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› EARNMee 6000W Pure Sine Wave Power Inverter 12V User Manual

EARNMee 6000W12V

EARNMee 6000W Pure Sine Wave Power Inverter 12V User Manual

Model: 6000W12V

1. INTRODUCTION

The EARNMee 6000W Pure Sine Wave Power Inverter 12V converts 12V DC battery power into 110V AC household power. This device is designed to provide stable and clean electricity for various applications, including RVs, trucks, off-grid systems, and home backup power. It features an LED display, 18W USB fast charging, and multiple protection mechanisms to ensure safe and efficient operation.



RV

Outdoors



Power outage

Solar power



Figure 1.1: The EARNMee 6000W Pure Sine Wave Power Inverter can be used in various settings such as RVs, during power outages, for outdoor activities, and with solar power systems.

2. SAFETY INFORMATION

Please read and understand all safety instructions before operating the inverter. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Ventilation:** Ensure adequate ventilation around the inverter. Do not block ventilation openings.
- **Environment:** Operate the inverter in a dry, well-ventilated area, away from direct sunlight, heat sources, and flammable materials. Avoid exposure to moisture or water.
- **Connections:** Always connect the inverter to a 12V DC power source. Ensure all connections are tight and secure to prevent sparks and overheating.
- **Grounding:** The inverter must be properly grounded.

- **Load Capacity:** Do not exceed the inverter's rated continuous power output of 6000W. The peak power is 12000W.
- **Children:** Keep the inverter out of reach of children.
- **Maintenance:** Do not attempt to open or modify the inverter. Refer all servicing to qualified personnel.

3. PACKAGE CONTENTS

Upon unpacking, please verify that all items listed below are included and in good condition:

- EARNMee 6000W Pure Sine Wave Power Inverter (Product Host)
- Instruction Manual
- Copper Core Wires (for battery connection)
- Fuses
- Packaging Box



Figure 3.1: Contents of the EARNMee 6000W Pure Sine Wave Power Inverter package.

4. PRODUCT OVERVIEW

The EARNMee 6000W Pure Sine Wave Power Inverter is engineered for reliability and performance, providing clean and stable power for sensitive electronics.

4.1 Key Features

- **Pure Sine Wave Output:** Delivers stable power (THD \leq 3%) suitable for sensitive electronics like car fridges, truck GPS, and CPAP machines, minimizing interference.
- **High Efficiency:** Achieves 88% efficiency, maximizing battery output.
- **Multi-Protection System:** Features 6-way protection against low/over battery voltage, overload, short circuit, over-temperature, and reverse polarity.
- **LED Display:** Provides real-time monitoring of battery voltage, output voltage, output frequency, battery level, and load power.
- **Fast Charging:** Equipped with 18W USB ports for quick charging of smartphones and tablets.
- **Smart Cooling System:** An auto-adjusting fan operates quietly and efficiently to maintain optimal temperature.
- **Durable Construction:** Robust design with magnesium aluminum alloy shell material for sequential heat dissipation and resistance to vibrations.



Figure 4.1: Front view of the EARNMee 6000W Pure Sine Wave Power Inverter.

Pure Sine Wave

LOW LOSS AND HIGH CONVERSION

The output current is the same as household electricity, and the conversion efficiency of electricity is high.

Reduce conversion losses and sustain output.



Figure 4.2: The inverter offers low loss and high conversion efficiency.

Cooperate with magnesium aluminum alloy shell material.
Sequential heat dissipation to protect the body.



Figure 4.3: The inverter features a smart cooling system with an auto-adjusting fan and magnesium aluminum alloy shell for efficient heat dissipation.

