

FEATURES

- 1200 Watts of AC Power
- 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

Behlman's new and improved INV-1200 (Gen 2) DC to AC Inverters deliver 1200 Watts of clean, regulated AC power in a 3.5" high rack mount chassis. All units come with an input circuit breaker, protective circuitry and LED indicators for DC present and Inverter OK.

The INV-1200 (Gen 2) is rated in watts, the amount of power we can deliver, unlike most inverters that are specified in Volt-Amps (VA), similar to a UPS (Uninterruptible Power Source). Units rated at 1200 VA would only supply 960 Watts at 0.8 pf or 840 watts at 0.7 pf

The standard INV-1200 (Gen 2) is available as a simple DC-AC inverter or you can add Option D1 that will switch

the load to an AC bypass input upon loss of the DC input or inverter. You alternately could choose Option A1, with AC bypass as the primary power with a transfer to the DC input upon loss of the AC. Both options come with a third front-panel "AC" indicator and three form "C" contacts for alarms.

The INV-1200 (Gen 2) is ideal for powering sensitive electronics that require clean, low-distortion sine wave inputs like microprocessor based instruments and PLCs.

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

INPUT

Voltage:

- DC: 48 VDC +/- 20% or
125 VDC +/- 20% or
250 VDC +/- 20%
- Maximum DC burden (full load):
40 amps DC @ 38 VDC, 15 amps DC @ 100 VDC
or 7.5 amps DC @ 200 VDC

AC: (A1/D1) options only) 130VAC max @ 30Amps (fuse)

OUTPUT

- Power: 1200 Watts
- Voltage: 120 VAC +/- 2%, 60 Hz, isolated
- Frequency: 60Hz +/- 0.1% (50Hz and 400Hz available)
- Current: 10 Amps RMS continuous, 30 Amps peak
- Crest Factor: 3:1
- Power Factor: 100% of rated output into any power factor load
- Distortion: <3% THD typical
- 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 rear panel bypass fuse (**NOTE: Bypass voltage range is 90 – 136VAC**)

CONTROLS / INDICATORS

- Power On/Off: Circuit breaker
- Bicolor LED: DC IN, INVERTER (OK)

ALARM CONTACTS with OPTION A1 or D1

- Contact closures: AC IN, DC IN, Inverter OK
- Contact rating: 0.5 Amps @ 125 VAC;
2 Amps @ 30 VDC

Inverter

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)

Weight: 25 lbs (11.3kgs)

Input Connections: Barrier strip on rear

Output Connections: Two NEMA 5-15R 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: AC Input with Indicators and Alarms

DC input primary. Includes AC input with "transfer circuit" to switch from DC input to AC bypass input, in less than 30 milliseconds, upon loss of DC input or inverter.

Includes AC fuse, third indicator (AC IN) and (3) form "C" contacts for AC IN, DC IN and INV

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

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

I: Transformer option for 220-240VAC output at 50Hz or 60Hz; requires additional 2U chassis

Barrier Strip-Option TB in place of NEMA receptacles

Alarm Outputs-Option A1 or D1



MODEL SELECTION GUIDE

INV-1200-125-D1

DC Input

Options



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