

# VPXtra 800A & HU700HV Data Sheet

## P/N 94095 and 94096

#### **VPXtra800A FEATURES**

- Open VPX VITA 62 compliant
- 3U VPX, 1.0" pitch single slot
- Wide input range: 100-125VAC (L-N)
- Input transient protection
- One high power DC Output: +28V/30A
- Auxiliary DC Outputs: +3.3V Aux/0.4A
- Low noise & ripple
- Parallelable output (+28V/30A)
- Input-output isolation
- Excellent load regulation
- Overcurrent, Overvoltage, Over temperature protection
- Efficiency of 90% typical
- High power density
- Conduction cooled at card edge
- Conformal coating on PCB
- Designed to meet MIL-STD-461F
- ENABLE\*, INHIBIT\* controls per VITA 62
- Output voltage FAIL\* signal
- LED indication

#### VPXtraHU700HV FEATURES

- 3U VPX, 1.3" pitch
- Compatible with VPXtra800A
- 50msec hold-up typical at 800W
- Hold-up energy FAIL\* signal
- LED indication
- Conduction cooled at card edge
- Conformal coating on PCB



### **OVERVIEW**

The Behlman VP*Xtra*™800A 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 VP*Xtra*™800A is VITA 62, Open VPX compliant, 3U, power supply that delivers up to 1150 Watts of DC power via two outputs. The +28V output can be paralleled for higher power and redundancy. The VP*Xtra*™800A accepts 115VAC (L-N) input, IAW MIL-STD-704, and can supply a high-power DC output at various power levels dependent on cooling capability. When used in conjunction with VP*Xtra*™ HU700HV minimum hold-up time of 50msec at 800W of output power can be achieved.

The VP*Xtra*™800A 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*<sup>™</sup> technology, *Xtra-Reliable*<sup>™</sup> design and *Xtra-Rugged*<sup>™</sup> construction makes the Behlman VP*Xtra*<sup>™</sup>800A your best choice.

#### **Absolute Maximum Ratings:**

Parameter	Notes	Min	Max	Units
Input Voltage (continuous operation)	Line to Neutral (L-N), Three phase power	100	125	VAC
Input Current	@71°C Card Edge, 1150W Output Power		4	A
	@85°C Card Edge, 800W Output Power		3.1	A
Input Frequency		360	800	Hz
Operating Temperature	Measured at Card Edge	-40	85	С°
Maximum Output	Card Edge @ 85°C		800	W
Power	Card Edge @ 71°C		1150	W
Storage Temperature		-40	105	°C
Isolation Voltage	Input to Output		1000	V
Isolation Voltage	Input to Case		1000	V
Isolation Voltage	Output to Case		500	V
Isolation Resistance	Input to Case	10		MΩ