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› OLTEANP 1500W Pure Sine Wave Inverter User Manual (Model: TK-1500W)

OLTEANP TK-1500W

OLTEANP 1500W Pure Sine Wave Inverter User Manual

Model: TK-1500W

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your OLTEANP 1500W Pure Sine Wave Inverter. This device converts 12V DC battery power to 110V AC household power, suitable for various applications including vehicles, RVs, boats, and during power outages. Please read this manual thoroughly before installation and use.



Figure 1: OLTEANP 1500W Pure Sine Wave Inverter with included accessories.

2. SAFETY INSTRUCTIONS

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

- **Proper Ventilation:** Ensure the inverter is installed in a well-ventilated area to prevent overheating.
- **Correct Voltage:** Connect the inverter only to a 12V DC power source. Connecting to other voltages may cause damage.
- **Polarity:** Always connect the positive (+) terminal of the inverter to the positive (+) terminal of the battery, and the negative (-) terminal to the negative (-) terminal. Incorrect polarity will damage the inverter.

- **Spark-Free Protection:** The inverter is equipped with a professional spark-free protection circuit that automatically halts output if power is not properly connected or a short circuit occurs. However, always exercise caution during connections.
- **Grounding:** Properly ground the inverter to prevent electrical shock.
- **Avoid Moisture:** Do not expose the inverter to rain, water, or excessive humidity.
- **Load Capacity:** Do not exceed the inverter's continuous power rating of 1500W.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- OLTEANP 1500W Pure Sine Wave Inverter
- Battery Cables (Red and Black)
- Remote Controller with LCD Screen
- User Manual (this document)

4. PRODUCT FEATURES & COMPONENTS

Familiarize yourself with the various parts and features of your inverter.

