FEATURES

- Wide Input Range
- High Power DC Output
- 50 msec Hold-up for 700W† when used in conjunction with VPXtra800B
- Conduction Cooled at Card Edge
- Conformal Coating on PWA

The Behlman VPXtra® HU700HV COTS Hold-Up card is a rugged, highly reliable, conduction cooled, unit built for high-end industrial and military applications. The VPXtra® HU700HV is a 3U hold-up card expressly designed for use with Behlman’s VPXtra®800B power supply to provide sufficient energy storage to hold-up 700W† of DC power for 50 msec as specified by MIL-STD-704.

The power supply is designed to support the rigors of mission critical airborne, shipboard, vehicle and mobile applications.

Designed and manufactured with Xtra-Cooling, Xtra-Reliable Design and Xtra-Rugged construction makes the Behlman VPXtra® HU700HV your best choice.

INPUT

Voltage: 270 VDC (230-310 VDC)

Designed to meet the input power transients of MIL-STD-704 (A to F)

Grounding:

All input and output terminals (excluding the designated Chassis GND terminal) shall be isolated from the metal enclosure

HOLD-UP

Power: 700 Watts†

Time: 50 msec typ. (when used with VPXtra®800B)

Charging Time: 100 msec max

Discharge Time: Voltage at output pins shall be 30V or lower no more than 2 seconds after removal of source power

INDICATOR

Charge Status: Bi-color LED (Red/Green)

† Assumes nominal 115/200VAC or 270VDC source voltage; contact factory for characteristics at other source voltages

GENERAL CHARACTERISTICS

Isolation:

- Input to Output: 1000 VDC
- Input to Case: 1000 VDC
- Output to Case: 1000 VDC

MTBF: 1,668,117hrs G_R @ 55°C, IAW MIL HDBK-217F Notice 2

ENVIRONMENTAL

Temperature at card edge (IAW VITA 47)

Operating: -40°C to +85°C
Storage: -55°C to +105°C
Altitude: 70,000 ft.

COMPLIANCE

Designed to meet the following:

EMI: MIL-STD-461
Shock: VITA 47 Class OS2
Vibration: VITA 47 Class V3
Humidity: VITA 47
MECHANICAL (1.3 inch pitch)
See O&C drawing 24178 for connector details and pin assignments
Dimensions: 3.94"W x 6.63"L x 1.27"H
Weight: 1.6 lbs.
Connector: Behlman P/N: 11489
[Contact factory for mating connector]

For more details see VPXtra®800B.DS Data Sheet