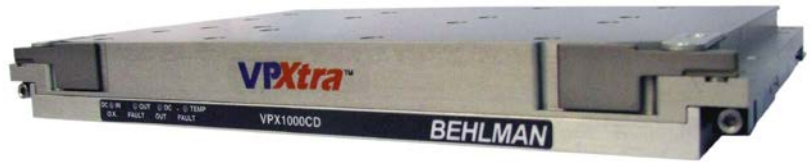


FEATURES

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



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

The Behlman VPXtra™1000CD 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™1000CD is a VITA 62, Open VPX compliant, 6U, power supply that delivers 1000 Watts of DC power with a 3.3 volt AUX. 12 volt output can be paralleled for higher power and redundancy. The VPXtra™1000CD 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™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: 22 to 36 VDC
(18-36 VDC with de-rating)

OUTPUT

Power: 1000 Watts
Voltage/Current: 12 VDC @ 80 Amps
3.3 VDC @ 15 Amps
Line Regulation: 12VDC - 0.25% max.
3.3VDC – 0.3% max.
Load Regulation: 12VDC – 0.25% max.
at 100% load
3.3VDC – 1.0% max.
at 100% load

PARD-Ripple & Noise: 50mV p.p. max
Efficiency: 90% typical at full load
91% typical at half load

PROTECTIVE CIRCUITS

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

CONTROLS (+12 VDC 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: 336,000 hrs.

ENVIRONMENTAL (Temperature at card edge)

- Temperature: (IAW VITA 47)
- Operating: (CC3) -40°C to +71°C
- Storage: -40°C to +105°C

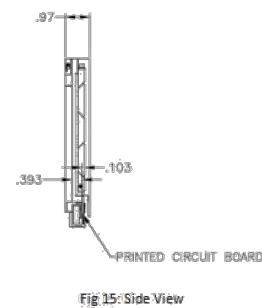
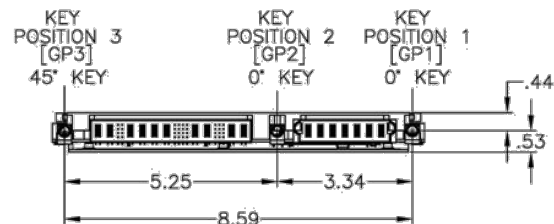
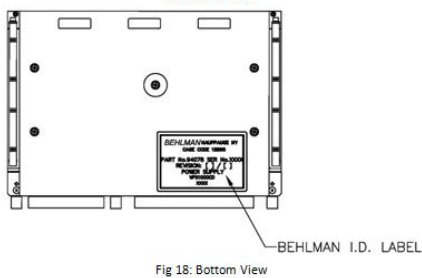
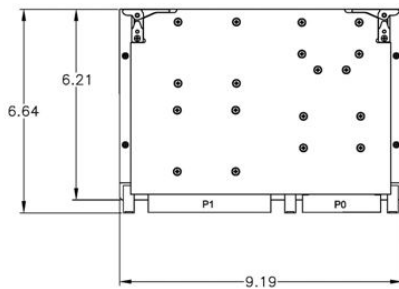
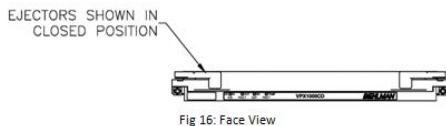
MECHANICAL (1.0 inch pitch)

- Dimensions: 9.19"L x 6.64"W x .97"H
- Weight: 3.5 lbs
- Input Connector: P0- IAW O&C drawing 24148
- Output Connector: P1- IAW O&C drawing 24148

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



For more detail, see VPXtra1000CD.DS Data sheets



VITA Member

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