4.1. Inverter Front Panel (AC Side)

AC SIDE & DC SIDE PART

Continuous Power: 1500W Peak Power: 3000W

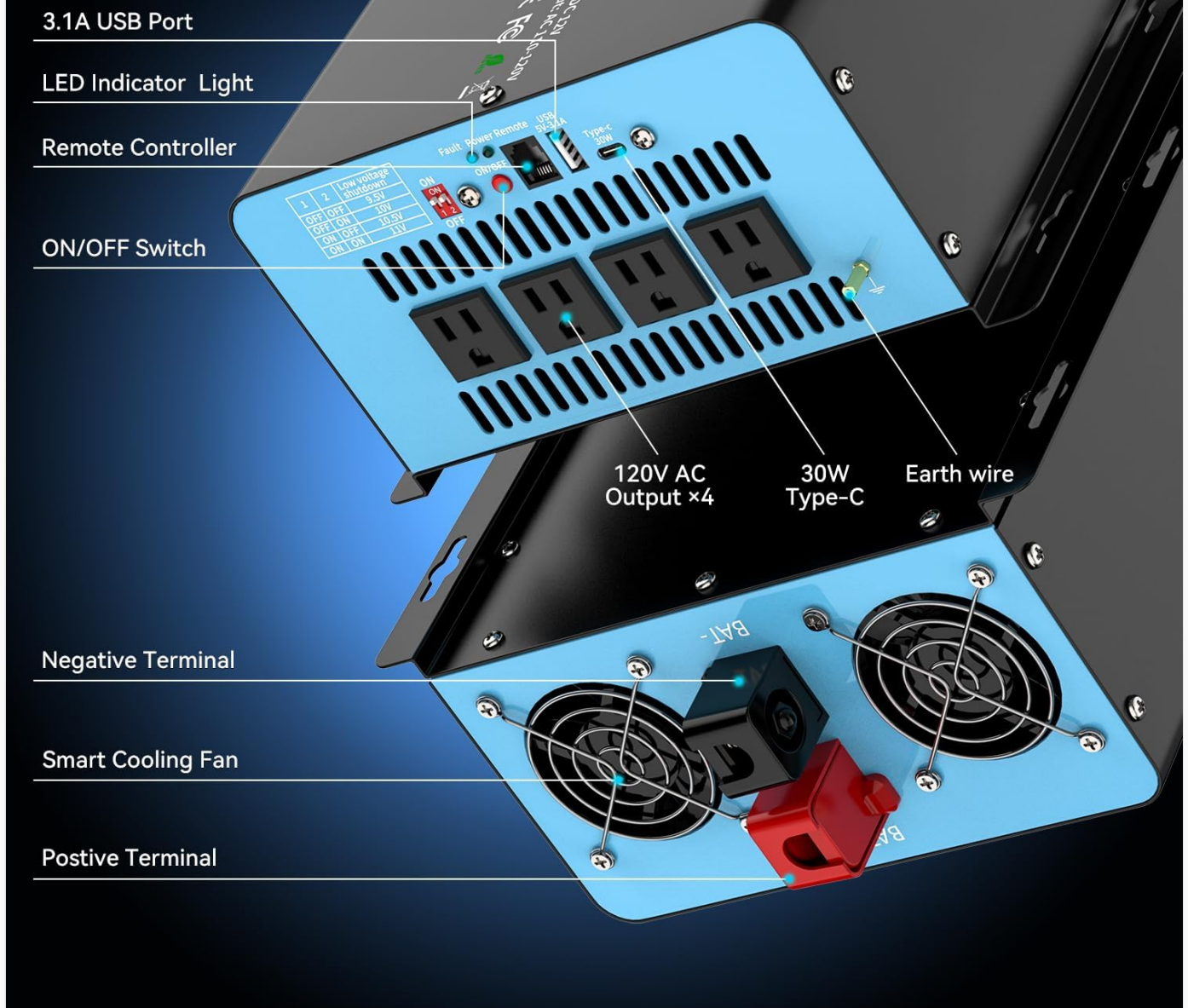


Figure 2: Front Panel (AC Output Side) Components.

- **4 x 110V AC Outlets:** For connecting standard household appliances.
- **5V/3.1A USB Port:** For charging USB-powered devices.
- **30W Type-C Port:** For charging Type-C compatible devices.
- **LED Indicator Lights:** Indicate power status and protection warnings.
- **ON/OFF Switch:** Main power switch for the inverter.
- **Remote Control Port:** Connects the wired remote control.
- **Earth Wire Terminal:** For grounding the inverter.

4.2. Inverter Rear Panel (DC Input Side)

- **Positive (+) Terminal (Red):** Connects to the positive terminal of the 12V battery.
- **Negative (-) Terminal (Black):** Connects to the negative terminal of the 12V battery.
- **Smart Cooling Fans:** Automatically activate to dissipate heat and maintain optimal operating temperature.

- **Adjustable Input Voltage Switches:** DIP switches for setting low voltage shutdown thresholds.

4.3. Remote Control with LCD Display



Figure 3: Remote Control LCD Display Indicators.

The remote control provides real-time monitoring and control of the inverter. The LCD displays input voltage, output voltage, battery level, and power consumption. Flashing symbols indicate potential issues, aiding in troubleshooting.

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Video 1: Overview of the OLTEANP Pure Sine Wave Inverter with Remote Controller, demonstrating its features and functionality.

5. SETUP & INSTALLATION

Follow these steps for proper installation and connection of your inverter.

5.1. Connecting Battery Cables (DC Input)

1. Ensure the inverter's ON/OFF switch is in the OFF position.
2. Connect the red battery cable to the positive (+) terminal of the inverter and the positive (+) terminal of your 12V battery.
3. Connect the black battery cable to the negative (-) terminal of the inverter and the negative (-) terminal of your 12V battery.
4. Ensure all connections are tight and secure to prevent arcing and ensure efficient power transfer.

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Video 2: Demonstration of connecting the OLTEANP Power Inverter 12V to 110V to a battery source.

