

FEATURES

- Sine wave or modified sine wave output
- Low output THD
- Unique overload protection
- Excellent Line & Load regulation
- Optional bypass with alarms



AC POWER USING YOUR DC SOURCE OR BATTERIES

The Behlman INV-1200 and INV-1210 DC to AC Inverters deliver 1200 VA of clean, regulated AC power in a 3.5" high rack mount chassis. You have a choice of a high quality sine wave output with very little distortion, INV-1200 or a well regulated modified sine wave output, INV-1210.

The standard unit is available as a simple inverter or with Option D1, a transfer circuit will switch the load to an AC input upon loss of the DC input or inverter. You could choose Option A1, with AC as the primary power with a transfer to the DC input upon loss of the AC. Both options come with front panel indicators and three form "C" contacts for alarms.

The INV-1200 is ideal for powering sensitive electronics that require clean, low distortion sine wave inputs like microprocessor based instruments and PLC's. The INV-1210, modified sine wave output is a low cost solution to power loads normally considered difficult for inverters like switching power supplies, motors and non-linear loads. The INV-1210 modified sine wave output has both peak and RMS value equivalent to a sine wave

If you have an application where you require AC power from your batteries or DC source Behlman's INV series is your best choice.

INPUT

Voltage:

DC: 48 VDC +/- 20% or 125 VDC +/- 20%
or 250 VDC +/- 20% (INV1200 only)
Maximum DC burden (full load):
40 amps DC @ 38 VDC, 15 amps DC @ 100 VDC
or 7.5 amps DC @ 200 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: <3% THD typical Model INV1200
Line Regulation: +/- 0.3% for +/- 10% line change
Load Regulation: +/- 2.0%, no load to full load
Efficiency: 80-85% typical

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: With Option D1, If unit fails, the AC input will be routed to the output. With front panel bypass fuse

CONTROLS / INDICATORS

Power On/Off: Circuit breaker
Indicators: AC IN, DC IN, INVERTER
Bypass Fuse: 15 Amps

ALARM CONTACTS with OPTION A1 or D1

Contact closures: AC IN, DC IN, Inverter OK
Contact rating: 0.6 Amps @ 125 VAC; 0.8 Amps @ 110 VDC; 2 Amps @ 30 VDC

MECHANICAL & ENVIRONMENTAL

| | | | |
|----------------------------|--|-------------------------------|---|
| Dimensions: | High-strength bench top chassis with rack-mount kit 17"W X 3.5"H X 17"D (43.2 cm X 8.9 cm X 43.2 cm) | Operating Temperature: | -4° to 131° F (-20° to 55° C) |
| Weight: | 25 lbs (11.3kgs) | Humidity: | Up to 95% non-condensing |
| Input Connections: | Barrier strip on rear | SWC: | Designed to meet IEEE C37.90.1 |
| Output Connections: | Two NEMA 5-15 receptacles on rear | Fast transient: | Designed to meet IEEE C37.90.1 |
| Alarms Connections: | Barrier strip on rear | EMI: | Designed for immunity to conducted & radiated EMI |
| | | RFI: | Designed to meet IEEE C37.90.2-1997 |

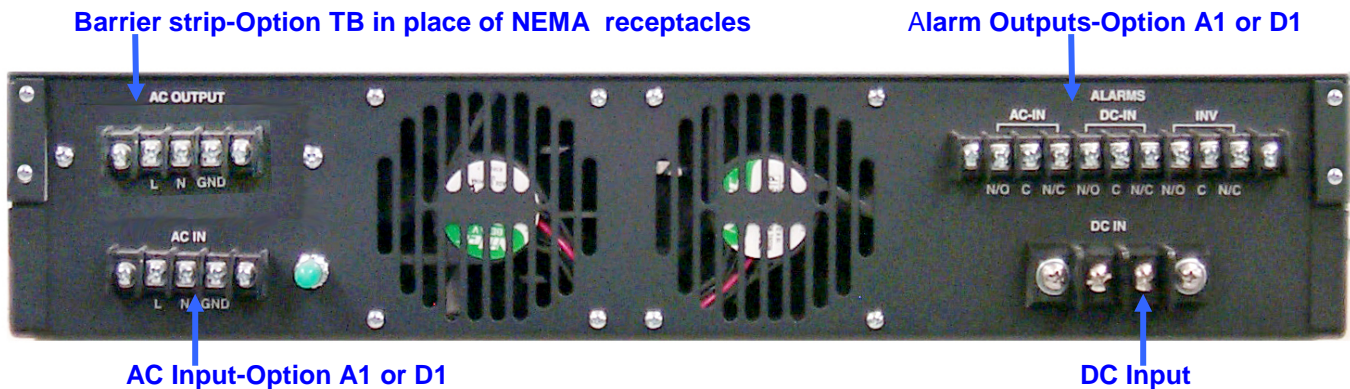
OPTIONS: *Contact factory for additional options*

D1: AC Input with Indicators and Alarms

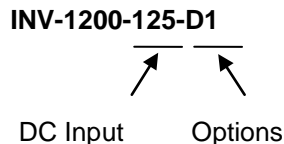
DC input primary. Includes AC input with "transfer circuit" to switch from DC input to AC input, in 300 msec typical, upon loss of DC input or inverter. Includes AC fuse, (3) indicators and (3) form "C" contacts for AC IN, DC IN and INV

A1: Same as Option D1 except AC is primary input with "transfer" to DC input upon loss of AC

TB: Barrier strip on rear in place of NEMA 5-15 receptacles



MODEL SELECTION GUIDE



www.behlman.com

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