

WZRELB RBPRC-300036

WZRELB 3000W 36V Pure Sine Wave Power Inverter User Manual

Model: RBPRC-300036

INTRODUCTION

This manual provides essential instructions for the safe and efficient operation, installation, and maintenance of your WZRELB 3000W 36V Pure Sine Wave Power Inverter. Please read this manual thoroughly before using the device and retain it for future reference.

SAFETY PRECAUTIONS

Observe the following safety guidelines to prevent injury or damage to the inverter and connected equipment:

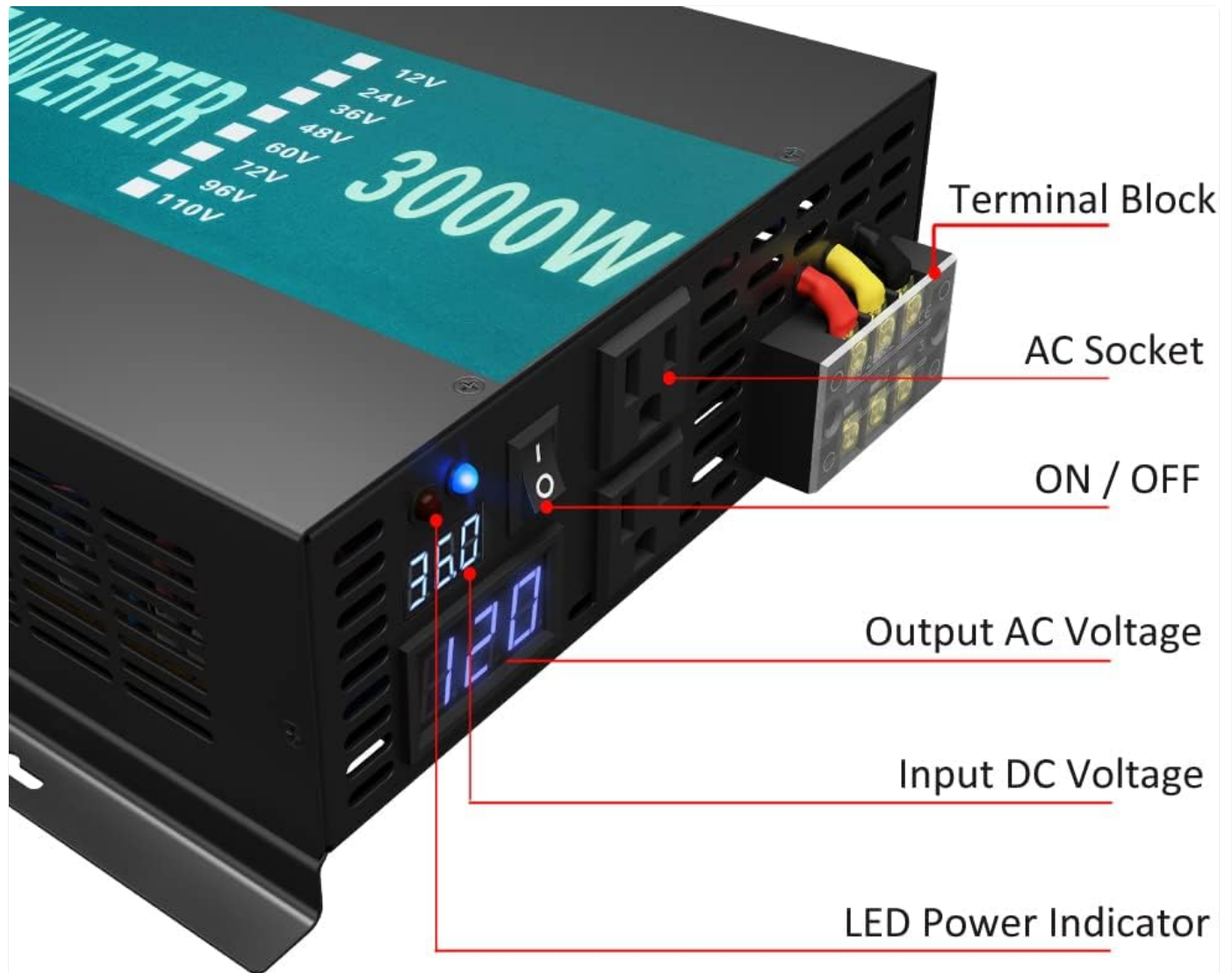
- Do not connect the inverter directly to grid power.
- Ensure correct polarity when connecting the DC input. Reverse connection of positive and negative terminals is forbidden.
- Avoid overloading the inverter. For inductive loads, select an inverter with a continuous power rating 3-7 times higher than the appliance's wattage. For refrigerators, a 10 times higher power inverter is recommended.
- Always turn off the load first, then turn off the inverter. When powering on, turn on the inverter first, then connect your loads. This ensures stable output during the initial seconds due to the soft start function.
- A flashing red light indicates that the input voltage is high. Refer to the troubleshooting section.
- Use only the provided standard battery cables to ensure full output capacity.
- The inverter contains built-in fuses for safety. Spare fuses are included in the package.
- Ensure adequate ventilation around the inverter. The cooling fan operates when the internal temperature exceeds 50 degrees Celsius (122 degrees Fahrenheit).

