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› [Luminous](#) /

› Luminous Cruze+ 2KVA Pure Sine Wave Inverter and RC 18000 150 Ah Tall Tubular Battery Combo User Manual

## Luminous Cruze+ 2KVA

# Luminous Cruze+ 2KVA Pure Sine Wave Inverter and RC 18000 150 Ah Tall Tubular Battery Combo User Manual

Model: Cruze+ 2KVA Inverter, RC 18000 150 Ah Tall Tubular Battery

## INTRODUCTION

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This manual provides essential information for the safe and efficient operation, installation, and maintenance of your Luminous Cruze+ 2KVA Pure Sine Wave Inverter and RC 18000 150 Ah Tall Tubular Battery Combo. Please read these instructions carefully before installation and use to ensure optimal performance and longevity of the product.



**Figure 1:** Luminous Cruze+ 2KVA Pure Sine Wave Inverter and two RC 18000 150 Ah Tall Tubular Batteries. This image displays the complete combo unit, including the inverter and two batteries, as they appear when packaged together.

## SETUP AND INSTALLATION

Proper installation is crucial for the safety and performance of your inverter and battery system. It is highly recommended that installation be performed by a qualified technician.

### 1. Unpacking and Inspection

- Carefully unpack all components: one Luminous Cruze+ 2KVA Pure Sine Wave Inverter and two Luminous RC 18000 150 Ah Tall Tubular Batteries.
- Inspect all items for any signs of physical damage. Report any damage to your supplier immediately.
- Ensure all included accessories, such as cables and the instruction manual, are present.

### 2. Site Selection

- Choose a well-ventilated area, away from direct sunlight, moisture, and flammable materials.

- The installation surface must be flat, stable, and capable of supporting the combined weight of the inverter and batteries.
- Maintain adequate clearance around the inverter for proper airflow and cooling.

### 3. Battery Connection

The system requires two 12V batteries connected in series to achieve a 24V DC input for the inverter.

1. Position the two RC 18000 150 Ah Tall Tubular Batteries securely.
2. Connect the positive terminal of the first battery to the negative terminal of the second battery using the provided series connection cable.
3. Connect the remaining positive terminal of the second battery to the positive terminal of the inverter.
4. Connect the remaining negative terminal of the first battery to the negative terminal of the inverter.
5. Ensure all connections are tight and secure to prevent arcing and ensure efficient power transfer.



**Figure 2:** Luminous RC 18000 150 Ah Tall Tubular Battery. This image highlights the six water level indicators and openable fasteners for maintenance.

### 4. Inverter Connection to Mains and Load

- Connect the inverter's input cable to a dedicated mains power outlet.
- Connect your household load (appliances) to the inverter's output sockets.
- Verify all connections before powering on the system.

## OPERATING INSTRUCTIONS

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Your Luminous inverter system is designed for user-friendly operation. Follow these steps for normal use.

### 1. Powering On

- After ensuring all connections are correct, switch on the main power supply to the inverter.
- Press the power button on the inverter. The digital display will illuminate, indicating the system status.

### 2. Digital Display Information

The inverter features a digital display that provides real-time information:

- **Power Back-up Time:** Displays the estimated remaining backup time in hours and minutes.
- **Battery Charging Time:** Shows the estimated time required for the battery to fully charge.
- **Battery Status:** Indicates charging, charged, or low battery.
- **Load Level:** Shows the current load connected to the inverter.

# LUMINOUS

## Intelligent Inverter with Brilliant Features



LCD  
Display



Intelligent 32 bit  
DSP Processor



Protection through  
Input AC MCB



Quick  
Charging



Pure Sine  
Wave



Supports Flat  
Tubular & SMF Battery



**Figure 3:** Luminous Cruze+ Inverter features an LCD display, 32-bit DSP processor, quick charging, pure sine wave output, and supports various battery types.

### 3. Load Capacity and Backup

The Luminous Cruze+ 2KVA inverter has a maximum peak load capacity of 1680 watts. The RC 18000 150 Ah batteries provide reliable backup. Typical running loads include:

- 1 Refrigerator (250 liters)
- 1 LED TV (40 inches)
- 3 Fans
- 2 Tube Lights
- 1 LED Bulb

The pure sine wave output ensures compatibility and safe operation for sensitive electronic appliances.

