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› Luminous iCruze 9000 8.1 KVA Pure Sine Wave Super Inverter User Manual

Luminous iCruze 9000

Luminous iCruze 9000 8.1 KVA Pure Sine Wave Super Inverter

User Instruction Manual

1. INTRODUCTION

Thank you for choosing the Luminous iCruze 9000 8.1 KVA Pure Sine Wave Super Inverter. This inverter is designed to provide reliable and efficient power backup for your home, office, or shops. It features a pure sine wave output, ensuring the safety and longevity of your sensitive appliances. Please read this manual carefully before installation and operation to ensure proper use and maximum performance.

2. SAFETY INSTRUCTIONS

Always follow these safety precautions to prevent injury or damage to the inverter and connected appliances:

- Ensure proper grounding of the inverter.
- Do not open the inverter casing; refer servicing to qualified personnel.
- Keep the inverter away from water, moisture, and flammable materials.
- Ensure adequate ventilation around the inverter to prevent overheating.
- Disconnect all power sources before performing any maintenance or installation.
- Use only compatible batteries as specified in this manual.
- Keep children and unauthorized persons away from the inverter.

3. PRODUCT OVERVIEW

The Luminous iCruze 9000 is a high-capacity pure sine wave inverter designed for robust performance.



Run Heavy Loads



Intuitive Display



Supports Eco & UPS Mode



Safety for your Home

Figure 3.1: Luminous iCruze 9000 Inverter highlighting its ability to run heavy loads, intuitive display, ECO/UPS mode support, and safety features.

Key Features:

- **Pure Sine Wave Output:** Ensures the safety and smooth operation of sensitive electronic appliances.
- **High Capacity:** 8.1 KVA VA Rating with a peak load of 6480W, capable of running heavy loads.
- **Advanced LCD Display:** Provides real-time performance statistics including battery charging time, backup time, percentage load, and fault indications.
- **User Settable Controls:** Allows selection of ECO/UPS mode, battery type, battery capacity, and no-load shutdown prevention.
- **Smart Inverter Capability:** Can be converted to a smart inverter with an external Luminous Connect dongle (Wi-Fi/GSM) for mobile app monitoring.
- **Comprehensive Protection:** Includes AC MCB, DC MCB, By-Pass switch, no-load shutdown, overload, over-temperature, and short-circuit protection.
- **Wide Battery Compatibility:** Supports 8 x 12V batteries with 60Ah - 220Ah capacity, including flat plate, tubular, and

Display Indicator Details:

