

Luminous Rhino Charge + 1465

LUMINOUS Rhino Charge + 1465 Square Wave Inverter User Manual

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your LUMINOUS Rhino Charge + 1465 Square Wave Inverter. Please read these instructions carefully before installation and use, and retain this manual for future reference. Proper installation and maintenance will ensure optimal performance and longevity of your inverter.

2. SAFETY INSTRUCTIONS

Adhering to these safety guidelines is crucial to prevent personal injury and damage to the inverter or connected equipment.

- **Electrical Hazard:** Installation and servicing must be performed by qualified personnel only.
- **Ventilation:** Ensure adequate ventilation around the inverter to prevent overheating. Do not block ventilation openings.
- **Environment:** Install the inverter in a dry, cool, and dust-free environment. Avoid direct sunlight, moisture, and corrosive substances.
- **Battery Safety:** Batteries produce explosive gases. Ensure the installation area is well-ventilated and keep away from open flames or sparks.
- **Grounding:** The inverter must be properly grounded to prevent electric shock.
- **Load Capacity:** Do not overload the inverter beyond its specified capacity.
- **Children and Pets:** Keep the inverter and its connections out of reach of children and pets.
- **Emergency Shutdown:** Familiarize yourself with the procedure to safely shut down the inverter in an emergency.

3. PACKAGE CONTENTS

Upon unpacking, please verify that all components are present and undamaged:

- LUMINOUS Rhino Charge + 1465 Square Wave Inverter Unit

- User Manual (this document)

4. PRODUCT OVERVIEW

The LUMINOUS Rhino Charge + 1465 is a square wave inverter designed to provide reliable power backup for home use. Its robust construction ensures durability and performance even in varying climatic conditions.



Figure 1: Front panel of the LUMINOUS Rhino Charge + 1465 Inverter. This image displays the inverter's blue casing, front ventilation grilles, and the control panel with indicator lights and the 'Rhino Charge' branding.

The front panel typically includes indicator lights for various statuses such as Mains On, Battery Charging, Inverter On, Overload, and Battery Low. Specific details on these indicators are provided in the Operating Instructions section.

5. SETUP

Follow these steps for proper installation of your inverter:

1. **Placement:** Choose a well-ventilated, dry, and cool location. Ensure the inverter is placed on a flat, stable surface, away from direct sunlight, heat sources, and flammable materials. Maintain at least 15 cm clearance around all sides for proper airflow.
2. **Battery Connection:** Connect the inverter to a compatible battery (or battery bank) using the provided cables. Ensure correct polarity: connect the red cable to the positive (+) terminal of the battery and the black cable to the negative (-) terminal. Secure all connections tightly to prevent loose contacts and sparking.
3. **Mains Input Connection:** Plug the inverter's mains input cord into a properly grounded wall socket. Ensure the mains supply voltage is within the inverter's specified operating range.
4. **Load Connection:** Connect your appliances (loads) to the output sockets of the inverter. Do not exceed the inverter's maximum rated output power. Start with essential appliances and add others as needed, ensuring the total load remains within limits.
5. **Initial Power On:** Once all connections are secure, switch on the inverter using the main power switch. Observe the indicator lights for normal operation.

6. OPERATING INSTRUCTIONS

Understanding the inverter's operation and indicators is key to its effective use.

6.1 Power On/Off

- To turn on the inverter, press the Power button. The 'Inverter On' indicator will illuminate.
- To turn off the inverter, press and hold the Power button until the 'Inverter On' indicator turns off.

6.2 Indicator Lights

- **Mains On (Green):** Indicates that the inverter is receiving power from the utility grid.
- **Battery Charging (Green/Amber):** Indicates that the battery is currently being charged. The color or blinking pattern

may vary based on charging stage.

- **Inverter On (Green):** Indicates that the inverter is supplying power to the connected loads from the battery.
- **Overload (Red):** Illuminates when the connected load exceeds the inverter's capacity. The inverter may shut down to protect itself. Reduce the load and restart.
- **Battery Low (Red):** Indicates that the battery charge level is critically low. The inverter will soon shut down to protect the battery from deep discharge.

6.3 Automatic Mode

The inverter automatically switches between mains mode (charging battery and supplying power from grid) and inverter mode (supplying power from battery) during power outages.

7. MAINTENANCE

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

- **Cleaning:** Keep the inverter clean and free from dust. Use a dry, soft cloth to wipe the exterior. Do not use liquid cleaners. Ensure ventilation openings are clear.
- **Connections:** Periodically check all electrical connections (battery terminals, mains input, load output) for tightness. Loose connections can cause sparking and overheating.
- **Battery Care:** If using a lead-acid battery, check the electrolyte level regularly (every 1-3 months) and top up with distilled water if necessary. Keep battery terminals clean and free from corrosion.
- **Ventilation:** Ensure the area around the inverter remains well-ventilated.
- **Professional Inspection:** Consider having the inverter inspected by a qualified technician annually.

8. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Inverter not turning on	No mains power; Battery discharged; Loose battery connections; Inverter switch off.	Check mains supply; Charge battery; Secure battery connections; Turn on inverter switch.
Overload indicator on	Too many appliances connected.	Reduce the number of connected appliances; Restart the inverter.
Battery Low indicator on	Battery is discharged.	Allow the battery to charge from the mains supply. If mains are off, reduce load to conserve power.
No output from inverter	Inverter off; Overload; Battery low; Faulty appliance.	Turn on inverter; Check for overload; Check battery level; Test appliance with another power source.
Inverter making unusual noise	Loose components; Internal fault.	Turn off the inverter immediately and contact customer support. Do not attempt to repair.

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

9. SPECIFICATIONS

Key technical specifications for the LUMINOUS Rhino Charge + 1465 Square Wave Inverter:

- **Model Name:** Rhino Charge + 1465
- **Inverter Type:** Square Wave
- **Power Source:** Battery Powered
- **Recommended Use:** Home
- **Dimensions (LxWxH):** 50 x 22 x 27 Centimeters
- **Included Components:** Inverter Unit
- **Manufacturer:** LUMINOUS
- **Color:** White

10. WARRANTY AND SUPPORT

Luminous products are designed for reliability and performance. For warranty information, terms, and conditions, please refer to the warranty card included with your product or visit the official Luminous website.

For technical assistance, troubleshooting beyond this manual, or to report a service issue, please contact Luminous customer support:

- **Customer Service Helpline:** 18001033039
- **Manufacturer Address:** Luminous Power TECHNOLOGIES Pvt. Ltd., VILLAGE DEV NAGAR PO GAGRET TEHAMB DISTT. UNA HIMACHAL PRADESH - 177201

Please have your model number (Rhino Charge + 1465) and purchase details ready when contacting support.

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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