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WZRELB SE100036

WZRELB 1000W Pure Sine Wave Inverter User Manual

MODEL: SE100036

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1. Introduction

This manual provides essential information for the safe and efficient operation of your WZRELB 1000W Pure Sine Wave Inverter. This device converts 36V DC power to 110V/120V AC power, making it suitable for various applications including home, RV, truck, and camping. Please read this manual thoroughly before use and retain it for future reference.

2. Safety Information

- **High Temperature Warning:** Do not touch the inverter housing while operating, as it can reach high temperatures.
- **Overload Prevention:** Avoid overloading the inverter. For inductive loads such as microwave ovens, water pumps, air conditioners, and other appliances with motors or compressors, the instantaneous starting power can be 3-10 times their continuous operating power. It is recommended to select an inverter with a continuous power rating 3-7 times higher than the appliance's working power. For refrigerators, an inverter with 10 times higher power is required.
- **Water and Moisture:** Do not expose the inverter to water or moisture.
- **Ventilation:** Ensure adequate ventilation around the inverter to prevent overheating.
- **Grid Power:** This inverter is designed for off-grid use. Do not connect it to grid power.

3. Package Contents

Upon opening the package, verify that all items are present and undamaged:

- WZRELB 1000W Pure Sine Wave Inverter
- Battery Connection Cables (Red and Black, 50cm)
- Spare Fuses
- User Manual



Figure 3.1: Unboxing the WZRELB 1000W Pure Sine Wave Inverter, revealing the unit, battery cables, and user manual.

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Video 3.1: This video demonstrates the unboxing process of the 1000W pure sine wave inverter, showing the contents and initial inspection.

4. Product Overview

The WZRELB 1000W Pure Sine Wave Inverter is designed for reliable power conversion. Key features include:

- **Pure Sine Wave Output:** Provides 1000 watts of continuous true pure sine wave power (36V DC to 120V AC, 60Hz, single phase). Ideal for sensitive electronics like TVs, laptops, phones, and CPAP machines.
- **DC LED Display:** Real-time monitoring of DC input voltage for clear power usage status.
- **Soft Starter Design:** Smooth AC voltage rise reduces instantaneous surge current, extending the lifespan of connected electrical appliances.
- **Powerful Output:** Equipped with two 120VAC pure sine wave outlets, suitable for both indoor and outdoor use.
- **Efficient Cooling System:** Features an all-aluminum housing for comprehensive heat dissipation and an integrated cooling fan to maintain optimal operating temperature.



Figure 4.1: Front panel of the inverter with DC LED display, AC outlets, and power switch.

