

## INVERTER SPECIFICATIONS

### Sine Wave Output:

INV1200-48, INV1200-125, INV1200-250,  
INV1200i-48, INV1200i-125, INV1200i-250

### Modified Sine Wave Output:

INV1210-48, INV1210-125  
INV1210i-48, INV1210i-125



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

### OUTPUT

Power: 1200 VA  
Voltage: 120 VAC +/- 5%, 60 Hz, Isolated and floating  
**Option i:** 230 VAC +/- 5%, 50 Hz, Isolated and Floating. Requires 2<sup>nd</sup> 3.5"H chassis.  
Crest Factor: 3 : 1  
Regulation: +/- 2%  
Waveform: **INV1200: Sine wave output. INV1210: Modified Sine Wave output**  
Distortion: Less than 3% THD typical, INV1200.  
Power Factor: 100% of rated output into any power factor load.  
Efficiency: 80 % typical

### PROTECTION CIRCUITS

Input: Circuit breaker, 48VDC & 125VDC. Fuse for 250VDC.  
Short Circuit Protection: Short circuit overload electronically latches output to protect load.  
Thermal Protection: Internal temperature sensor prevents heat damage.

### MECHANICAL SPECIFICATIONS

Dimensions: High strength Rack Mount chassis, 3.5"H x 17"W x 17"D.  
Weight: 25 lbs.. Option i adds 15 lbs.  
Input Connections: Barrier type terminals with # 8 screws  
Output Connections: Two NEMA 5-15 receptacles. **Option - TB:** Barrier type terminals

### ENVIRONMENTAL SPECIFICATIONS

Operating Temperature: 0 to +55 EC.  
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  
Seismic: Designed to meet IEEE 693-1997 Annex L

### OPTIONS

#### D1 - AC INPUT WITH, INDICATORS AND ALARMS

AC Mains Input of 120VAC, 60 Hz. Includes ATTransfer Circuit® to switch, in 2 msec typical, from DC input to AC input upon loss of DC. Includes AC fuse; (3) indicators for AC IN, DC IN, Inverter ON; (3) form AC® contacts for the following: NO DC IN, NO AC IN, Inverter Fail.

**A1:** AC Mains is primary input with ATTransfer® to DC input upon loss of AC. Alarms and indicators same as D1.

**TB:** Barrier type terminals, # 6 screws.

## BEHLMAN