5.2. Adjusting Input Voltage (for Battery Types)

The inverter features adjustable input voltage settings (9.5V-11V) for compatibility with various battery types, including lithium batteries. This helps reduce battery draw, protect battery health, and extend battery life.

SELECTABLE INPUT VOLTAGE

Tuned and optimized for 12V DC systems and compatible with various popular types of batteries, protect battery health and extend battery work life.



GEL



SLA



LI



FLD



AGM

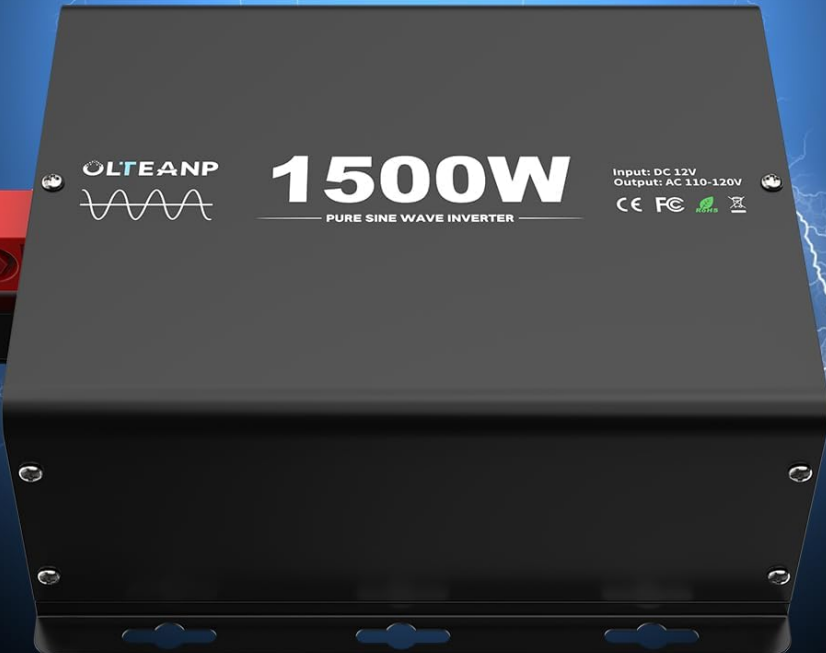


CLA



USER

1	2	Low Voltage Shutdown
OFF	OFF	9.5V
OFF	ON	10V
ON	OFF	10.5V
ON	ON	11V



OLTEANP
1500W
PURE SINE WAVE INVERTER

Input: DC 12V
Output: AC 110-120V
CE FC RoHS

NOTE: Please select the input voltage before turning on the inverter

Figure 4: Adjustable Input Voltage DIP Switches and Settings.

IMPORTANT: Adjust the input voltage switches ONLY when the inverter is turned OFF.

5.3. Grounding the Inverter

For safety, connect the inverter's earth wire terminal to a proper ground point. This helps protect against electrical hazards in case of a fault.

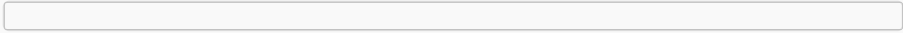


Figure 5: Inverter Ground Wire Connection.

5.4. Connecting the Remote Control

Plug the remote control cable into the designated remote control port on the inverter's front panel. This allows for convenient monitoring and control from a distance.



Figure 6: Connecting the 15ft Wired Remote Controller.

6. OPERATION

6.1. Powering On/Off

Use the ON/OFF switch on the inverter's front panel or the remote control to power the unit on or off. The LED indicators will confirm the power status.

6.2. Using AC Outlets, USB, and Type-C Ports

Once the inverter is powered on, you can connect your devices to the 4 AC outlets, 5V/3.1A USB port, or 30W Type-C port. Ensure the total power consumption of connected devices does not exceed 1500W continuous power.

