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OUBOTEK TP2000W

OUBOTEK 2000W Pure Sine Wave Inverter User Manual

Model: TP2000W

1. Introduction

Thank you for purchasing the OUBOTEK 2000W Pure Sine Wave Inverter. This inverter is designed to provide reliable and stable AC power from a 12V DC source, making it ideal for various applications including RVs, trucks, boats, camping, and off-grid solar systems. Its compact design, advanced features, and comprehensive safety protections ensure optimal performance and device safety.
To ensure safe operation and to get the most out of your inverter, please read this user manual thoroughly before installation and use. This manual provides detailed information on technical parameters, safety guidelines, product features, installation procedures, operation instructions, troubleshooting, and maintenance.

2. Product Overview

The OUBOTEK 2000W Pure Sine Wave Inverter converts 12V DC battery power into 120V AC household power. It delivers a continuous output of 2000W and a peak surge power of 4000W, suitable for powering sensitive electronics and a wide range of appliances. Key features include a professional LCD display, a wired remote control, multiple AC outlets, a USB port, and comprehensive safety protections.

2.1. Main Features

- **Powerful 2000W Output:** Provides stable 2000W continuous power and 4000W peak power, converting 12V DC to 120V AC with high efficiency and pure sine wave output.
- **Professional LCD Display:** Clearly shows battery voltage, output voltage, frequency, output waveform, loading device power, and protection codes.
- **Wired Remote Control:** Includes a 3-meter cable for convenient remote operation, displaying battery power, input voltage, and operating status.
- **Comprehensive Safety Protection:** Features multi-protection against low voltage, overvoltage, overload, short circuit, overcurrent, and overheating.
- **Versatile Connectivity:** Equipped with 4 AC outlets (15A each), 1 AC terminal block (25A), and 1 USB port for various devices.
- **Smart Cooling System:** Integrated cooling fans activate automatically when internal temperature reaches 45°C or load power is approximately 50%, ensuring optimal operating temperature.

2.2. Component Identification

Familiarize yourself with the different parts of your inverter:

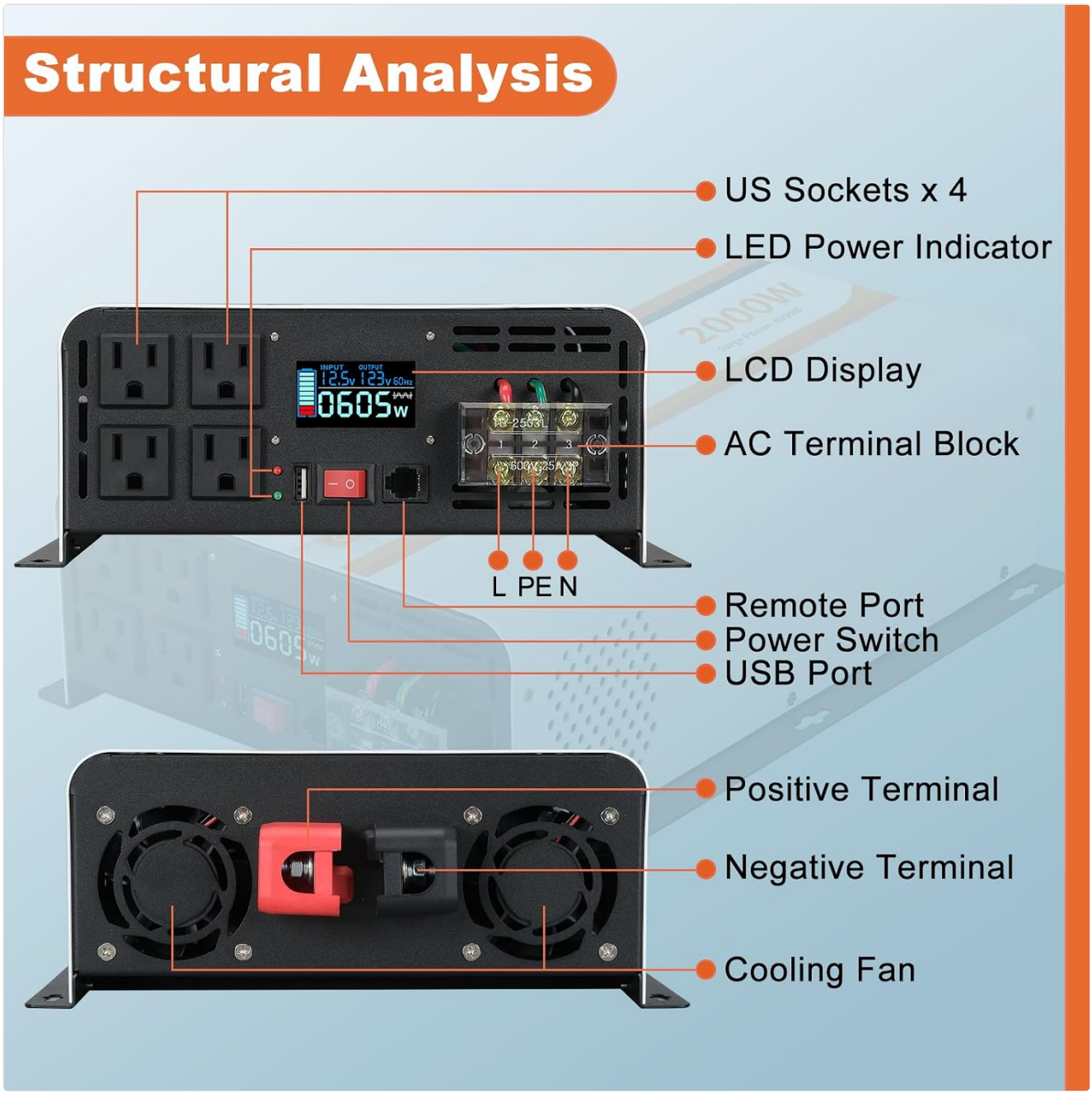


Image 1: Inverter Front and Rear Panel Layout. This image displays the front and rear panels of the OUBOTEK 2000W Pure Sine Wave Inverter, highlighting key components such as the US Sockets, LED Power Indicator, LCD Display, AC Terminal Block, Remote Port, Power Switch, USB Port, Positive Terminal, Negative Terminal, and Cooling Fans.

- **Front Panel:**
  - **US Sockets (x4):** Standard AC outlets for connecting appliances.
  - **LED Power Indicator:** Shows the operational status of the inverter.
  - **LCD Display:** Provides real-time operational data.
  - **AC Terminal Block (L, P, E, N):** For hardwiring AC loads requiring higher current.
  - **Remote Port:** Connection point for the wired remote control.
  - **Power Switch:** Main ON/OFF switch for the inverter.
  - **USB Port:** 5V DC output for charging USB-powered devices.
- **Rear Panel:**

- **Positive Terminal (+):** Red terminal for connecting the positive battery cable.
- **Negative Terminal (-):** Black terminal for connecting the negative battery cable.
- **Cooling Fans:** Automatically activate to dissipate heat and maintain optimal operating temperature.

3. Safety Instructions

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

- **General Safety:**
  - Keep the inverter away from water, rain, and moisture.
  - Do not operate the inverter if it has been dropped or damaged.
  - Do not open the inverter casing. There are no user-serviceable parts inside. Refer servicing to qualified personnel.
  - Ensure proper ventilation around the inverter. Do not block ventilation openings.
  - Keep children away from the inverter.
- **Electrical Safety:**
  - Always connect the inverter to a 12V DC battery system. Do not connect to 24V or 48V systems.
  - Ensure correct polarity when connecting battery cables (Red to Positive, Black to Negative). Reverse polarity will damage the inverter and void the warranty.
  - Use appropriate gauge battery cables (4 AWG or thicker for 2000W) and ensure connections are tight to prevent overheating.
  - Always connect the inverter's ground terminal to a proper earth ground.
  - Disconnect the battery before performing any maintenance or wiring.
  - Avoid connecting loads that exceed the inverter's continuous power rating.
- **Environment:**
  - Install the inverter in a cool, dry, and well-ventilated area.
  - Do not install the inverter in areas where flammable materials or gases are present.
  - Avoid direct sunlight and heat sources.

4. Package Contents

Please check the package contents upon arrival to ensure all items are present and undamaged:

- 1 x OUBOTEK 2000W Pure Sine Wave Inverter
- 1 x Wired Remote Control with 3-meter Cable
- 1 x 0.5m 4 AWG Battery Cable (Red)
- 1 x 0.5m 4 AWG Battery Cable (Black)
- 6 x Spare 50A Fuses
- 1 x Wrench
- 1 x Convenient Adhesive for Remote Control Mounting

- 1 x User Manual
- 1 x Ground Wire

5. Setup and Installation

Proper installation is crucial for the safe and efficient operation of your inverter. Follow these steps carefully:

5.1. Choosing an Installation Location

- Select a location that is dry, cool, and well-ventilated.
- Ensure there is at least 6 inches (15 cm) of clear space around the inverter for proper airflow.
- Mount the inverter on a flat, stable surface.
- Avoid areas with direct sunlight, heat sources, or flammable materials.

5.2. Battery Connection

WARNING: Ensure the inverter's power switch is OFF before making any battery connections.

1. **Prepare Cables:** Use the provided 4 AWG battery cables. For longer runs or higher loads, consider upgrading to thicker cables (e.g., 2 AWG or 1/0 AWG pure copper) to minimize voltage drop and heat generation.
2. **Connect to Inverter:** Connect the red battery cable to the positive (+) terminal on the inverter and the black battery cable to the negative (-) terminal on the inverter. Tighten the nuts securely with the provided wrench.
3. **Connect to Battery:** Connect the other end of the red battery cable to the positive (+) terminal of your 12V battery. Connect the other end of the black battery cable to the negative (-) terminal of your 12V battery. Ensure all connections are tight and secure.
4. **Verify Polarity:** Double-check that the red cable is connected to positive terminals on both the inverter and battery, and the black cable to negative terminals.

5.3. Grounding the Inverter

For safety, the inverter must be properly grounded.

1. Locate the grounding screw on the inverter chassis.
2. Connect one end of the provided ground wire to the grounding screw and secure it.
3. Connect the other end of the ground wire to a reliable earth ground (e.g., vehicle chassis, ground rod, or proper electrical ground system).

5.4. Connecting the Remote Control

1. Locate the remote port on the front panel of the inverter.
2. Plug the remote control cable into the remote port.
3. Mount the remote control in a convenient location using the provided adhesive.

6. Operating Instructions

6.1. Powering On the Inverter

1. Ensure all battery connections are secure and correct.
2. Ensure no appliances are plugged into the inverter yet.
3. Press the main power switch on the inverter to the

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