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

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 to meet IEEE C37.90.1
EMI:	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

ACDC-1200-125-D1

DC Inputs

DC preferred

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