

[Manuals.plus](#) /

› [OUBOTEK](#) /

› OUBOTEK 1500W Pure Sine Wave Power Inverter Instruction Manual (Model TP1500W)

OUBOTEK TP1500W

OUBOTEK 1500W Pure Sine Wave Power Inverter Instruction Manual

Model: TP1500W

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your OUBOTEK 1500W Pure Sine Wave Power Inverter. Please read this manual thoroughly before using the product and retain it for future reference. This inverter converts 12V DC power from a battery into 120V AC household power, suitable for a wide range of electronic devices and appliances.

2. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 1 x OUBOTEK 1500W Pure Sine Wave Inverter
- 1 x Wireless Remote Controller
- 1 x Wireless Remote Module
- 1 x 9.8ft Remote Wire
- 1 x White Charging Wire for Remote Controller
- 1 x Adhesive Pad for Remote Controller
- 1 x 6AWG Battery Cable Set (1.64ft, Red & Black)
- 6 x 40A Spare Fuses
- 1 x Wrench
- 1 x User Manual



Image: OUBOTEK 1500W Pure Sine Wave Power Inverter and its complete set of accessories, including cables, remote, and fuses.

3. PRODUCT FEATURES

- **Pure Sine Wave Output:** Provides clean and stable power, ideal for sensitive electronics.
- **High Power Output:** 1500W continuous power, 3000W peak power.
- **Multiple AC Outlets:** Equipped with 4 standard AC outlets.
- **USB & Type-C Charging:** Includes 2 x 18W USB fast charging ports and 1 x 30W Type-C port.
- **Advanced Remote Control:** Supports both wireless and wired operation with an LCD display for monitoring.
- **Smart Cooling System:** Integrated fans activate based on temperature and load to maintain optimal performance.
- **Comprehensive Protection:** Features overload, low voltage, over temperature, overcurrent, and short circuit protection.

Multiple Protection Functions



**OVERLOAD
PROTECTION**



**SHORT CIRCUIT
PROTECTION**



**OVERHEAT
PROTECTION**



**OVERCURRENT
PROTECTION**



**LOW VOLTAGE
PROTECTION**



**OVER VOLTAGE
PROTECTION**



Image: Diagram illustrating the multiple protection functions of the OUBOTEK 1500W inverter, including overload, short circuit, overheat, overcurrent, low voltage, and over voltage protection.

4. SAFETY INFORMATION

Always prioritize safety when installing and operating the inverter. Failure to follow these instructions may result in serious injury or damage to the inverter and connected devices.

General Safety Precautions:

- Keep the inverter away from children.
- Ensure adequate ventilation around the inverter to prevent overheating.
- Do not expose the inverter to water, rain, or snow.
- Avoid reverse polarity connections. The inverter includes fuses for reverse polarity protection, but incorrect wiring can still cause damage.
- Always connect the inverter to a properly grounded battery system.
- Do not connect the inverter to utility power or AC distribution wiring.

5. SETUP & INSTALLATION

Follow these steps for proper installation:

1. **Prepare the Battery:** Ensure your 12V battery is fully charged and in good condition.
2. **Connect Battery Cables:** Attach the red (positive) battery cable to the red terminal on the inverter and the positive terminal of your battery. Attach the black (negative) battery cable to the black terminal on the inverter and the negative terminal of your battery. Ensure connections are tight.
3. **Grounding:** Connect a grounding wire from the inverter's grounding terminal to a suitable ground point.
4. **Remote Control Setup (Optional):**
 - For wireless operation, plug the wireless remote module into the inverter's remote port.
 - For wired operation, connect the 9.8ft remote wire from the inverter's remote port to the wired remote controller.

Your browser does not support the video tag.

Video: This official seller video demonstrates how to connect the 1500W inverter to a 12V battery, highlighting the positive and negative terminals. It also shows the connection of the wireless remote module and the wired remote controller.



Image: The OUBOTEK 1500W Pure Sine Wave Power Inverter with its wired remote controller connected, showing the setup for remote operation.

