

VPXtra® HU550LV1

FEATURES

- Wide Input Range
- 1.2(a) Slot Pitch IAW VITA 62.0
- High Power DC Pass-Through
- High Efficiency
- Automatic Discharge of Storage Capacitors
- Hold-Up 550 Watts for 50 msec
- Conduction Cooled at Card Edge
- Conformal Coating on PCB
- Designed to Meet MIL-STD-704F Input Transient
- READY* Signal Provides Status
- Designed to Meet MIL-STD-704F Input Transient Performance



3U VPX Energy Storage (Hold-Up) Card

The Behlman VPXtra®HU550LV1 COTS energy storage card is a rugged, highly reliable, conduction cooled, unit built for high-end industrial and military applications. The VPXtra®HU550LV1 is a 3U VPX hold-up card that accepts 28VDC input IAW MIL-STD-704F and supports up to 40 amperes of continuous pass-through current while providing sufficient energy storage to hold-up 550 Watts of DC power for 50 msec. The VPXtra®HU550LV1 is expressly designed for use with Behlman's VPXtra®500, VPXtra®700 and VPXtra®800 series 3U DC-DC power supplies.

This energy storage card 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®HU550LV1 your best choice.

INPUT

Voltage: 28 VDC (18-36 VDC)

OUTPUT:

Voltage: 18-36 VDC (pass-through)
Current: 40 Amps @ 85°C Rails
Hold-up Time: 50 msec @ 550W Output
Charging Time: 350 msec max
Discharge Time: Voltage at any connector pin shall be 30 V or lower 30 seconds after removing input power

PROTECTIVE CIRCUITS

Undervoltage: Inhibits charging operation only for source voltage less 21VDC; disables pass-through operation for source voltage less than 17VDC

Overtemperature: Shutdown w/Auto Recovery
Reverse Polarity: -36VDC (indefinite application)
Overvoltage: Shutdown w/Auto Recovery

INDICATORS

CHARGE STATUS: Bi-color LED (Red/Green)
OVERTEMP: Red LED

STATUS SIGNALS

READY*: Output, active low indicates internal storage elements are fully charged

GENERAL CHARACTERISTICS

Isolation:

Input to Case: 500 VDC

Output to Case: 500 VDC

Signal to Case: 500 VDC

MTBF: 319,796 hrs, G_F @ 55°C

IAW MIL HDBK-217F Notice 2

MECHANICAL (1.2 inch pitch)

See O&C drawing OC94097-1 for connector details and pin assignment

Dimensions: 3.94"W x 6.63"L x 1.16"H

Weight: 1.60 lbs. maximum

Mating Connector: TE Connectivity 2309390-1 or similar IAW VITA 62.0

ENVIRONMENTAL COMPLIANCE

(IAW VITA 47.1 Class ECC4SL1)

Temperature

Operating: -40°C to +85°C

Storage: -55°C to +105°C

Altitude: -1,500 to +70,000 ft.

Designed to meet the following:

Shock: VITA 47.1 Class OS2

Vibration: VITA 47.1 Class V3

EMI: MIL-STD-461G (Aircraft) *

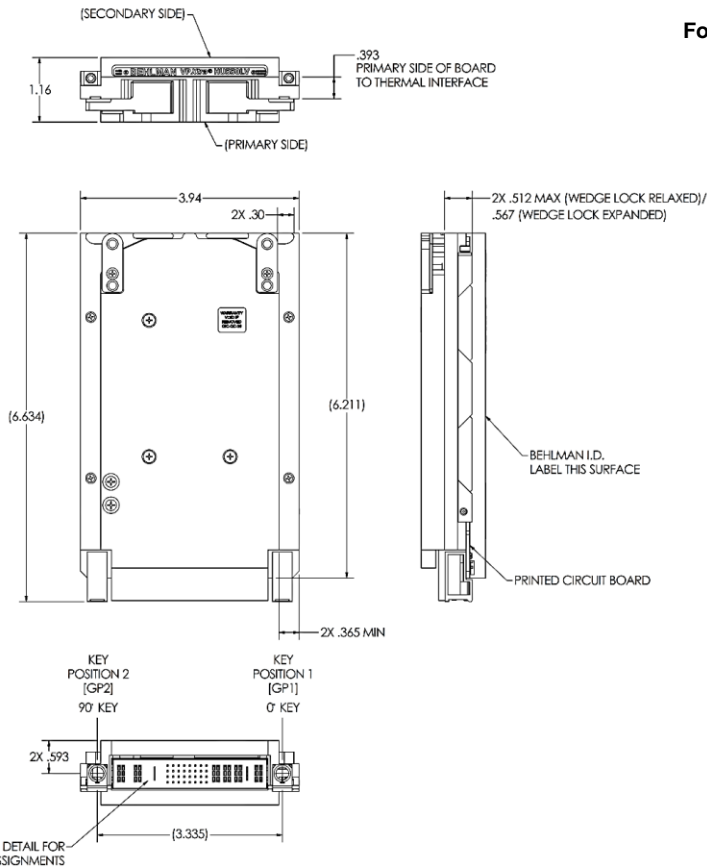
Humidity: VITA 47.1, up to 95% RH

Salt Fog: VITA 47.1, Class SL1

MIL-STD-704F: Including operation through normal transients

* External EMI filter required

For more detail see VPXtraHU550LV1.DS Data Sheet



VITA Member

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