

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 PWA



6U Open VPX VITA 62 High Power Multi-Output Power Supply

The Behlman VPXtra™1000CM series 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™1000CM is a VITA 62, Open VPX compliant, 6U, power supply that delivers 700 Watts of DC power via five outputs. 12 volt output can be paralleled for higher power and redundancy. The VPXtra™1000CM can accept a 28 VDC input, IAW MIL-STD-704, and can supply a high power DC output at various power levels dependent on cooling capability.

The VPXtra™1000CM 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™ 1000CM your best choice.

INPUT

Voltage: -3 22 to 36 VDC
(18-36 VDC with de-rating)

OUTPUT

Power: 700 Watts maximum power
Voltage/Current:
 VS1/VS2 12 VDC +/- 2% @ 40 Amps
 VS3 5 VDC +/- 2% @ 24 Amps
 3.3 VDC +/- 3% @ 15 Amps
 Auxiliary: -12 VDC +/- 2% @ 2 Amps
 Auxiliary: +12 VDC +/- 2% @ 1 Amp
Line Regulation: 0.5% maximum
Load Regulation: 1.0% maximum (0-100%)
PARD-Ripple & Noise: 50mV p-p (0-20 MHz)
Efficiency: 90% at full load
87% at half load

PROTECTIVE CIRCUITS

Over Voltage: 120% typical
Over Current: 120% typical
Over Temp Warning
Over Temp

CONTROLS (12 & 5 VDC;-12 &+12 Aux IAW VITA 62)

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

INDICATORS (Four LED's for the following):

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

GENERAL CHARACTERISTICS

Isolation:

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

MTBF IAW MIL HDBK-217F Notice 2: 277,000 hrs

ENVIRONMENTAL (Temperature at card edge)

Temperature: (IAW VITA 47)

Operating: (CC3) -40°C to +71°C
 Storage: (C2) -40°C to +105°C

MECHANICAL (1.0 inch pitch)

Dimensions: 9.19"L x 6.64"W x .97"H
 Weight: 6.5 lbs
 Input Connector: P0- IAW O&C drawing 24149
 Output Connector: P1- IAW O&C drawing 24149

Designed to meet the following MIL Standards

Shock: MIL-STD-810
 Vibration: MIL-STD-810
 Humidity: MIL-STD-810
 EMI: MIL-STD-461

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

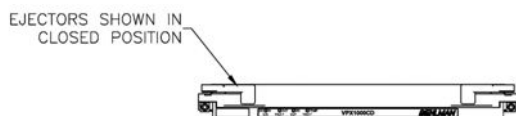


Fig 16: Face View

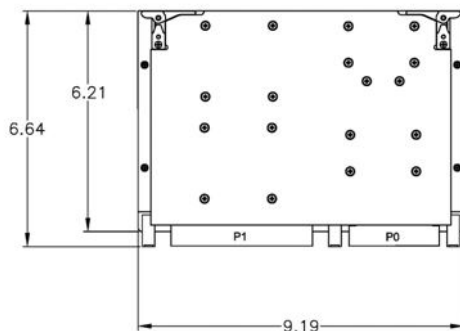


Fig 17: Top View

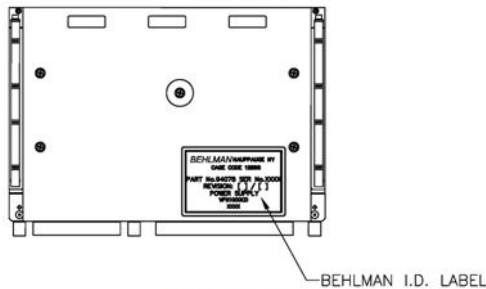


Fig 18: Bottom View

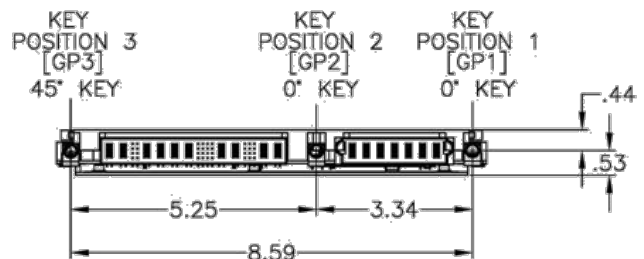


Fig 14: Connector View

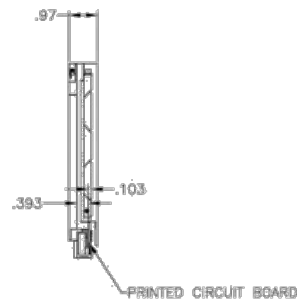


Fig 15: Side View



VITA Member

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