

FEATURES

- Wide Input Range
- High Power DC Outputs
- Efficiency of 90% typical
- Conduction Cooled at Card Edge
- Conformal Coating on PCB
- Remote Sensing on Main Output
- Load Sharing on Main Output
- Redundancy on All Outputs



6U VITA 62.0 High Power Dual Output Power Supply

The Behlman VPXtra®1000CD5 COTS DC to DC power supply is a rugged, highly reliable, conduction cooled, switchmode unit built for high-end industrial and military applications. The VPXtra®1000CD5 is a 6U VPX power supply that delivers 1050 Watts of DC power via two outputs. The +12V output can be paralleled with other VPXtra®1000CD5 power supplies for higher power and redundancy. The VPXtra®1000CD5 operates from a 28 VDC input, IAW MIL-STD-704E, and supplies a high power DC output.

The VPXtra®1000CD5 power supply has no minimum load requirement and has overvoltage and short circuit protection as well as over current and thermal protection. The power supply is designed to support the rigors of mission critical airborne, shipboard, vehicle and mobile applications.

Designed and manufactured with *Xtra-Cooling* technology, *Xtra-Reliable* design and *Xtra-Rugged* construction, Behlman's VPXtra®1000CD5 is the best choice for your power supply needs.

INPUT

Voltage: 18 to 36 VDC

OUTPUT

Power: 1050 Watts †

Voltage/Current:

PO1/PO2/PO3: +12 VDC +/- 1.5% @ 83.3 Amps

Auxiliary: +3.3 VDC +/- 1.5% @ 15 Amps

Line Regulation: 0.25% max

Load Regulation: 0.25% max (+12V Output)
0.5% max (+3.3V Aux Output)

PARD-Ripple & Noise: 120mV p-p (+12V Output)
33mV p-p (+3.3V Aux Output)
0 - 20 MHz Bandwidth

Efficiency: 90% typical, 87% minimum

† Power derating may be required below 20VDC input at high rail temperatures; consult product data sheet for details.

PROTECTIVE CIRCUITS

Over Voltage: 120% typical

Over Current: 135% typical (+12V output)
120% typical (+3.3V Aux output)

Short Circuit: Automatic recovery

Over Temperature: Shutdown w/ auto recovery

CONTROLS

INHIBIT*: (IAW VITA 62.0) Output Off- active low

ENABLE*: Input On- active low

INDICATORS

DC IN OK: Green

DC OUT: Green

OUT Fault: Red

TEMP Alert: Yellow

GENERAL CHARACTERISTICS

Isolation:

Input to Output: 500 VDC

Input to Case: 500 VDC

Output to Case: 500 VDC

MTBF: 208,185 hrs G_F @ 55°C,
IAW MIL HDBK-217F Notice 2

ENVIRONMENTAL

Temperature at card edge (IAW VITA 47)

Operating: -40°C to +71°C @ 1050W

-40°C to +85°C @ 790W

Storage: -55°C to +105°C

MECHANICAL (1.0 inch pitch)

See O&C drawing OC94078-10 for connector details and pin assignment

Dimensions: 9.19"L x 6.64"W x .97"H

Weight: 3.5 lbs

Input Connector: P0, TE P/N: 6450833-7

Output Connector: P1, TE P/N: 6450839-6

COMPLIANCE

Designed to meet the following:

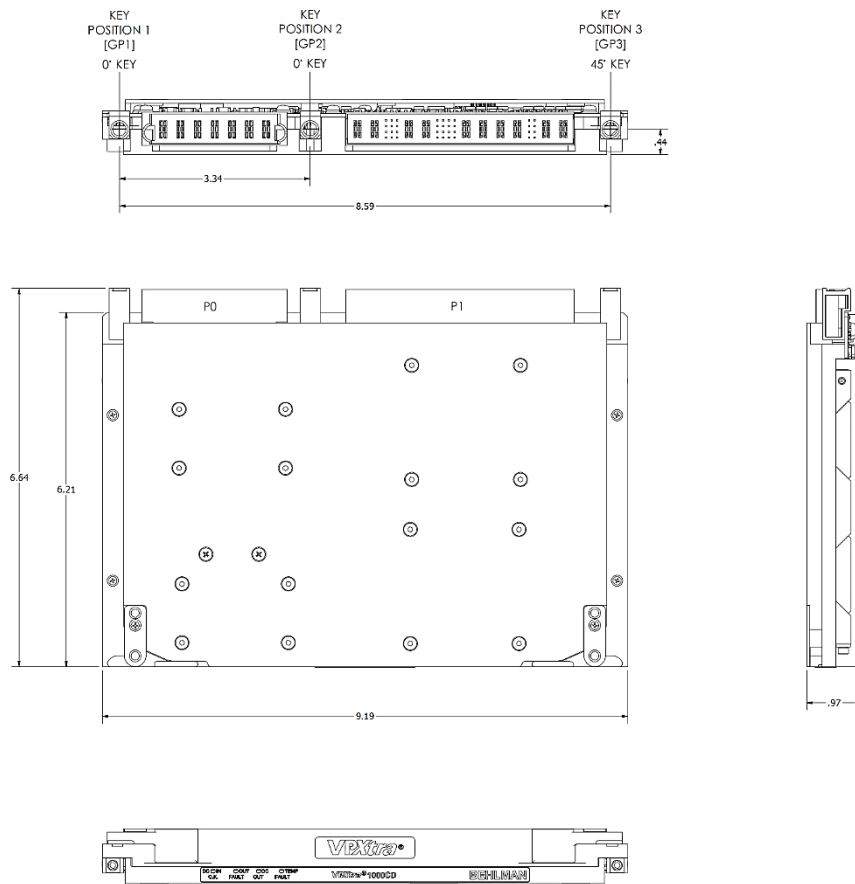
EMI: MIL-STD-461G

Shock: VITA 47 Class OS2

Vibration: VITA 47 Class V3

Humidity: VITA 47

For more detail, see VPXtra®1000CD5.DS Data Sheet



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VPX is a trademark of VITA



VITA Member

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