

LEESKY 3000 Watt Inverter

LEESKY 3000 Watt Power Inverter Instruction Manual

Model: 3000 Watt Inverter

1. INTRODUCTION

The LEESKY 3000 Watt Power Inverter is designed to convert 12V DC power from your vehicle battery or battery bank into 110V/120V AC household power. This device provides 3000 watts of continuous power, making it suitable for powering various AC household appliances and large electrical devices during trips, camping, work sites, or as a home backup solution. It features an LED display, a 2.4A USB port, dual AC sockets, and comes with a wired remote controller for convenient operation.



Image 1.1: LEESKY 3000 Watt Power Inverter and included accessories.

2. SAFETY INSTRUCTIONS

For safe operation and to prevent damage to the inverter and connected devices, please adhere to the following safety guidelines:

- **Built-in Fuses:** The inverter includes built-in UL fuses to protect your devices from electrical damage.
- **Multiple Protections:** The unit is equipped with 7 protection features: Overload protection, Overvoltage protection, Low-voltage protection, Overheat protection, Low-voltage alarm, Input/output isolated protection, and Reverse polarity protection.
- **LED Display for Protection Codes:** The LED display will show specific protection codes (HI - overvoltage, OH - overheat, OL - overload, LO - low voltage) accompanied by an audible beep when a protection is triggered.
- **Ventilation:** Ensure adequate ventilation around the inverter. The intelligent cooling fans will activate automatically when the load reaches approximately 40% of rated power or the inverter temperature reaches 104°F (40°C) to prevent overheating.
- **Grounding:** Always connect the inverter to a proper ground using the provided earth wire.
- **Cable Sizing:** Use the provided 4AWG battery cables to ensure sufficient current flow and prevent overheating of cables.



Image 2.1: Overview of the inverter's protection functions.

3. PACKAGE CONTENTS

Upon unpacking, please verify that all the following items are included:

- LEESKY 3000 Watt Power Inverter Unit
- 15ft Wired Remote Controller
- 2 pairs of 2ft 4AWG Battery Cables (Red and Black)
- Earth Wire
- 8 Shockproof Pads
- User Manual (this document)



Image 3.1: Inverter and its complete set of accessories.

4. PRODUCT FEATURES

The LEESKY 3000 Watt Power Inverter offers a robust set of features for reliable power conversion:

- **High Power Output:** Provides 3000 watts of continuous power, converting 12V DC to 110V/120V AC.
- **Versatile Outlets:** Equipped with dual 110-120V AC sockets and a 2.4A USB port for charging various devices.

- **Remote Control:** Includes a 15ft wired remote controller for convenient power on/off control and monitoring of the inverter's status from a distance.
- **AC Terminal Blocks:** Designed with 30A AC Terminal Blocks to easily connect appliances larger than 15A.
- **Intelligent LED Display:** Clearly shows input voltage, output wattage, and corresponding protection codes (HI, OH, OL, LO) for quick diagnostics.
- **Advanced Cooling System:** Features intelligent cooling fans that automatically activate when the load reaches approximately 40% of rated power or the inverter temperature reaches 104°F (40°C), ensuring superior heat dissipation and prolonged lifespan.
- **Durable Construction:** Made with quality aluminum alloy material for superior endurance, heat dissipation, and drop resistance compared to plastic-cased inverters.



Image 4.1: Front and rear panel overview with port labels and display functions.

5. SETUP

Follow these steps to properly set up your LEESKY 3000 Watt Power Inverter:

1. **Placement:** Choose a dry, well-ventilated location for the inverter, away from direct sunlight, heat sources, and flammable materials. Ensure sufficient space around the unit for proper airflow.
2. **Grounding:** Connect the provided earth wire to the grounding terminal on the inverter and to a

reliable ground point (e.g., vehicle chassis, ground rod).

3. **Battery Connection:** Using the provided 4AWG battery cables, connect the positive (+) terminal of the inverter (red terminal) to the positive (+) terminal of your 12V DC battery. Connect the negative (-) terminal of the inverter (black terminal) to the negative (-) terminal of your 12V DC battery. Ensure connections are tight and secure.
4. **Remote Control Connection:** Plug the 15ft wired remote controller into the designated remote port on the inverter. This allows for convenient operation from a distance.
5. **Initial Power On:** Once all connections are secure, press the power button on the inverter or the remote control to turn on the unit. The LED display should illuminate, showing the input voltage.

USEFUL FOR ANY SITUATION



Image 5.1: Examples of inverter setup in different environments.

