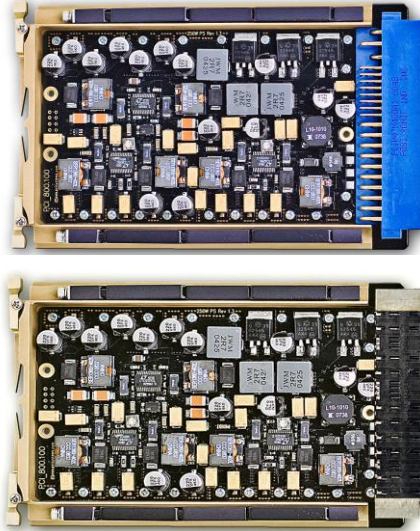


### CONDUCTION COOLED

Conduction cooling conducts heat away from the hot spots of the board and transfers the heat to the card edges and to the system chassis. The heat frame layer transfers heat and integrated wedge stiffens the carrier enabling the board to resist high shock and vibration.

### WHAT WE DO

PCI Systems manufactures a variety of COTS modular designed conduction cooled chassis for VPX, VME, CPCI and CPCIexpress applications, including ATR and ARINC 600 enclosures.



### 3U CC 250W Power Supply:

The standard rugged conduction cooled power supply provides up to 250 watts, 300 watts peak.

14-36VDC (28VDC nominal) power input.

Output voltages of +/-12V, +5V and +3.3V as well as 3.3V aux are standard.

The same supply may be used in all available PCI-Systems Inc. backplane options.

Several customized versions for VPX Vita 46 and Vita 48 are available. The power supply has up to 250W output capability and can also be used with CPCI, CPCIexpress and VME backplanes.

The power supply is designed to meet the intent of the following environmental specifications: (designed to meet intent of MIL-STD 810F)

- > Operating Temperature: -40 to +85 °C at the board rail.
- > Humidity: 0 to 95% Humidity / Non-condensing
- > Shock: 40G / 11mS (designed to meet intent of MIL-STD 810F)
- > Vibration: 14Grms / 20-2000Hz
- > EMC: Designed to meet intent of MIL-STD 461D (RE, RS, CE, CS)
- > Conformal coating applied, parts are undercoated with epoxy.
- > MIL-STD-1275B Military Vehicles 28DC
- > MIL-STD-461E EMI, Ground CS101 and CE10

### Ordering Information:

47-Pin modular power supply  
Model Number / Description / Configuration:

- > **PCI\_800.100** 47-pin 3U CompactPCI®, conduction cooled, 8HP 250W Power supply module with 16-36VDC Input.
- > **PCI\_800.100\_VPX** 3U VPX connector, conduction cooled, 8HP 250W Power supply module with 16-36VDC Input.

## TECHNICAL SUPPORT

A team of engineers is always available to help with your questions. We are passionate about engineering. No waiting for your questions to be mailed around our office.

## CUSTOM SOLUTIONS

If you cannot find the right solution with our standard products or just need assistance in developing a design solution, contact PCI Systems and you will receive industry leading assistance.

This is a sample of the some of the custom engineering services we can provide:

- Custom Carrier ETX , XTX, PMC, XMC, COMexpress
- Custom Adapter
- Custom Instrument
- Custom Engineering
- Turnkey hardware solutions

## Specifications:

Model Name:  
PCI\_800.100BU0Q

Form Factors:  
(100 x 160mm ) 3U cPCI, VPX VITA 62 conform 2-slot (8HP) wide

Input Voltage:  
14-36 VDC  
Input Current 14A @ 24 VDC  
Inrush Current <30 A

## Output Voltage/Current:

|          |            |            |
|----------|------------|------------|
| +5V:     | Typ. 20.0A | Max. 25.0A |
| +3.3V:   | Typ. 18.0A | Max. 25.0A |
| +12V:    | Typ. 15.0A | Max. 20.0A |
| -12V:    | Typ. 0.8A  | Max.1.2A   |
| 3.3Vaux: | Typ. 1.0A  | Max. 1.5A  |

*Max. load is the continuous operating load of each rail individually.  
The max. load of each rail cannot be drawn from all outputs simultaneously.*

## Output Wattage:

Typical 250 W continuous, maximum 300 W peak output  
Line Regulation Typical 0.1%  
Load Regulation Typical  $\pm 1-2\%$   
Ripple 50 mV @ +5 V and 3.3 V outputs  
100 mV @ +12 V and -12 V outputs

Hold-up Time 5 ms after power fail signal  
Efficiency Typical 78-85%

Remote ON/OFF Available at [INH#] & [EN#]  
Power Failure Signal Available at [FAL#] pin

## Protections:

|                                    |   |
|------------------------------------|---|
| Over Temperature Protection (OTP): | 85°C  |
| Over Current Protection (OCP):     | Installed at each rail  |
| Over Load Protection (OLP):        | Typical 120% max. load, fully protected against output overload or short circuit. |
| Over Voltage Protection (OVP):     | Built-in at all outputs   |

Two silicon temperature sensors integrated readout with I<sup>2</sup>C bus

## Status LED : Green LED for all voltage rails

Operating Temp.: -40° to 85°C  
Storage Temp.: -40° to +85°C  
Humidity : 5% to 95% non-condensed