6. OPERATING INSTRUCTIONS

Turning On/Off:

- **Directly on Inverter:** Press the ON/OFF button on the inverter's front panel.
- **Using Remote Control:** Press the ON/OFF button on the remote controller.

LCD Display Information:

The smart LCD display provides real-time operational data:

- Battery Voltage (Input)
- AC Output Voltage
- Output Frequency
- AC Loading Power (Wattage)
- Output Waveform (Pure Sine Wave)
- Error Indicators: OV (Over Voltage), LV (Low Voltage), OT (Over Temperature), OL (Over Load), SC (Short Circuit)



Image: Detailed view of the Smart LCD display on the OUBOTEK 1500W inverter, showing indicators for battery voltage, AC

output voltage, output frequency, AC loading power, output waveform, and various protection warnings.

7. REMOTE CONTROL OPERATION

The upgraded remote controller offers flexible control options:

- **Wireless Control:** Once the wireless module is plugged into the inverter, the remote can operate the inverter from a distance of 164ft-328ft (50m-100m).
- **Wired Control:** Connect the remote controller directly to the inverter using the provided 9.8ft remote wire for reliable control.
- **Remote LCD Display:** The remote features an LCD screen that mirrors the inverter's main display, allowing you to monitor status and output from your control point.



Image: The OUBOTEK 1500W inverter demonstrating its long-distance wireless remote control capability, showing the remote module and the remote LCD display in an outdoor setting.

8. APPLICATIONS

The OUBOTEK 1500W Pure Sine Wave Power Inverter is designed for versatile use in various scenarios:

- Recreational Vehicles (RVs)
- Camping and Outdoor Activities
- Solar Off-Grid Systems
- Power Outages
- Powering Laptops, Smartphones, Tablets, TVs, and small appliances.
- Operating power tools like electric drills and angle grinders.