LED Display Screen

Real time intelligent display

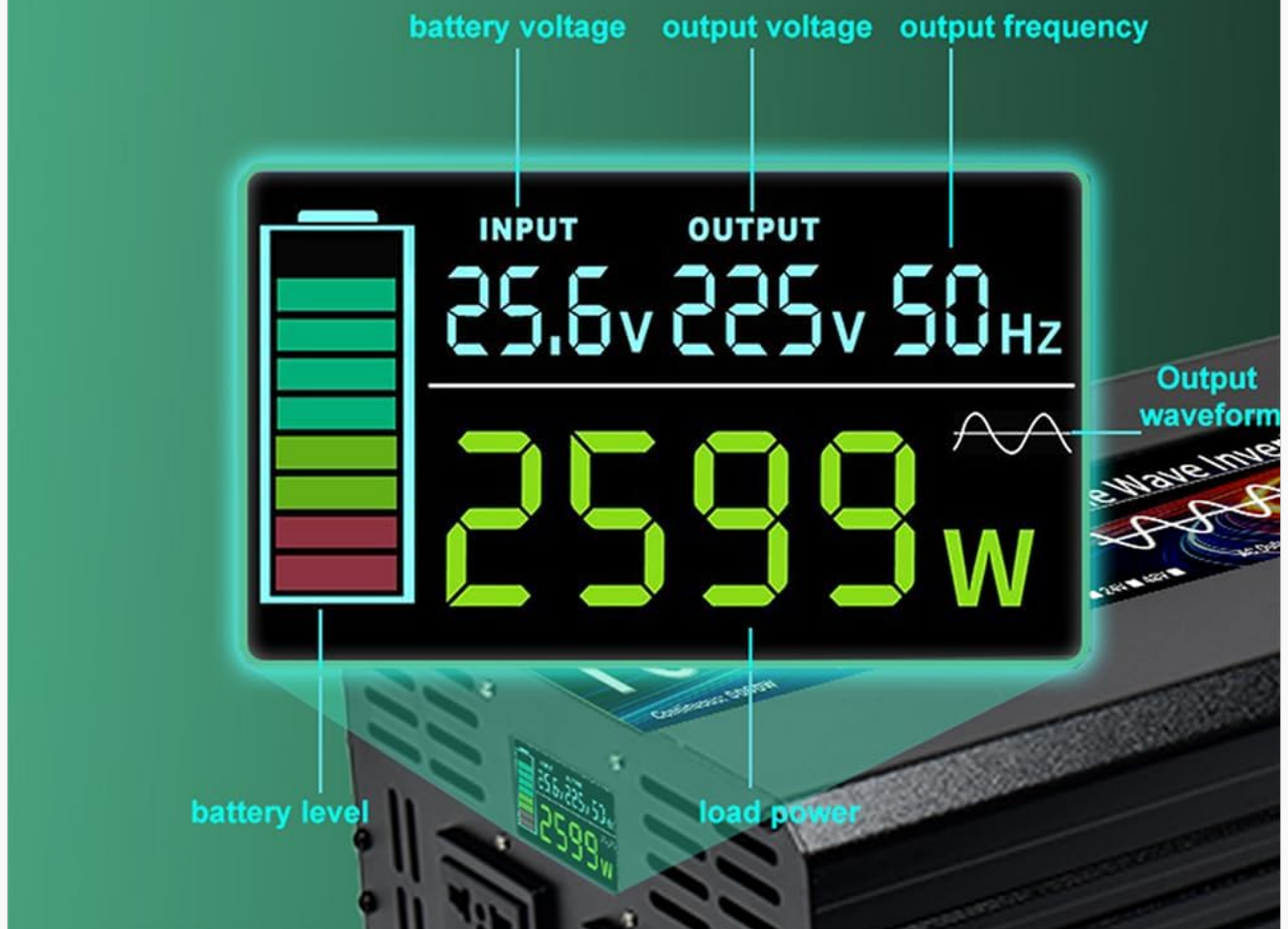


Figure 4.4: The LED display provides real-time operational data.

5. SETUP INSTRUCTIONS

Follow these steps for proper installation and setup of your EARNMee power inverter.

5.1 Choosing a Location

- Install the inverter in a cool, dry, and well-ventilated area.
- Avoid areas with direct sunlight, high temperatures, or excessive moisture.
- Ensure there is sufficient space around the inverter for airflow, especially around the cooling fans.
- Mount the inverter securely on a stable surface to prevent movement or vibration.

5.2 Battery Connection

1. Ensure the inverter's power switch is in the 'OFF' position.
2. Connect the red (positive) copper core wire to the positive (+) terminal of your 12V battery.
3. Connect the other end of the red wire to the positive (+) input terminal on the inverter.
4. Connect the black (negative) copper core wire to the negative (-) terminal of your 12V battery.

5. Connect the other end of the black wire to the negative (-) input terminal on the inverter.
6. Ensure all connections are tight and secure. Loose connections can cause overheating and damage.

Warning: Incorrect polarity connection will damage the inverter and void the warranty. Always double-check connections before powering on.

6. OPERATING INSTRUCTIONS

Once the inverter is properly installed and connected to a 12V battery, follow these steps to operate it.

