Behlman Power Products

VPXtra

VPXtra™500M

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



3U Open VPX VITA 62 High Power Multi-Output Power Supply

The Behlman VP*Xtra*TM500M 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 VP*Xtra*TM500M is a VITA 62, Open VPX compliant, 3U power supply that delivers 560 Watts of DC power via six outputs. The 12V, 3.3V, and 5V main outputs can be paralleled for higher power. The VP*Xtra*TM500M can accept a 28 VDC input, IAW MIL-STD-704, and can supply a high power DC output at various power levels.

The VP*Xtra*™500M 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- $Cooling^{TM}$, Xtra- $Reliable^{TM}$ Design and Xtra- $Rugged^{TM}$ construction makes the Behlman $VPXtra^{TM}$ 500M your best choice.

INPUT

Voltage: 18 to 36 VDC

Operates below 22 VDC

with de-rating

OUTPUT

Power: 560 Watts

Voltage/Current:

VS1 12 VDC +/- 1% @ 25 Amps VS2 3.3 VDC +/- 1% @ 15 Amps VS3 5 VDC +/- 1% @ 40 Amps Auxiliary: 3.3 VDC +/- 1% @ 1 Amp Auxiliary: -12 VDC +/- 1% @ 0.375 Amps Auxiliary: +12 VDC +/- 1% @ 0.375

Amps

Efficiency:

Line Regulation: 0.5% maximum

Load Regulation: 2.0% maximum (0-100%) **PARD-Ripple & Noise:** 50mV p-p (0-20 MHz) for 3.3V

and 5V outputs.

120mV p-p for 12V and +12/-12V auxiliary outputs. 90% typical, 50-100% load

tes below 22 VDC

Over Voltage: 120% typical
Over Current: 120% typical
Short Circuit: Automatic recovery

Over Temp: Shutdown

CONTROLS (IAW VITA 62)

PROTECTIVE CIRCUITS

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

INDICATOR

DC STATUS LED: Bi-color LED (Red/Green)

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GENERAL CHARACTERISTICS

Isolation:

Input to Output: 500 VDC Input to Case: 500 VDC Output to Case: 500 VDC MTBF: 1,100,000hrs $G_h @ 50^{\circ}C$,

IAW MIL HDBK-217F Notice 2

ENVIRONMENTAL

Temperature at card edge (IAW VITA 47)

Operating: -40°C to +85°C -55°C to +105°C Storage:

MECHANICAL (1.0 inch pitch)

See O&C drawing 24163 for connector details

and pin assignment

Dimensions: 3.94"W x 6.63"L x .97"H

Weight: 1.7 lbs.

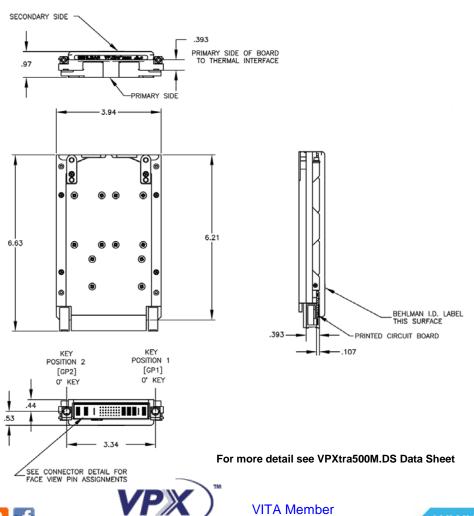
Connector: TE P/N: 6450849-7

COMPLIANCE

EMI (MIL-STD-461): CE102 Designed to meet the following:

Shock: VITA 47 Class OS2 Vibration: VITA 47 Class V3

Humidity: VITA 47





VITA Member

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