6. OPERATING INSTRUCTIONS

To operate your LEESKY 3000 Watt Power Inverter:

1. **Power On:** Ensure the inverter is properly connected to a 12V DC power source. Press and hold the power button on the inverter or the remote control for over 0.5 seconds to turn it on. The green 'POWER' indicator on the remote will light up, and the LED display on the inverter will show the input voltage.
2. **Connect Appliances:** Plug your AC appliances into the dual 110-120V AC sockets. For devices requiring more than 15A, utilize the 30A AC Terminal Blocks. You can also charge USB-powered

devices via the 2.4A USB port.

3. **Monitor Display:** The LED display will cycle through input voltage, output wattage, and output power (kW). Monitor these readings to ensure stable operation.
4. **Overload/Protection:** If the inverter detects an issue (e.g., overload, overvoltage), it will trigger a protection mode, display a corresponding code (HI, OH, OL, LO), and emit an audible beep. Disconnect the load and resolve the issue before restarting.
5. **Power Off:** To turn off the inverter, press and hold the power button on the inverter or the remote control for over 0.5 seconds. The display and indicators will turn off.

REMOTE CONTROL

Long press the switch or the remote of inverter for over 0.5s and then stop, This opening method can avoid turning on the unit by mistakes due to the interference or any factors. 15 ft length 4P4C cable and RJ 10 plug.



Image 6.1: The 15ft wired remote control for convenient operation.

7. MAINTENANCE

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

- **Cleaning:** Regularly clean the exterior of the inverter with a dry, soft cloth. Ensure the cooling fan vents are free from dust and debris to maintain efficient airflow.
- **Connections:** Periodically check all electrical connections (battery terminals, grounding wire, AC terminal blocks) to ensure they are tight and free from corrosion. Loose connections can lead to overheating and reduced performance.
- **Storage:** When not in use for extended periods, store the inverter in a cool, dry place, away from direct sunlight and extreme temperatures.

- **Battery Health:** Ensure your 12V DC battery is well-maintained and fully charged, especially if using it as a primary power source. A healthy battery contributes to the inverter's efficiency and lifespan.

PROLONG INVERTER LIFESPAN

The cooling fan won't work while turning on the inverter, till the temperature of inverter case reach 104°F or power >40% rated power.



Dual Cooling Fans



Image 7.1: Dual cooling fans for efficient heat dissipation.

8. TROUBLESHOOTING

The intelligent LED display provides diagnostic codes to help identify and resolve common issues:

| Display Code | Issue | Solution |
|--------------|--|--|
| HI | Overvoltage Protection | Input DC voltage is too high. Check battery voltage and charging system. |
| OH | Overheat Protection | Inverter temperature is too high. Ensure proper ventilation, reduce load, or allow to cool down. |
| OL | Overload Protection / Short-circuit Protection | Connected load exceeds inverter's capacity or there is a short circuit. Reduce load or check for short circuits. |

| Display Code | Issue | Solution |
|--------------|------------------------|---|
| LO | Low-voltage Protection | Input DC voltage is too low. Recharge or replace the battery. |

If the issue persists after attempting the suggested solutions, please contact LEESKY customer support for further assistance.

9. SPECIFICATIONS


Key technical specifications for the LEESKY 3000 Watt Power Inverter:

- **Model Name:** 3000 Watt Inverter
- **Wattage:** 3000 watts (Continuous)
- **Power Source:** Battery Powered (12V DC Input)
- **Output Voltage:** 110V / 120V AC
- **USB Output:** 5V DC, 2.4A
- **Product Dimensions:** 18.79 x 9.4 x 3.8 inches
- **Item Weight:** 11 pounds
- **Manufacturer:** LEESKY
- **Recommended Uses:** Car RV, Home, Indoor Outdoor, Solar System, Vehicle

10. WARRANTY AND SUPPORT

The LEESKY 3000 Watt Power Inverter comes with a reliable 18-month warranty and lifetime service. For any inquiries, technical support, or warranty claims, please contact LEESKY customer support or visit the official [LEESKY Store on Amazon](#).

Related Documents

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|  | <p>LEESKY Pure Sine Wave Power Inverter User Manual</p> <p>Comprehensive user manual for LEESKY Pure Sine Wave Power Inverters, models LS-1500SAR and LS-2000SAR. Provides detailed information on product specifications, safety precautions, installation procedures, usage guidelines, and troubleshooting tips.</p> |
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