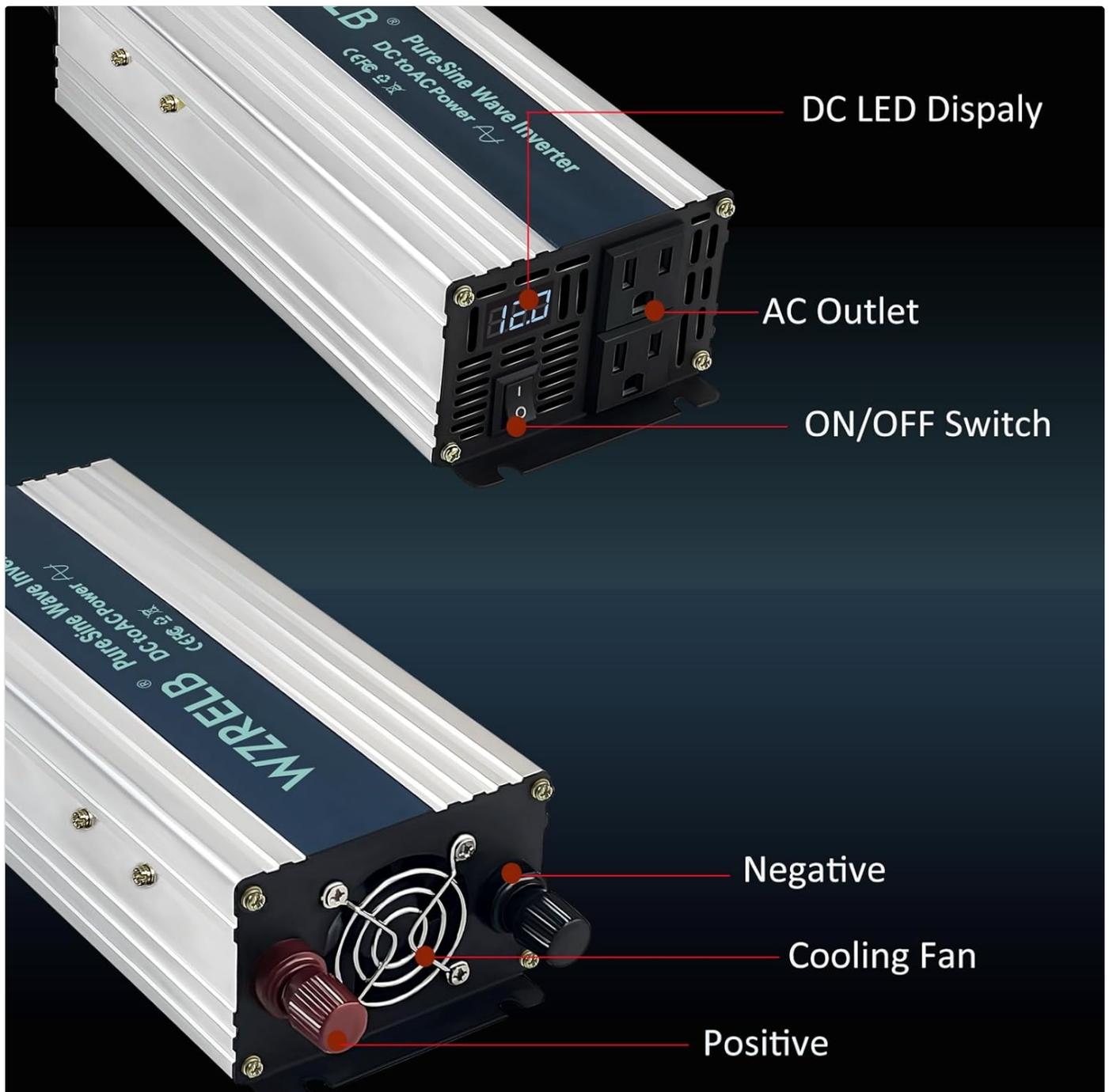


Figure 4.2: Rear panel of the inverter with DC input terminals and cooling fan.

Universal Compatibility

Suitable for devices up to 1000W



Smartphone



Wireless Earbuds



Pad



Laptop



Camera



CPAP machine'



Razor



Breast Pump



Figure 4.3: Comprehensive protection features of the inverter.

5. Setup

Follow these steps to set up your WZRELB 1000W Pure Sine Wave Inverter:

1. **Placement:** Choose a dry, well-ventilated area for the inverter, away from direct sunlight, heat sources, and flammable materials. Ensure sufficient space around the unit for proper airflow.
2. **Battery Connection:** Connect the provided battery cables to the inverter's DC input terminals. Ensure the red cable connects to the positive (+) terminal and the black cable connects to the negative (-) terminal. Then, connect the other ends of the cables to your 36V DC battery bank, observing correct polarity. A secure connection is crucial to prevent arcing and ensure efficient power transfer.
3. **Initial Power On:** After connecting the battery, switch the inverter's ON/OFF button to the 'ON' position. The DC

LED display should illuminate, showing the battery voltage.

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Video 5.1: This video demonstrates the physical connections of a similar WZRELB inverter, including battery terminals and AC output, and shows it powering an air conditioner and electric drill.

6. Operating Instructions

Once the inverter is properly set up and powered on, you can begin connecting your AC appliances:

1. **Connect Appliances:** Plug your 110V/120V AC appliances into the inverter's AC outlets. Ensure the total continuous wattage of all connected appliances does not exceed 1000W.
2. **Monitor Performance:** Observe the DC LED display to monitor the input voltage from your battery. This helps ensure your battery is providing sufficient power and allows you to anticipate when recharging may be necessary.
3. **Soft Start Feature:** The inverter features a soft start design, which allows appliances to power up smoothly, reducing initial current surges and protecting both the inverter and the connected devices.



Figure 6.1: The compact design of the inverter makes it suitable for portable power needs.



Figure 6.2: The inverter is compatible with a wide range of sensitive electronic devices.

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Video 6.1: This video demonstrates the WZRELB Pure Sine Wave Inverter powering various kitchen appliances, showcasing its stable AC output.

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Video 6.2: This video shows the inverter successfully powering an air compressor, demonstrating its capability with motor-based loads.

7. Maintenance

To ensure the longevity and optimal performance of your inverter:

- **Cleaning:** Regularly clean the exterior of the inverter with a dry, soft cloth. Do not use liquid cleaners or solvents.
- **Ventilation:** Keep the cooling fan and ventilation openings free from dust and debris. Blocked vents can lead to

overheating.

- **Connections:** Periodically check all electrical connections (battery cables, AC plugs) to ensure they are tight and free from corrosion.
- **Storage:** When not in use for extended periods, store the inverter in a cool, dry place. Disconnect it from the battery.

8. Troubleshooting

If you encounter issues with your inverter, refer to the following common problems and solutions:

- **No Power Output:** Check battery connections, ensure the inverter is switched on, and verify the battery voltage on the LED display. If the battery voltage is too low or too high, the inverter may shut down for protection.
- **Overload Protection Triggered:** If the inverter beeps or shuts down, it may be due to an overload. Disconnect some appliances to reduce the load below 1000W continuous power. Remember to account for the high starting power of inductive loads (see Safety Information).
- **Over-Temperature Protection:** If the inverter feels excessively hot and shuts down, it may be due to overheating. Ensure proper ventilation and reduce the load. The all-aluminum housing and cooling fan are designed to manage heat, but extreme conditions or blocked vents can cause issues.
- **Short Circuit/Reverse Polarity Protection:** These safety features will immediately shut down the inverter if a short circuit or incorrect battery polarity is detected. Correct the wiring or fault before attempting to restart.

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Video 8.1: This video demonstrates the inverter's overload protection feature when attempting to power an induction cooker beyond its rated capacity, showing the alarm and shutdown.

9. Specifications

Feature	Specification
Model Name	SE100036
Continuous Wattage	1000 watts
Input DC Voltage	36V
Output AC Voltage	110V / 120V
Output Frequency	60Hz
Output Waveform	Pure Sine Wave
Product Dimensions	10.1 x 3.85 x 2.53 inches
Item Weight	2.6 pounds
Power Source	Battery Powered
Recommended Uses	Home, RV, Truck, Camping

10. Warranty and Support

For technical support, warranty inquiries, or any questions regarding your WZRELB Pure Sine Wave Inverter, please contact us using the information below:

- **Email:** info@powerreliable.com
- **Skype:** powerreliable
- **Tel:** +86-577-62078177
- **WhatsApp:** +86-135-1577-5816
- **Facebook:** www.facebook.com/wzrelb
- **Online Store:** www.reliableinverters.com

Please have your model number (SE100036) and purchase date ready when contacting support.