Behlman Power Products

Inverter

ACDC-1200

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 prevents 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

Inverter

MECHANICAL & ENVIRONMENTAL

Dimensions: 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)

Weight: 65 lbs (29.5kgs)
Input Connections: Barrier strip on rear

Output Connections: Four NEMA 5-15 receptacles

on rear

Alarms Connections : Barrier strip on rear

Operating Temperature: -4° to 131° F (-20° to 55° C)

Humidity: Up to 95% non-condensing

SWC: Designed to meet IEEE C37.90.1

Fast transient: Designed for immunity to conducted

& radiated EMI

RFI: Designed to meet IEEE C37.90.2-

1997

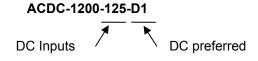
OPTIONS: Contact factory for additional options

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



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