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## Luminous Shakti Charge+ 1150

# Luminous Shakti Charge+ 1150 900Va Square Wave Inverter User Manual

Model: Shakti Charge+ 1150

## 1. INTRODUCTION AND OVERVIEW

The Luminous Shakti Charge+ 1150 900Va Square Wave Inverter is designed to provide reliable power backup for your home or office. This inverter features advanced technology to ensure efficient performance and protection for your appliances. It is built with quality materials and advanced techniques to meet high standards.



**Figure 1:** Front view of the Luminous Shakti Charge+ 1150 900Va Square Wave Inverter, showcasing its compact design and user interface.

### Key Features:

- Fast charging and efficient low voltage charging capability.
- Inbuilt battery gravity builder for enhanced battery life.

- Powerful charging mechanism for quick replenishment.
- Dual operating modes: Eco Mode for energy saving and UPS Mode for sensitive appliances.
- Ability to charge the battery with full current even at 95V input.

## 2. SAFETY INSTRUCTIONS

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Please read all safety instructions carefully before installing or operating the inverter. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Installation:** Ensure the inverter is installed by a qualified technician.
- **Ventilation:** Place the inverter in a well-ventilated area, away from direct sunlight, heat sources, and flammable materials. Maintain adequate clearance around the unit for airflow.
- **Water and Moisture:** Do not expose the inverter to water, rain, or excessive humidity. Avoid operating it with wet hands.
- **Grounding:** Always ensure the inverter is properly grounded to prevent electric shock.
- **Battery Safety:** Batteries contain corrosive acid. Wear protective gear (gloves, eye protection) when handling batteries. Do not short-circuit battery terminals.
- **Children and Pets:** Keep the inverter and batteries out of reach of children and pets.
- **Overload:** Do not overload the inverter beyond its specified capacity. This can damage the unit and connected appliances.
- **Maintenance:** Disconnect all power before performing any maintenance or cleaning.
- **Repairs:** Do not attempt to open or repair the inverter yourself. Refer all servicing to qualified service personnel.

## 3. SETUP GUIDE

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Follow these steps for the initial setup of your Luminous Shakti Charge+ 1150 inverter. It is recommended to have a qualified electrician assist with the installation.

1. **Unpacking:** Carefully unpack the inverter and inspect it for any damage. Report any damage to your dealer immediately.
2. **Placement:** Choose a cool, dry, and well-ventilated location. Ensure the inverter is placed on a stable, non-flammable surface.
3. **Battery Connection:**
  - Connect the positive (+) terminal of the battery to the positive (+) terminal of the inverter.
  - Connect the negative (-) terminal of the battery to the negative (-) terminal of the inverter.
  - Ensure connections are tight and secure. Incorrect polarity can cause severe damage.
4. **AC Input Connection:** Connect the inverter's AC input cord to a properly grounded wall outlet. Ensure the mains supply voltage is within the inverter's operating range.
5. **Load Connection:** Connect your appliances (lights, fans, etc.) to the output sockets of the inverter. Do not exceed the inverter's rated capacity.
6. **Initial Power On:** After all connections are secure, switch on the inverter's main power switch. Observe the indicator lights for normal operation.

## 4. OPERATING INSTRUCTIONS

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Understanding the basic operation of your inverter will ensure optimal performance and longevity.

- **Power On/Off:** Use the main power switch on the front panel to turn the inverter ON or OFF.
- **Mains Mode:** When the mains supply is present and within acceptable limits, the inverter will charge the battery and pass the mains power to the connected loads.
- **Inverter Mode:** In case of a power outage or mains voltage fluctuation, the inverter will automatically switch to battery power, providing backup to your connected appliances.
- **Eco Mode:** This mode is suitable for general appliances like lights and fans. It optimizes battery usage by allowing a wider input voltage range, reducing frequent switching to battery mode.
- **UPS Mode:** This mode is ideal for sensitive electronic devices such as computers, ensuring a stable and uninterrupted power supply with a narrower input voltage window.
- **Charging:** The inverter features fast charging and an inbuilt battery gravity builder to maintain battery health. It can charge the battery effectively even at low input voltages (down to 95V).
- **Indicators:** Pay attention to the LED indicators on the front panel, which typically show Mains ON, Battery Charging, Inverter ON, Overload, and Battery Low status. Refer to the specific indicator guide in your product's physical manual for detailed explanations.

## 5. MAINTENANCE

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Regular maintenance ensures the long life and efficient operation 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.
- **Ventilation:** Ensure that the ventilation openings are not blocked. Clear any dust or debris that might obstruct airflow.
- **Battery Water Level (for lead-acid batteries):** If using a lead-acid battery, regularly check the electrolyte level and top up with distilled water as needed. Do not overfill.
- **Terminal Connections:** Periodically check battery and inverter terminal connections for tightness. Loose connections can cause overheating and power loss.
- **Environmental Conditions:** Ensure the inverter is operating within its specified temperature and humidity ranges.
- **Professional Check-up:** Consider having a qualified technician inspect your inverter and battery system annually.

## 6. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Inverter not turning ON	Main switch OFF, loose battery connections, discharged battery.	Ensure main switch is ON. Check and tighten battery terminals. Allow battery to charge if mains is present.
No output power in Inverter Mode	Battery low, overload, inverter fault.	Reduce load. Check battery charge level. If problem persists, contact service.
Overload alarm	Too many appliances connected.	Disconnect some appliances to reduce the load below the inverter's capacity.
Battery not charging	Mains supply absent, loose AC input connection, charger fault.	Check mains supply. Ensure AC input cord is securely plugged in. Contact service if charger fault is suspected.

Problem	Possible Cause	Solution
Unusual noise from inverter	Loose components, fan obstruction, internal fault.	Ensure inverter is on a stable surface. Check for fan obstruction. If noise persists, contact service.

## 7. SPECIFICATIONS

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Detailed technical specifications for the Luminous Shakti Charge+ 1150 900Va Square Wave Inverter.

Feature	Detail
Brand	Luminous
Model Number	Shakti Charge+ 1150
Type	Square Wave Inverter
VA Rating	900 VA
Voltage	95 Volts (minimum charging)
Item Weight	11 kg 700 g
Manufacturer	Luminous
Generic Name	Home Inverter & UPS

*Note: Specifications are subject to change without prior notice for product improvement.*

## 8. WARRANTY AND SUPPORT

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Luminous products are known for their quality and reliability.

- **Warranty:** Please refer to the warranty card provided with your product for detailed terms and conditions regarding the warranty period and coverage. Keep your purchase receipt for warranty claims.
- **Extended Warranty:** Extended warranty plans may be available from authorized providers to further protect your investment. For example, 1-Year and 2-Year Extended Warranty Plans by Onsitego are often available.
- **Customer Support:** For technical assistance, service requests, or any queries, please contact Luminous customer support. You can find contact details on the official Luminous website or your product documentation.
- **Online Resources:** Visit the official [Luminous Store on Amazon](#) for more product information and updates.