



**2000W PURE SINE WAVE INVERTER  
DC12V TO AC120V**



Model:MEI 2000



**2000W PURE SINE WAVE INVERTER**  
**With Portable Carrying Case**  
User Instructions

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## SAFETY

Your safety and the safety of others is very important.  
We have provided many important safety messages in this manual and on your appliance.  
Always read and obey all safety messages.



This is the safety alert symbol.

This symbol alerts you to potential hazards that can cause serious injury to you and others.

All safety messages will follow the safety alert symbol.

All safety messages will tell you what the potential hazard is, tell you how to reduce the chance of injury, and tell you what can happen if the instructions are not followed.

### Specifications:

120V

60 Hz

2000/4000 Watts

Cables: UL3530 3AWG



## **IMPORTANT SAFEGUARDS**

**A person who has not read and understood all operating and safety instructions is not qualified to operate this appliance. All users of this appliance must read and understand this Instruction Manual before operating or cleaning this appliance.**

**When using electrical appliances, basic safety precautions should always be followed, including:**

1. Read all instructions before operating this appliance.
2. Do not operate the inverter if the carton or unit is seriously damaged by drop or pressure, or received a direct hit of force or is otherwise damaged.
3. Make sure no foreign objects are placed into AC Outlets or USB Port.
4. Do not dismantle inverter. Incorrect assembly may result in risk of electrical shock or fire.
5. To reduce the risk of electrical shock, disconnect both AC and DC power from inverter before any maintenance or cleaning.
6. Protect inverter from rain, snow, and water. Make sure carrying case is zipped to ensure no rain, snow or water get in. Make sure clear protective outlet cover is closed.
7. Internal inverter components remain charged after power is disconnected.
8. As a precaution - Keep Children away from inverter and its components! The same potentially hazardous or lethal AC power that is found in a normal household 120V/220V AC power outlet can be found in inverter.
9. Under no circumstances shall the user connect a live AC (household) power supply to inverter's AC socket, inverter will be damaged even if it is turned off. This unit can only take 12V dc battery power and invert it to 120V/220V AC household power. This unit is not a battery charger!
10. Inverter must be installed with an inline fuse in the positive (+) cable on the DC side of the inverter (between the battery and the inverter) at a distance of seven inches from the battery connection.

## **ADDITIONAL IMPORTANT SAFEGUARDS**

### **Personal Safety Precautions**

1. Someone should be within the range of your voice or close enough to come to your aid when installing inverter or working near lead acid batteries.
2. Wear complete eye protection and protective clothing. Avoid touching eyes while working on or with batteries. Keep plenty of soap and water nearby in case of battery acid comes in contact with skin, clothing or eyes.
3. If battery acid comes in contact with skin or clothing, wash immediately with soap water. If acid enters into the eye(s), flood eye(s) with running water for at least 10 minutes and get medical attention immediately.
4. Never smoke or make a spark or a flame in the vicinity of a battery or engine.
5. Be extra cautious to reduce the risk of dropping a metal tool onto a battery. It may spark or short-circuit the battery or other electrical parts that may cause an explosion.
6. Remove all personal metal items such as rings, bracelets, necklaces, watches and jewelry when working near a battery. A battery can produce a short circuit high enough to weld a ring or any metal, causing serious burns.
7. Never charge or invert power from a frozen battery.

## **INTRODUCTION**

Inverter Power Source provides 2000 watts continuous, 4000 watts peak standard household AC power. Power up the core essentials of you house during emergencies or power up your every day appliances - all you need is a vehicle battery! Inverter Power Source will keep your gas furnace or sump pump running like normal and will use extra power for fridges, freezers, a few lights or computers, or even a blow dryer or curling iron on low setting.



- Lightweight and convenient - at just 14 pounds, this inverter hooks up in a minute, and powers your home essentials for days.
- Perfect for emergencies, tailgating, camping, or hanging out at the beach.
- Environmentally superior - depending on the date of the gas generator it may have.
- Electric/hybrid cars work great with inverter, and in the case of a pure electric vehicle you use no gasoline at all.
- Longer runtime than any gas generator-you get 50-70 hours of runtime from your car gas tank, versus refilling a small gas generator tank every 4-6 hours.
- Running a compact sedan at idle uses less gasoline than running a standard generator.
- Hassle free no maintenance or oil changes ever.
- Comes fully assembled.
- Heat and weather resistant case works in rain.
- **WARNING:** Improper use of the grounding plug can result in a risk of electric shock. If the plug does not fit fully into the outlet,contact a qualified electrician. Do not attempt to modify the plug in any way.The plug must be plugged into an outlet that is properly installed and grounded.
- The manufacturer does not recommend using this machine in countries that do not support 120V AC even if a voltage adapter, transformer, or converter is in use.

#### **ENVIRONMENTAL WARNINGS:**

- Inverter should operate fine under 90°F. Overheat protection will kick in after three hours if temperature exceeds 95°F, 100 minutes at 104°F and 50 minutes at 113°F.
- Case is weather resistant and not waterproof, meaning it's designed to withstand light exposure to the elements - sun, rain, wind and snow.

## **SAVE THESE INSTRUCTIONS!**

### **HOWTO OPERATE**

## CONNECT TO VEHICLE BATTERY

- Make sure the POWER is off on inverter and your vehicle is not running.



- Connect the Positive (+) battery cable to the positive (+) battery terminal.
- Connect the Negative (-) battery cable to the negative (-) battery terminal.
- Verify the battery voltage is within the proper range for this unit (roughly 10-15.5 volts DC). If not, DO NOT USE inverter.
- Turn the vehicle on.

