

### FEATURES

- Open VPX VITA 62 compliant
- Wide input range
- High power DC output
- Efficiency of 90% typical
- Conduction cooled at card edge
- Conformal coating on PCB



### 6U Open VPX VITA 62 High Power 12 VDC Power Supply with 3.3 V Auxiliary

The Behlman VPXtra™1000CD COTS DC to DC power supply is a rugged, highly reliable, conduction cooled, switch mode unit built for high-end industrial and military applications. The VPXtra™1000CD is a VITA 62, Open VPX compliant, 6U power supply that delivers 1000 Watts of DC power via two outputs. The 12V output can be paralleled for higher power and redundancy. The VPXtra™1000CD operates from a 28VDC input, IAW MIL-STD-704, and supplies a high power DC output.

The VPXtra™1000CD 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 makes the Behlman VPXtra™ 1000CD your best choice.

#### INPUT

**Voltage:** 18 to 36 VDC  
Operates below 22 VDC with de-rating

#### OUTPUT

**Power:** 1000 Watts  
**Voltage/Current:**  
    **VS1/VS2/VS3** 12 VDC +/-1% @ 80 Amps  
    **Auxiliary:** 3.3 VDC +/-1% @ 15 Amps  
**Line Regulation:** 0.5% max.  
**Load Regulation:** 0.25% max. (12V output)  
1.0% max. (3.3V output)  
**PARD-Ripple & Noise:** 50mVp-p max (0-20MHz)  
**Efficiency:** 90% typical

#### CONTROLS

**Inhibit:** Output Off- active low  
**Enable:** Input On- active low

(IAW VITA 62)

#### INDICATORS

**DC IN OK:** Green  
**DC OUT:** Green  
**OUT Fault:** Red  
**TEMP Warning:** Red

#### PROTECTIVE CIRCUITS

**Over Voltage:** 120% typical  
**Over Current:** 120% typical  
**Short Circuit:** Automatic recovery  
**Over Temperature:** Shutdown

## GENERAL CHARACTERISTICS

### Isolation:

Input to Output: 500 VDC  
 Input to Case: 500 VDC  
 Output to Case: 100 VDC

MTBF: 336,000hrs  $G_b$  @ 50°C,  
 IAW MIL HDBK-217F Notice 2

## ENVIRONMENTAL

### Temperature at card edge (IAW VITA 47)

Operating: -40°C to +71°C  
 Storage: -40°C to +105°C

## MECHANICAL (1.0 inch pitch)

See O&C drawing 24148-1 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:

EMI (MIL-STD-461): CE102 with external filter

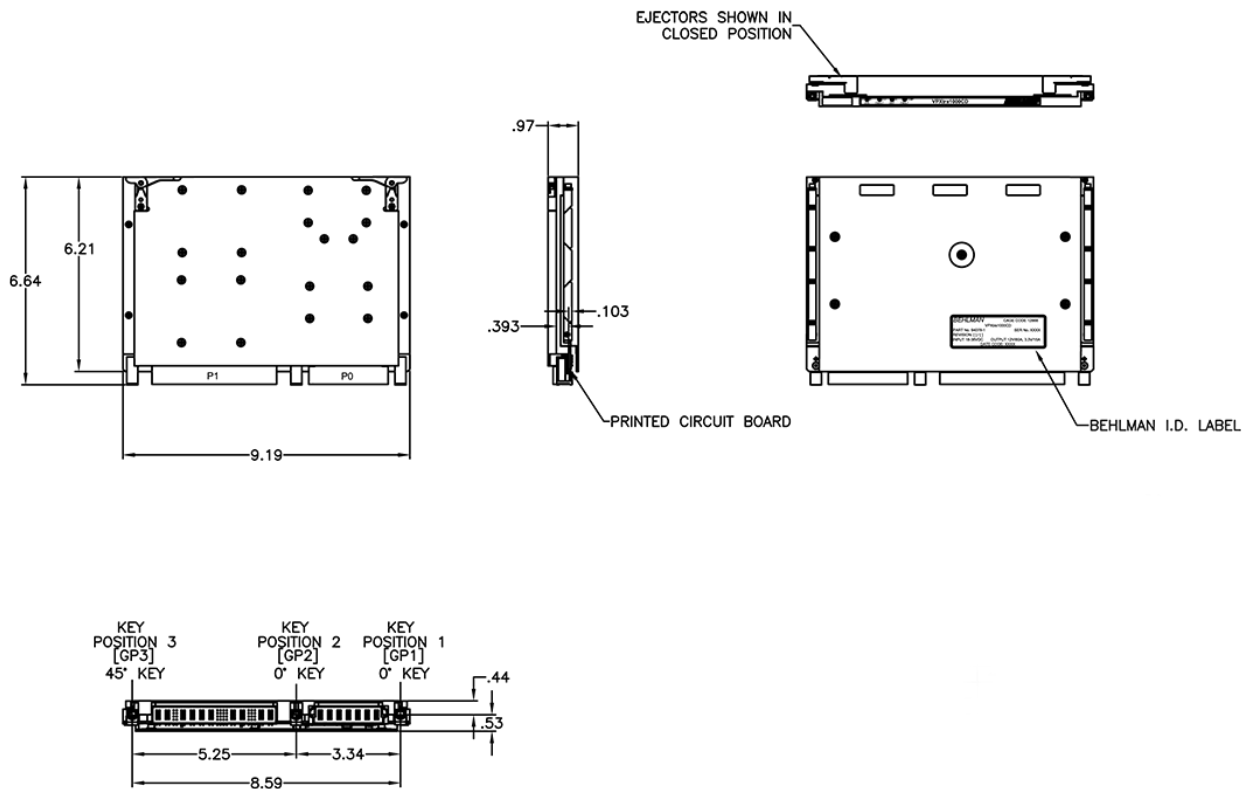
Designed to meet the following:

Shock: VITA 47 Class OS2

Vibration: VITA 47 Class V3

Humidity: VITA 47

VPXtra™ is a trademark of Behlman Electronics.  
 VPX is a trademark of VITA



For more detail, see VPXtra1000CD.DS Data sheets



VITA Member

[www.behlman.com](http://www.behlman.com)

**ORBIT POWER GROUP**  
**Behlman Electronics**

Headquarters:  
 80 Cabot Court, Hauppauge, NY 11788  
 631 435-0410 800 874-6727  
 Fax: 631 951-4341

2363 Teller Road, Suite 108  
 Newbury Park, CA 91320  
 805 375-7046 800 456-2006  
 Fax: 805 498-2147

[sales@behlman.com](mailto:sales@behlman.com)