PRODUCT OVERVIEW

The WZRELB 3000W 36V Pure Sine Wave Power Inverter converts 36V DC power to 120V AC power, providing 3000 Watts continuous power and 6000 Watts peak power. It features LED displays for DC and AC voltages, dual US outlets,

and a remote control for convenient operation.

Front Panel Features



Product Details

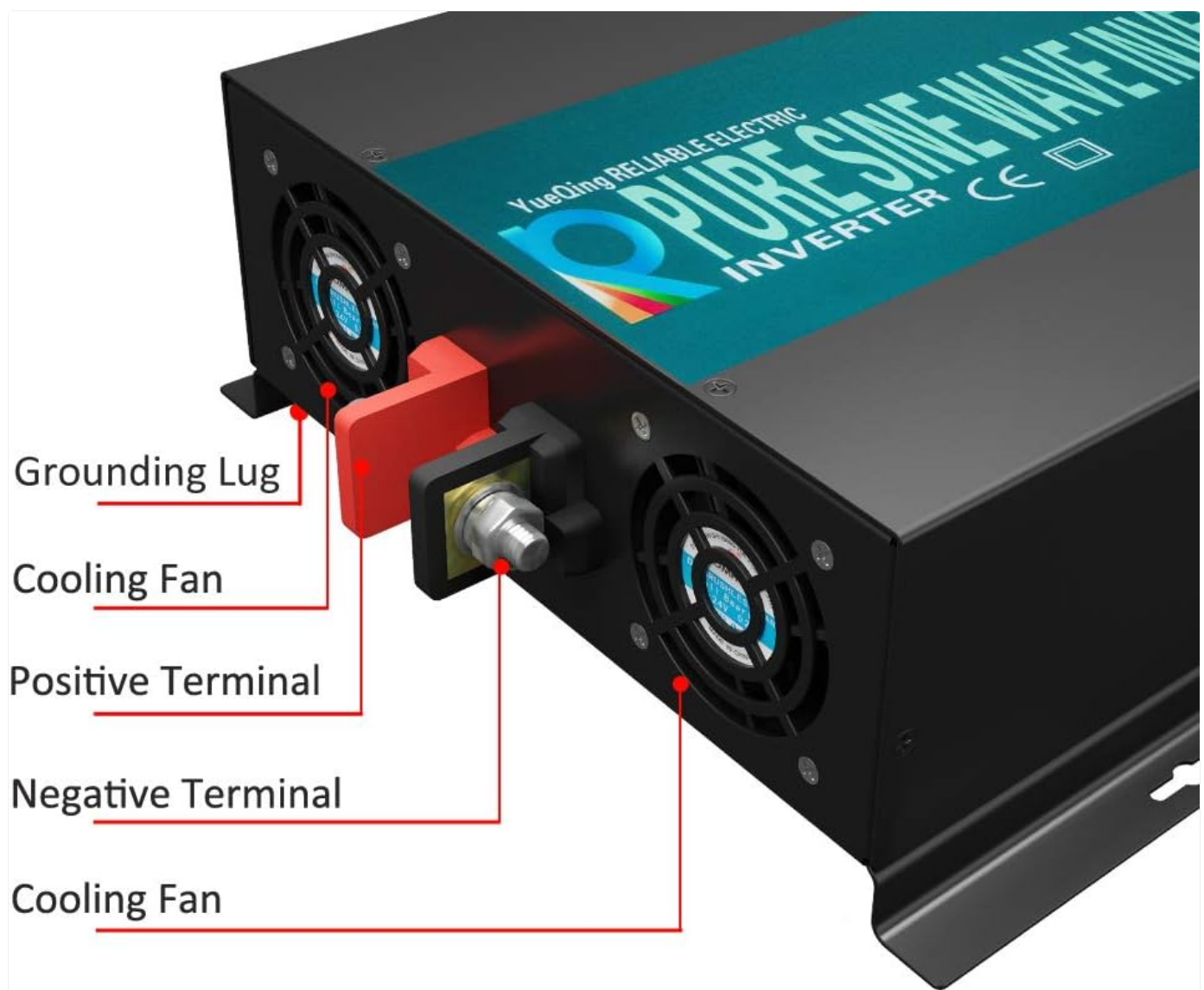
Each Single Part Matters Each Single Part Vaules