6.1 Powering On the Inverter

1. After ensuring all battery connections are secure, switch the inverter's power button to the 'ON' position.
2. The LED display will illuminate, showing the battery voltage, output voltage, and other operational parameters.
3. The cooling fan may briefly activate during startup or when the inverter detects a load.

6.2 Connecting AC Devices

1. Plug your AC devices into the AC output sockets on the inverter.
2. Ensure the total wattage of all connected devices does not exceed the inverter's continuous output of 6000W.
3. For devices with high startup current (e.g., motors, compressors), ensure their surge power requirement is within the inverter's 12000W peak capacity.

6.3 Using USB Charging Ports

The inverter includes 18W USB ports for charging compatible devices. Simply plug your USB charging cable into the port and connect your device.

6.4 Monitoring the LED Display

The LED display provides critical information:

- **Battery Voltage:** Shows the current voltage of your 12V battery.
- **Output Voltage:** Displays the AC output voltage (e.g., 110V).
- **Output Frequency:** Indicates the AC output frequency (e.g., 60Hz).
- **Battery Level:** A graphical representation of the battery's charge status.
- **Load Power:** Shows the current power consumption of connected devices in watts.
- **Output Waveform:** Confirms pure sine wave output.

6.5 Powering Off the Inverter

1. Disconnect all AC devices from the inverter.
2. Switch the inverter's power button to the 'OFF' position.

7. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your inverter.

- **Cleaning:** Periodically clean the exterior of the inverter with a dry, soft cloth. Do not use liquid cleaners or solvents. Ensure ventilation openings are free from dust and debris.
- **Connections:** Regularly check all battery and AC connections to ensure they are tight and free from corrosion.
- **Storage:** If storing the inverter for an extended period, disconnect it from the battery and store it in a cool, dry place.
- **Fuse Replacement:** If a fuse blows, replace it with a fuse of the same type and rating. Refer to the specifications

for fuse details.

8. TROUBLESHOOTING

This section addresses common issues you might encounter with your inverter.

Problem	Possible Cause	Solution
No power output / Inverter not turning on	<ul style="list-style-type: none">Loose battery connectionsLow battery voltageBlown fuseInverter switch is OFF	<ul style="list-style-type: none">Check and tighten battery cables.Recharge or replace the battery.Check and replace fuses if necessary.Ensure the power switch is ON.
Overload alarm / Inverter shuts down	<ul style="list-style-type: none">Connected load exceeds 6000W continuous outputDevice surge power exceeds 12000W peak	<ul style="list-style-type: none">Reduce the total load by disconnecting some devices.Ensure high-surge devices are within peak capacity.Restart the inverter.
Over-temperature alarm / Inverter shuts down	<ul style="list-style-type: none">Poor ventilationHigh ambient temperatureExcessive load	<ul style="list-style-type: none">Ensure clear airflow around the inverter.Move the inverter to a cooler location.Reduce the connected load.Allow the inverter to cool down before restarting.
Short circuit protection activated	Short circuit in connected device or wiring	<ul style="list-style-type: none">Disconnect all AC devices.Inspect devices and wiring for faults.Reconnect devices one by one to identify the faulty one.Restart the inverter.

9. SPECIFICATIONS

Detailed technical specifications for the EARNMee 6000W Pure Sine Wave Power Inverter 12V.

Feature	Specification
Model Name	6000W12V
Continuous Wattage	6000 watts
Peak Wattage	12000 watts
Input Voltage	12V DC

Feature	Specification
Output Voltage	110V AC
Output Waveform	Pure Sine Wave (THD≤3%)
Efficiency	88%
USB Output	18W USB Fast Charging
Protection Features	Low/Over Battery Voltage, Overload, Short Circuit, Over-Temperature, Reverse Polarity
Cooling System	Smart Cooling Fan
Product Dimensions	19.88 x 8.07 x 6.5 inches (50.5 x 20.5 x 16.5 cm)
Item Weight	23.7 pounds (10.75 kg)
Power Source	Solar and Battery Powered
Recommended Uses	Home, Office, Vehicle, Camp, Road Trip



Figure 9.1: Product dimensions of the EARNMee 6000W Pure Sine Wave Power Inverter.

10. WARRANTY AND SUPPORT

The EARNMee 6000W Pure Sine Wave Power Inverter is designed for reliable longevity and stands up to automotive use conditions. For any technical assistance, troubleshooting, or warranty inquiries, please contact EARNMee customer support. We offer 24/7 support to ensure your power needs are met wherever you are. For support, please refer to the contact information provided with your purchase or visit the official EARNMee website.