

FEATURES

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



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 600 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: 600 Watts maximum power
(IAW VITA 47 CC2, See environmental specifications)
 475 Watts maximum power
(IAW VITA 47 CC3, See environmental specifications)

Voltage/Current:

VS1/VS2 12 VDC +/- 2% @ 40 Amps
VS3 5 VDC +/- 2% @ 24 Amps
Auxiliary: 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% typical

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):

Input OK: Green

Output Enable: Green

Output Fault: Red

Over Temp: Red

GENERAL CHARACTERISTICS

Isolation:

Input to Output: 500 VDC

Input to Case: 500 VDC

Output to Case: 500 VDC

ENVIRONMENTAL (Temperature at card edge)

Temperature: (IAW VITA 47)

Operating: (CC2) -40°C to +55°C

Operating: (CC3) -40°C to +70°C

Storage: (C2) -40°C to +85°C

MECHANICAL (1.0 inch pitch)

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

Weight: Approximately 6.0 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

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