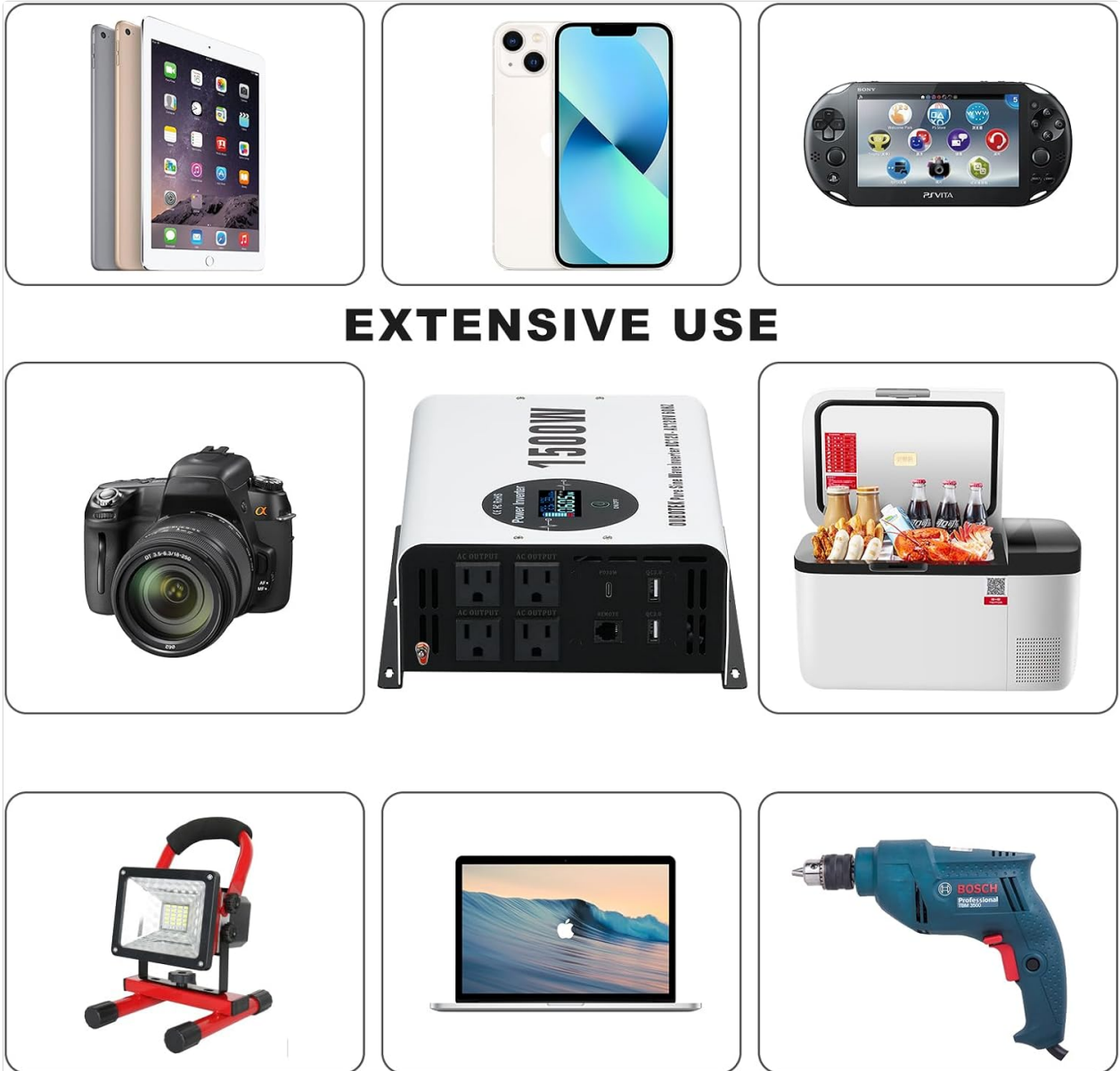


Image: A collage of images demonstrating the extensive use of the OUBOTEK 1500W inverter, including charging tablets, phones, laptops, and powering various tools and small appliances.

9. MAINTENANCE

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

- Keep the inverter clean and free from dust and debris. Use a dry cloth for cleaning.
- Ensure all connections (battery cables, grounding wire) are secure and free from corrosion.
- Check the cooling fans periodically for any obstructions.
- Store the inverter in a cool, dry place when not in use for extended periods.

10. TROUBLESHOOTING

If you encounter issues with your inverter, refer to the following common troubleshooting tips:

Problem	Possible Cause	Solution
No power output	Loose battery connections, low battery voltage, blown fuse.	Check and tighten all connections. Recharge or replace battery. Check and replace blown fuses (use spare 40A fuses).
Overload warning (OL)	Connected appliance exceeds inverter's continuous power rating.	Reduce the load by disconnecting some appliances. Ensure total wattage does not exceed 1500W.
Over temperature warning (OT)	Poor ventilation, high ambient temperature, blocked fan.	Ensure adequate airflow around the inverter. Clear any obstructions from fans. Allow inverter to cool down.
Low voltage warning (LV)	Battery voltage is too low.	Recharge or replace the battery.
Short circuit warning (SC)	Short circuit in connected appliance or wiring.	Disconnect all loads and inspect wiring for shorts.

11. SPECIFICATIONS

- **Continuous Power:** 1500 Watts
- **Peak Power:** 3000 Watts
- **Input Voltage:** 12V DC
- **Output Voltage:** 120V AC
- **Output Frequency:** 60Hz
- **Output Waveform:** Pure Sine Wave
- **AC Outlets:** 4
- **USB Ports:** 2 (18W each)
- **Type-C Port:** 1 (30W)
- **Product Dimensions:** 12.4 x 8.27 x 3.54 inches
- **Item Weight:** 9.77 pounds
- **Model Number:** TP1500W

Product Size



Image: The OUBOTEK 1500W Pure Sine Wave Power Inverter with its key dimensions labeled in inches and millimeters.

12. WARRANTY & SUPPORT

OUBOTEK is committed to customer satisfaction. For any inquiries or assistance, please contact our customer service team. We are glad to provide 24-hour customer service support to ensure your journey is powered with confidence.

Please refer to your purchase documentation for specific warranty details.