

### FEATURES

- Sine wave output
- AC and DC inputs with bypass
- Low output THD
- Unique overload protection
- Status and alarms



### UNINTERRUPTIBLE POWER USING YOUR BATTERIES AND/OR AC SOURCE

The Behlman ACDC-1200 Inverter delivers 1200 VA of clean, regulated AC power in a 5.25" high rack mount chassis. It was designed to operate reliably in a utility or industrial environment where power surges and transients are a concern. In the event of loss of AC input the ACDC will automatically switch to your DC source in ZERO time. The ACDC can be factory set for AC or DC primary input operation mode. The ACDC Inverter continuously conditions the incoming power, providing a high quality sine wave output with very little distortion.

The ACDC Inverter has all the features our customers have come to expect from Behlman; a clean regulated sine wave output with excellent line and load regulation, high efficiency and low harmonic distortion in a compact

enclosure. The ACDC Inverter contains a unique overload protection system that folds back the voltage to maintain maximum rated current without distorting the output waveform. The unit has LED indicators on the front panel and status and alarm contacts on the rear. These contacts can be utilized by a Supervisory Control And Data Acquisition (SCADA) system. In the event of an inverter failure the unit has an automatic bypass that switches in zero time to ensure that the output power is maintained

The ACDC Inverter is ideal for use in substations and utilities where sensitive station electronics require clean, surge protected and regulated AC.

### INPUT

#### Voltage:

**AC:** 120VAC +/- 10%, single-phase, 47-63 Hz

**DC:** 48 VDC +/- 20% or 125 VDC +/- 20%

Maximum DC burden (full load):

40 amps DC @ 38 VDC

15 amps DC @ 100 VDC

### OUTPUT

**Power:** 1200 VA

**Voltage:** 120 VAC +/- 5%, 60 Hz, isolated

**Current:** 10 Amps

**Crest Factor:** 3:1

**Power Factor:** 100% of rated output into any power factor load

**Distortion:** Less than 3% THD typical

**Line Regulation:** +/- 0.3% for +/- 10% line change

**Load Regulation:** +/- 1.0%, no load to full load

**Efficiency:** 80% typical

**Switch-over time:** Zero, AC-DC, or DC-AC

### PROTECTIVE CIRCUITS

**Input:** Main circuit breaker

**Constant Current:** Overload automatically causes voltage fold-back to provide maximum current without distorting output waveform

**Short Circuit:** Short circuit overload electronically latches output open to protect load... power restored by cycling input power

**Thermal:** Internal temperature sensor shuts off output to prevent heat damage

**Bypass:** If unit fails, the AC input will be routed to the output

### CONTROLS / INDICATORS

**Power On/Off:** Circuit breaker

**Indicators:** AC present, DC present, AC output and System OK

**Bypass Fuse:** 15 Amps

### ALARM CONTACTS

**Contact closures:** AC IN, DC IN, AC OUT, SYS OK

**Contact rating:** 0.6 Amps @ 125 VAC; 0.8 Amps @ 110 VDC; 2 Amps @ 30 VDC

## MECHANICAL & ENVIRONMENTAL

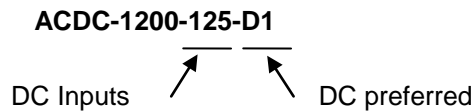
<b>Dimensions:</b>	High-strength rack-mount chassis 19"W X 5.25"H X 19"D (48.3 cm X 13.3 cm X 48.3 cm)	<b>Operating Temperature:</b>	-4° to 131° F (-20° to 55° C)
<b>Weight:</b>	65 lbs (29.5kgs)	<b>Humidity:</b>	Up to 95% non-condensing
<b>Input Connections:</b>	Barrier strip on rear	<b>SWC:</b>	Designed to meet IEEE C37.90.1
<b>Output Connections:</b>	Four NEMA 5-15 receptacles on rear	<b>Fast transient:</b>	Designed to meet IEEE C37.90.1
<b>Alarms Connections :</b>	Barrier strip on rear	<b>EMI:</b>	Designed for immunity to conducted & radiated EMI
		<b>RFI:</b>	Designed to meet IEEE C37.90.2-1997

### OPTIONS: *Contact factory for additional options*

- D1:** DC preferred. In the event the DC voltage goes below an acceptable value the input will switch to AC
- TB:** Barrier strip on rear in place of NEMA 5-15 receptacles



## MODEL SELECTION GUIDE



[www.behlman.com](http://www.behlman.com)

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