

### PRODUCT OVERVIEW

## 500VA TO 2500VA POWER INVERTERS

SINE WAVE INVERTER  
250V<sub>DC</sub> TO 115V<sub>AC</sub>/60Hz



### FEATURES & APPLICATIONS

This rugged, DC/AC inverter system uses field proven, microprocessor controlled high frequency PWM technology to generate the required output power with pure sine wave output voltage.

The input and output are filtered for low noise. The use of components with established reliability results in high MTBF.

#### Features

- Conformal coating
- MOV protection
- Ruggedizing
- Filter on fans
- L-brackets included
- Rackmount options

#### Applications

- Steel Mill cranes

## MODEL SELECTION

- **500VA & 1000VA Power**
- **SINE WAVE INVERTER**
- **250V<sub>DC</sub> TO 115V<sub>AC</sub>/60Hz**



Model number	Major500-250	Major1000-250
Input Voltage	250Vdc nominal. 200-400Vdc operating range	
Input Current	3A max	6A max
Input Connection	Terminal block	
Output Voltage	115VAC/60Hz	
Output Current	4.4 A	8.7 A
Output Connection	NEMA 5-15R duplex receptacle	
Package Dimensions (WxHxL)	5.2" x 5.2" x 16" (132 x 132 x 407mm)	7.4" x 5.2" x 17" (187 x 132 x 432mm)
Weight	14 lbs (6.3 kg)	15 lbs (6.8 kg)

- **2000VA & 2500VA Power**
- **SINE WAVE INVERTER**
- **250V<sub>DC</sub> TO 115V<sub>AC</sub>/60Hz**



Model number	Major2000-250	Major2500-250
Input Voltage	250Vdc nominal. 200-400Vdc operating range	
Input Current	13A max	16A max
Input Connection	Terminal block	
Output Voltage	115VAC/60Hz	
Output Current	17.3 A	21.7 A
Output Connection	NEMA 5-20R duplex receptacle	Terminal block
Package Dimensions (WxHxL)	12" x 5.2" x 16" (305 x 132 x 406mm)	
Weight	25 lbs (11.5 kg)	

## TECHNICAL SPECIFICATIONS

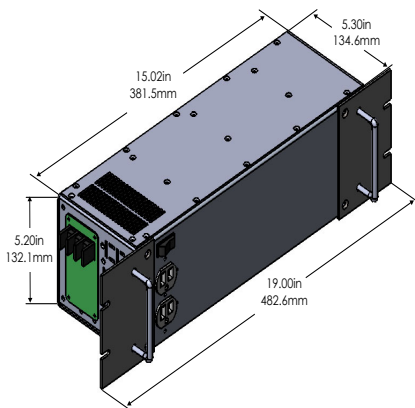
<b>Input Protection</b>	Inrush current limiting. MOV protection. Reverse polarity protection. Varistor. Internal safety fuse
<b>Isolation</b>	2250Vdc input to chassis/output Output neutral is connected to the chassis
<b>Output Wave Form</b>	Pure sine wave
<b>Total Harmonic Distortion</b>	Less than 5% at full load
<b>Line/Load Regulation</b>	±6% from no load to full load
<b>Load Crest Factor</b>	Maximum 2.5 at 90% load
<b>Output Noise</b>	High frequency ripple is less than 500mVrms (20MHz BW)
<b>Output Overload Protection</b>	Current limiting with short circuit protection. Thermal shutdown with automatic recovery
<b>Output Overvoltage Protection</b>	By internal supply voltage limiting at 140Vac
<b>Efficiency</b>	85% at full load

Safety Features	
<b>Standards</b>	Designed to meet C22.2 No. 107.1 - 01, UL 458 and EN60950-1, CE marking
<b>EMI</b>	EN 55022 Class A with margins
<b>RoHS</b>	Fully compliant
<b>Warranty</b>	Two years subject to application within good engineering practice

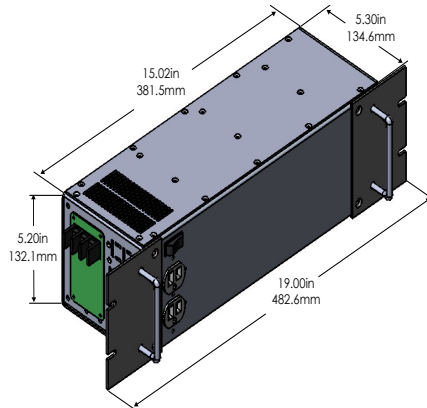
Environmental	
<b>Operating Temperature Range</b>	0° C to +50° C
<b>Cooling</b>	By built-in high quality fans
<b>Environmental Protection</b>	Basic ruggedizing. Conformal coating
<b>Shock/Vibration</b>	IEC 61373 Cat 1 A&B
<b>Humidity</b>	5 - 95% non-condensing

## DIMENSIONS

Major500



Major1000



Major2000  
Major2500