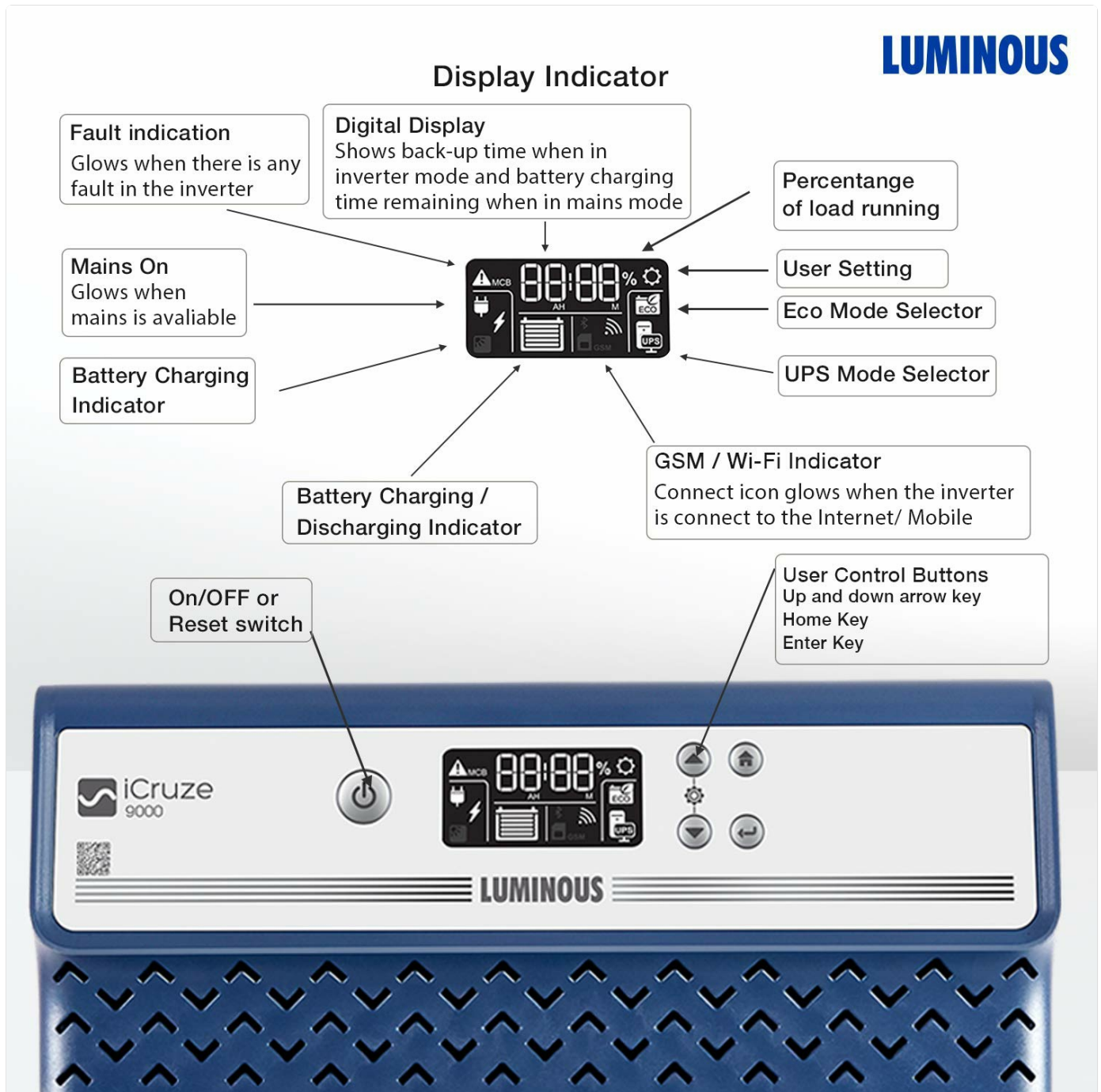


Figure 3.2: Detailed view of the inverter's front panel and LCD display, showing indicators for fault, mains on, battery charging, digital display (backup/charging time, load percentage), user setting, ECO mode, UPS mode, GSM/Wi-Fi, and user control buttons.

The LCD display provides critical information at a glance:

- **Fault Indication:** Glows when a fault is detected.
- **Mains On:** Indicates when mains power is available.
- **Battery Charging Indicator:** Shows battery charging status.
- **Digital Display:** Shows backup time (in inverter mode) and battery charging time remaining (in mains mode).
- **Percentage of Load Running:** Displays the current load on the inverter.
- **User Setting:** Accesses user-configurable options.
- **Eco Mode Selector:** Button to select ECO mode.
- **UPS Mode Selector:** Button to select UPS mode.

- **GSM / Wi-Fi Indicator:** Glows when the inverter is connected to the internet via a dongle.
- **On/OFF or Reset Switch:** Power control and reset functionality.
- **User Control Buttons:** Up/down arrow keys, Home key, and Enter key for navigation and selection.

Appliance Compatibility:

RUNNING APPLIANCES







REFRIGERATOR



1.5 TON AC



LED TV



MOTOR

Figure 3.3: The Luminous iCruze 9000 Inverter is capable of powering various household and office appliances, including refrigerators, 1.5-ton air conditioners, LED TVs, and motors.

Smart Control and Pure Sine Wave Technology:



Intelligent Home UPS with Mobile App Control

WiFi/GSM
Connectivity*



iCruze
App Enabled

*user needs to buy Luminous connect dongle separately to enable connectivity

Figure 3.4: The iCruze 9000 can be enabled for intelligent home UPS functionality with mobile app control (Wi-Fi/GSM connectivity requires a separately purchased Luminous connect dongle).

Sinewave Wave Inverter

Noiseless operations
with the help of low
harmonic distortion



Figure 3.5: The Sinewave Wave Inverter technology ensures noiseless operations with low harmonic distortion, providing clean power for your appliances.

4. SETUP AND INSTALLATION

Proper installation is crucial for the safe and efficient operation of your inverter. It is recommended that installation be performed by a qualified electrician.

4.1 Unpacking

Carefully unpack the inverter and check for any signs of damage. The package includes:

- 1 unit Inverter
- Warranty Card

4.2 Placement

- Place the inverter in a cool, dry, and well-ventilated area.

- Avoid direct sunlight, heat sources, and areas with high humidity or dust.
- Ensure sufficient clearance around the inverter for proper airflow.