Image: Front panel of the inverter, highlighting the LED displays for input DC voltage and output AC voltage, the ON/OFF switch, and the dual AC outlets.

The front panel includes:

- **LED Power Indicator:** Shows the operational status.
- **Input DC Voltage Display:** Shows the current DC input voltage.
- **Output AC Voltage Display:** Shows the current AC output voltage.
- **ON/OFF Switch:** Controls the main power to the inverter.
- **AC Sockets:** Two standard US type outlets for connecting AC appliances.

Rear Panel Features



Product Details

Each Single Part Matters Each Single Part Vaules

Image: Rear panel of the inverter, illustrating the positive and negative DC input terminals, the grounding lug, and the cooling fans.

The rear panel includes:

- **Positive Terminal:** For connecting the positive DC cable from the battery bank.
- **Negative Terminal:** For connecting the negative DC cable from the battery bank.
- **Grounding Lug:** For connecting the inverter to an earth ground.
- **Cooling Fans:** Automatically activate to dissipate heat during operation.

Remote Control

Wireless Remote Switch

100ft in room with walls and doors
150ft in open area



Battery for the remote not included
Recommend 23A 12V Alkaline Battery



Image: The wireless remote control for the inverter, featuring an extendable antenna and control buttons. Note: Battery (23A 12V Alkaline) for the remote is not included.

The included wireless remote control allows for convenient power management from a distance. It typically operates up to 100ft indoors (with walls and doors) and 150ft in open areas. The remote requires a 23A 12V alkaline battery (not included).

SETUP AND INSTALLATION

Follow these steps for proper installation of your WZRELB power inverter:

1. **Mounting:** Choose a dry, well-ventilated location for the inverter. Ensure there is sufficient space around the unit for airflow, especially near the cooling fans.
2. **Grounding:** Connect the grounding lug on the rear panel of the inverter to a reliable earth ground using an appropriate gauge wire.
3. **DC Input Connection:**

- Ensure the inverter's ON/OFF switch is in the OFF position.
- Connect the positive (+) DC cable (red) from your 36V battery bank to the positive (+) terminal on the inverter.
- Connect the negative (-) DC cable (black) from your 36V battery bank to the negative (-) terminal on the inverter.
- Double-check all connections for tightness and correct polarity.

4. **Initial Power-Up:** After all connections are secure, switch the inverter's ON/OFF button to the ON position. The LED displays should illuminate, showing the DC input voltage and AC output voltage.

Installation Overview Video

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Video: An overview of the WZRELB 3000W Pure Sine Wave Inverter, demonstrating its features and potential installation context. This video is provided by the seller.