## An Intelligent Inverter With Long Lasting Battery To Power Your Home !



**Figure 4:** This chart illustrates the load capacity for the Cruze+ 2KVA inverter (e.g., 1 TV, 5 LED bulbs, 3 fans, 4 tubelights, 1 laptop, 1 Wi-Fi router) and backup time for a single 150 Ah battery at 50% and 75% load.

## MAINTENANCE

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

### 1. Battery Maintenance

- **Water Level Check:** Periodically check the electrolyte level in the tall tubular batteries using the 6 water level indicators. Ensure the level is maintained between the maximum and minimum marks.
- **Distilled Water Refill:** If the water level is low, refill with distilled water only. Do not use tap water or acid.
- **Terminal Cleaning:** Keep battery terminals clean and free from corrosion. Apply petroleum jelly to the terminals to prevent corrosion.
- **Ventilation:** Ensure the battery area is well-ventilated to dissipate gases produced during charging.

## RedCharge 18000 150Ah Tall Tubular Battery



**Tubular Plate  
Design**



**Factory Charged  
Ready to Use**



**6 Water Level  
Indicators**



**Minimum  
Maintenance**



**Figure 5:** The Luminous RedCharge 18000 battery features a tubular plate design, is factory charged, has 6 water level indicators, and requires minimum maintenance.

## 2. Inverter Maintenance

- **Cleaning:** Keep the inverter's exterior clean and free from dust. Use a dry cloth for cleaning. Do not use liquid cleaners.
- **Ventilation:** Ensure the inverter's ventilation openings are not blocked to prevent overheating.
- **Cable Inspection:** Periodically check all cables for any signs of wear, damage, or loose connections.

## TROUBLESHOOTING

This section provides solutions to common issues you might encounter. For problems not listed here, please contact customer support.

| Problem | Possible Cause | Solution |
|---------|----------------|----------|
|---------|----------------|----------|

| Problem                       | Possible Cause                                                      | Solution                                                                          |
|-------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Inverter not turning on       | No mains power, loose battery connections, low battery voltage.     | Check mains supply, verify battery connections, allow batteries to charge.        |
| No power output from inverter | Overload, short circuit, inverter fault.                            | Reduce connected load, check for short circuits in wiring, restart inverter.      |
| Battery not charging          | Mains power issue, faulty battery, inverter charging circuit fault. | Check mains supply, inspect battery terminals, contact service if issue persists. |
| Short backup time             | Overloading, aged battery, low electrolyte level.                   | Reduce load, check battery water levels, consider battery replacement if aged.    |

Always refer to the digital display for error codes or status messages which can help diagnose specific issues.

## SPECIFICATIONS

| Luminous Cruze+ 2KVA Pure Sine Wave Inverter |                            |
|----------------------------------------------|----------------------------|
| Model Name                                   | Cruze+ 2KVA                |
| Type                                         | Pure Sine Wave             |
| Capacity & DC Voltage                        | 2000VA / 24V               |
| Input Voltage Range                          | 100-285V                   |
| Maximum Peak Load                            | 1680 Watts                 |
| Dimensions (LxWxH)                           | 38 x 30.5 x 28 Centimeters |

| Luminous RC 18000 150 Ah Tall Tubular Battery |                                |
|-----------------------------------------------|--------------------------------|
| Type                                          | Tall Tubular Battery           |
| Rated Capacity                                | 150 Ah / 12V (each battery)    |
| Water Level Indicators                        | 6                              |
| Construction                                  | Rugged                         |
| Dimensions (LxWxH)                            | 50.2 x 19.1 x 44.0 Centimeters |

## WARRANTY INFORMATION

Your Luminous Inverter and Battery Combo comes with the following warranty:

- **Inverter:** 2 years warranty.
- **Battery:** 36 months warranty (18 Months flat + 18 Months pro-rata).

Please retain your purchase receipt and warranty card for any warranty claims. The warranty covers manufacturing defects under normal operating conditions. It does not cover damage due to improper installation, misuse, neglect, or unauthorized repairs.

## CUSTOMER SUPPORT

For technical assistance, service requests, or any queries regarding your Luminous product, please contact Luminous customer support.

- Refer to the contact details provided in your warranty card or on the official Luminous website.
- When contacting support, please have your product model number (Cruze+ 2KVA Inverter, RC 18000 Battery) and purchase details ready.

You can also visit the official Luminous store for more information: [Luminous Store on Amazon.in](#)