## OPERATING THE INVERTER

1. Push the POWER button on the inverter to turn on. The Inverter POWER LED light illuminates Green and LCD display with illuminate.



2. Plug an appliance of equal watts or less than 2000 into the AC outlet. There are four 120V AC outlets and one USB port.

**NOTE:** Clear protective outlet cover is attached by Velcro, lift up to access AC outlets. Extension cords may be used to help reach appliances that need to be powered - such as household items.

**CAUTION:** If you plug in too many appliances that exceed 2,000 running watts (4,000 peak), Inverter will turn off (overload protection) and the Protect LED light illuminates Red. See protection functions below.

3. Turn the appliance ON to verify that it operates.

**NOTE:** LCD display shows wattage and voltage being used. It cannot run more than 2000W at a time or it will turn off automatically. When wattage reaches 1000, it will transition into kilowatts. 2000 watts would read 2 KW on the display.

4. When you are finished using your appliances, turn off and unplug from inverter.
5. Press POWER an inverter to turn off, Green light will turn off.
6. Turn vehicle off.

7. Remove the Positive (+) battery cable from the positive (+) battery terminal.
8. Remove the Negative (-) battery cable from the negative (-) battery terminal.
9. If Protect light illuminates Red, see the Inverter "Troubleshooting" section.

### PROTECTION FUNCTIONS:

The POWER button turns inverter On or Off.

- In the On position, Inverter Power LED/LCD Display light illuminates Green. The unit begins inverting and provides AC power.
- In the Off position, inverter draws no current from the battery. No front panel LED/LCD Display lights are illuminated.

When the RED Protection light indicates, it means there is a fault. That may include:

- Low Battery Shutdown Protection

- Over Voltage Protection
- Overload Protection
- Over temperature Protection
- Output Short Circuit Protection

**WHAT YOU CAN POWER UP**

**NOTE:** These are not exact operating wattage, just close estimates. Each appliance will vary and may exceed the 2,000 watts.

APPLIANCE	START UP WATTS	OPERATING WATTS
Furnace	1,400	700
Portable Heater	1,800	1,500
Well pump	1,500	750
Sump Pump	3,200	1,700
Refrigerator	1,500	800
Freezer	2,000	800
Clothes Washer	1,500	750
Light Bulb	60	60
Home Security Alarm	100	100
Radio	100	100
TV/Computer	350	350
Micro-wave	750	750
Coffee Maker	850	850
Electric Skillet	1,200	1,200
Crock pot	250	250
Toaster	1,100	1,100
Circular Saw	1,500	750
Heater	1,500	1,500
Hand drill	750	500

**HELPFUL TIPS**

POSSIBLE CAUSE	SOLUTION
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The POWER is off	Turn on by pressing the POWER button
No input voltage	Check whether the DC connection of inverter is loose or damaged.
The DC fuse has broken	Check that the user has installed and complies with standard fuses. Please check and replace the internal fuse by qualified maintenance technician.
AC circuit breaker has tripped	Disconnect all appliances to reduce the overload, then turn it off to reset the device and back to on again.
LCD display screen shows OVP fault code	Over voltage Protection started. Check the battery voltage whether within the working, voltage range, and the output can be restored.
LCD display screen shows UVP fault code	Low-voltage Protection started. Check the battery voltage whether within the working, voltage range, and the output can be restored.
LCD display screen shows OTP fault code	Over temperature Protection started. Check whether the fan turns, and the output can be resumed after the temperature drops.
LCD display screen shows OLP fault code	Overload Protection started. Check whether the load exceeds the rated power, and the output can be resumed after reducing the power.
LCD display screen shows SCP fault code	Output Short Circuit Protection started. Check whether there is short circuit in the load, and the output can be resumed after the short circuit is removed.
Internal temperature has not reached the fan's start value	No action. The fan will turns on automatically when the internal temperature reaches the fan's start value.
Fan is damaged	Please check and replace the internal fan by qualified maintenance technician.

## SPECIFICATIONS

MODEL	MEI 2000
Continuous Output	2000W (total),15A max.for each AC socket



Surge Power	4000W
Input Voltage	12 V
AC Voltage	120V
Frequency	60Hz
Wave Form	Pure Sine Wave
Total Harmonic Distortion	THD $\leq$ 3%
USB Output	DC 5V $\pm$ 5% 2400mA AUTO
Under voltage Protection	10.5V $\pm$ 0.5V
Over voltage Protection	15.5V $\pm$ 0.5V
No Load Current	650MA
Efficiency	90%
Overload Protection	2400W $\pm$ 100W
Output Short Circuit Protection	YES
Anti-Reverse Protection	Built in fuse
Display Mode	LCD+LED
Cooling Fan	Start up : 113°F $\pm$ 41°F Shut down : 100°F $\pm$ 41°F Over temperature shutdown : 203°F $\pm$ 41°F Over temperature recovery : 149°F $\pm$ 41°F
Fuse	12*25A
Dimensions(inch)	12.95+1.34(D)*7.52(W)*3.86(H)
Weight	14 Lbs.

## Warranty & Customer Service Support

We offer a 1-year warranty against manufacturing defects.

If you have any questions or issues, please Email our customer service team for help

at [customerservice@massimomotor.com](mailto:customerservice@massimomotor.com)

Massimo MotorSports LLC

Address: 3101 W Miller Road, Garland, TX 75041, USA

Phone: 877-881-6376