OPERATING INSTRUCTIONS

Once the inverter is properly installed and powered on, you can begin connecting your AC appliances.

1. **Connecting Appliances:** Plug your AC appliances into the dual US outlets on the front panel of the inverter.
2. **Monitoring Displays:** Observe the LED displays for real-time information on DC input voltage and AC output voltage. This helps ensure stable operation and allows you to monitor your battery's charge level.
3. **Using the Remote Control:** Use the wireless remote to turn the inverter ON or OFF from a convenient location. Ensure the remote has a charged 23A 12V alkaline battery installed.
4. **Load Management:** Be mindful of the total wattage of connected appliances. Do not exceed the inverter's continuous power rating of 3000W. Overloading can trigger safety protections and shut down the unit.
5. **Shutdown Procedure:** To turn off the system, first switch off all connected AC appliances, then turn off the inverter using its ON/OFF switch or the remote control.

MAINTENANCE

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

- **Cleaning:** Keep the inverter clean and free from dust and debris. Periodically wipe the exterior with a dry cloth. Ensure cooling vents are unobstructed.
- **Cooling Fans:** The internal cooling fans activate automatically when the temperature rises. Ensure they are not blocked and can operate freely.
- **Connections:** Periodically check all DC and AC connections to ensure they remain tight and free from corrosion. Loose connections can lead to power loss or overheating.
- **Fuses:** The inverter has built-in fuses. If the unit fails to power on or provide output, and other troubleshooting steps fail, consult a qualified technician for fuse inspection and replacement. Use only fuses of the specified type and rating. Spare fuses are provided.

TROUBLESHOOTING

This section addresses common issues you might encounter with your inverter.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Inverter does not power on.	Loose DC connections, low battery voltage, blown fuse, faulty ON/OFF switch.	Check DC cable connections. Verify battery voltage is within 30V-45V range. Check and replace fuses if necessary (consult technician). Ensure ON/OFF switch is fully engaged.
No AC output.	Overload, short circuit, high/low input voltage, inverter fault.	Reduce connected load. Check appliances for short circuits. Verify input DC voltage. Cycle inverter power (OFF then ON).
Red light flashing.	Input voltage is high (over 44-45V).	Check battery charging system to ensure voltage is within the specified range (30V-45V). Disconnect charging source if overcharging.
Inverter shuts down automatically.	Overload, low voltage (30V-32V), over voltage (44-45V), overheating (over 50°C).	Reduce load. Recharge battery. Check charging system. Ensure proper ventilation; allow inverter to cool. Manually recover from overload by cycling power.
Cooling fan not running.	Normal operation if temperature is below 50°C.	No action needed unless inverter is hot and fan is still not running. Ensure vents are clear.

SPECIFICATIONS

Feature	Detail
Brand	WZRELB
Model Name	RBPRC-300036
Wattage (Continuous)	3000 watts
Peak Output Power	6000 watts
Input Voltage	36 volts DC (Range: 30V-45V)
Output Voltage	120 volts AC
Frequency	60 Hz
Electrical Output Waveform	Pure Sine Wave
Number of AC Outlets	2 (US type)
Display Type	LED
Low Voltage Alarm	31V-33V
Low Voltage Shut Down	30V-32V
Over Voltage Shut Down	44V-45V
Cooling	Intelligent cooling fan (activates over 50°C)
Item Dimensions (L x W x H)	16.2" x 9.7" x 3.7"
Item Weight	11.5 pounds

Feature	Detail
Included Components	Inverter, cables

WARRANTY INFORMATION

The WZRELB 3000W 36V Pure Sine Wave Power Inverter comes with a **12-month warranty** from the date of purchase. This warranty covers manufacturing defects and ensures the product is free from defects in material and workmanship under normal use. Please retain your proof of purchase for warranty claims.

SUPPORT

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact WZRELB customer service. Refer to the product packaging or the official WZRELB website for the most current contact information.

ASK A QUESTION ABOUT THIS MANUAL

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