4.3 Battery Connection

The iCruze 9000 is compatible with 8 x 12V batteries with a capacity of 60Ah - 220Ah. It supports flat plate, tubular, and SMF battery types.

1. Ensure the inverter is turned OFF before connecting batteries.
2. Connect the positive (+) terminal of the battery bank to the positive (+) terminal of the inverter.
3. Connect the negative (-) terminal of the battery bank to the negative (-) terminal of the inverter.
4. Double-check all connections for polarity and tightness. Loose connections can cause overheating and damage.

4.4 Mains Input and Load Connection

1. Connect the mains input cable from your wall socket to the inverter's AC input port.
2. Connect your appliances to the inverter's AC output sockets. Ensure the total load does not exceed the inverter's capacity (6480W).

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off

- To turn ON the inverter, press and hold the On/OFF/Reset switch on the front panel until the display illuminates.
- To turn OFF the inverter, press and hold the On/OFF/Reset switch until the display turns off.

5.2 Mode Selection (ECO/UPS)

The inverter offers two operating modes:

- **UPS Mode:** Provides a fast changeover time, ideal for sensitive electronic appliances like computers, ensuring uninterrupted power. Select this mode using the UPS Mode Selector button.
- **ECO Mode:** Offers a wider input voltage range, reducing battery usage and extending battery life. Suitable for less sensitive appliances. Select this mode using the ECO Mode Selector button.

5.3 Battery Type and Capacity Setting

To optimize charging and backup performance, set the correct battery type and capacity:

1. Press the User Setting button to enter the settings menu.
2. Use the Up/Down arrow keys to navigate to 'Battery Type' or 'Battery Capacity'.
3. Press the Enter key to select and adjust the setting.
4. Save your changes before exiting the menu.

5.4 No-Load Shutdown Prevention

This feature prevents the inverter from shutting down when there is no load connected, which can be useful for specific applications. This can be configured via the User Setting menu.

5.5 Smart Inverter Functionality (Optional)

To enable smart features and monitor your inverter via a mobile app, you need to purchase an external Luminous Connect dongle (Wi-Fi/GSM) separately. Follow the dongle's instructions for connection and app setup. Once connected, the GSM/Wi-Fi indicator on the display will glow.

6. MAINTENANCE

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

- **Cleaning:** Keep the inverter clean and free from dust. Use a dry cloth to wipe the exterior. Do not use liquid cleaners.
- **Ventilation:** Ensure ventilation openings are not blocked.
- **Battery Check:** Regularly inspect battery terminals for corrosion. Clean them if necessary. For liquid-filled batteries, check electrolyte levels periodically and top up with distilled water if needed.
- **Connections:** Periodically check all electrical connections for tightness.
- **Professional Inspection:** Consider a professional inspection at least once a year.

7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Inverter not turning ON	No battery connection, low battery voltage, faulty ON/OFF switch.	Check battery connections, charge batteries, contact service if switch is faulty.
No output power	Overload, short circuit, inverter in fault mode, output MCB tripped.	Reduce load, check for short circuits, reset inverter, check/reset MCB.
Battery not charging	Mains power not available, loose connections, faulty battery, charger issue.	Check mains supply, tighten connections, test battery, contact service.
Inverter beeping continuously	Overload, low battery, fault condition.	Check display for fault code, reduce load, allow battery to charge.

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

8. SPECIFICATIONS

Feature	Detail
Model Name	iCruze
Item Model Number	iCruze-9000
VA Rating	8.1 KVA
Peak Load	6480W
Output Voltage (Inverter Mode)	230V
Inverter Type	Pure Sine Wave
Battery Compatibility	8 x (12V) battery with 60Ah - 220Ah Capacity (Flat Plate, Tubular, SMF)
Power Source	Battery Powered
Item Weight	48 kg

Feature	Detail
Item Dimensions (LxWxH)	30 x 48.7 x 45.2 Centimeters
Protection Features	AC MCB, DC MCB, By-Pass switch, No-load shutdown, Overload, Over-temperature, Short-circuit
Recommended Uses	Home, Office, Shops

9. WARRANTY AND SUPPORT

The Luminous iCruze 9000 Inverter comes with a **2-year warranty** on manufacturing defects from the date of purchase. Please retain your purchase receipt for warranty claims.

For technical assistance, service requests, or to learn more about Luminous products, please visit the official Luminous store or contact their customer support. You can find more information at the [Luminous Store on Amazon.in](#).

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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