1500W PURE SINE WAVE INVERTER

Cause Less Damage And Loss To Your Device

90%
Conversion
Power



4 AC
Outlets



5V/3.1A
USB Port



30W
Type-C Port



Figure 7: Inverter powering multiple devices with 90% conversion efficiency.

6.3. Understanding the Remote Control LCD Display

The remote control's LCD provides crucial information:

- **Battery Level:** Shows the remaining charge in your connected battery.
- **DC Input Voltage:** Displays the voltage from your battery.
- **AC Output Voltage:** Shows the stable 110V AC output.
- **Power Consumption (Watts):** Indicates the real-time power draw of connected devices.
- **Flashing Symbols:** Alert you to potential problems such as overload, overheat, high/low voltage, or short circuit. Refer to the troubleshooting section for details.

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Video 3: A brief demonstration of the OLTEANP 2024 New Upgraded Pure Sine Wave Inverter in operation.

7. MAINTENANCE

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

- **Keep Clean:** Periodically clean the inverter's exterior with a dry cloth. Ensure ventilation openings are free from dust and debris.
- **Check Connections:** Regularly inspect battery cable connections for tightness and corrosion. Loose connections can lead to power loss and overheating.
- **Storage:** When not in use for extended periods, store the inverter in a cool, dry place away from direct sunlight and moisture.

8. TROUBLESHOOTING

The remote control's LCD display uses flashing symbols to indicate operational issues. Refer to the table below for common problems and their solutions.

REMOTE CONTROLLER WITH LCD SCREEN

This remote controller panel will display trouble alarms and help you troubleshoot

The diagram illustrates the LCD screen's layout and its various indicators:

- Battery:** A vertical bar chart showing battery levels from 100% to 20%.
- High/Low:** Indicators for high and low battery levels.
- DC Input:** Displays 12.5V.
- AC Output:** Displays 120V.
- Power:** Displays 0000W.
- Frequency:** Displays 60Hz.
- Overload:** Indicated by a lightbulb icon and the word "OVERLOAD".
- Overheat:** Indicated by a thermometer icon and the words "OVER HEAT".

NOTE: The corresponding symbol on the screen flashes to remind you of the fault

The photograph shows the inverter unit, which is a black and blue device with multiple AC outlets and a control panel. Next to it is the remote control, which has a small LCD screen displaying the same information as the diagram above.

Figure 8: Remote Control LCD Display with Fault Indicators.

Flashing Symbol	Possible Cause	Solution
OVERLOAD	Connected load exceeds 1500W continuous or 3000W peak.	Reduce the connected load. Disconnect some appliances.
OVERHEAT	Inverter is too hot. Poor ventilation or excessive load.	Allow the inverter to cool down. Ensure adequate ventilation. Reduce load.
HIGH VOLTAGE	DC input voltage is too high.	Check battery voltage. Ensure it is within the 12V range.
LOW VOLTAGE	DC input voltage is too low. Battery needs charging.	Recharge the battery. Check battery connections.
SHORT CIRCUIT	Short circuit detected in the output.	Disconnect all loads and check for faulty wiring or appliances.

If the problem persists after attempting these solutions, please contact customer support.

9. SPECIFICATIONS

Feature	Description
Model Name	TK-1500W
Continuous Power	1500 Watts
Peak Power	3000 Watts
Input Voltage	12V DC (Adjustable 9.5V-11V)
Output Voltage	110V AC
Output Frequency	60Hz
Output Waveform	Pure Sine Wave
AC Outlets	4
USB Port	5V/3.1A
Type-C Port	30W
Item Weight	6.6 pounds
Package Dimensions	12.52 x 11.81 x 6.57 inches
Manufacturer	OLTEANP

10. WARRANTY & SUPPORT

For warranty information, technical support, or service inquiries, please refer to the manufacturer's official website or contact their customer service department. Keep your purchase receipt as proof of purchase.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question