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› Luminous NXG 1150 Solar Inverter User Manual

## Luminous NXG 1150

# Luminous NXG 1150 Solar Inverter User Manual

Model: NXG 1150

## 1. INTRODUCTION

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This manual provides essential information for the safe and efficient operation of your Luminous NXG 1150 Solar Inverter. Please read this manual thoroughly before installation and use, and retain it for future reference.

The Luminous NXG 1150 is a pure sinewave solar inverter designed to provide reliable power backup for homes, offices, and shops. It features intelligent load sharing and high efficiency for optimal performance.

## 2. SAFETY INSTRUCTIONS

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- Always ensure the inverter is installed by a qualified technician.
- Do not open the inverter casing; there are no user-serviceable parts inside.
- Keep the inverter away from water, moisture, and direct sunlight.
- Ensure proper ventilation around the inverter to prevent overheating.
- Disconnect all power sources before performing any maintenance or cleaning.
- Do not connect non-compatible batteries or solar panels.

## 3. PRODUCT OVERVIEW

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The Luminous NXG 1150 Solar Inverter is designed for efficient power conversion and reliable backup. Key features include:

- **Pure Sinewave Output:** Ensures compatibility with sensitive electronics.
- **Intelligent Load Sharing (ISOT Technology):** Optimizes performance and extends battery life.
- **LCD Display:** Provides real-time status and operational information.
- **High Efficiency:** Reduces energy costs.
- **Low Maintenance Design:** Simplifies upkeep.



Figure 3.1: Front view of the Luminous NXG 1150 Solar Inverter, showing the LCD display and indicator icons for Mains On, Solar Charging, Mains Charging, Power Saver, Battery Low, Over Load, and System On.



Figure 3.2: The Luminous NXG 1150 Solar Inverter, highlighting its BIS certification for quality and safety standards.

## 4. SETUP AND INSTALLATION

Proper installation is crucial for the inverter's performance and safety. It is highly recommended that installation be performed by a certified Luminous service technician.

### 4.1 Unpacking

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

- 1 x Luminous NXG 1150 Solar Inverter
- 1 x Operating Manual

### 4.2 Site Selection

Choose a location that is:

- Well-ventilated and dry.
- Away from direct sunlight, heat sources, and flammable materials.
- Accessible for maintenance but secure from unauthorized access.
- Close to the battery bank and main electrical panel to minimize cable length.

### 4.3 Wiring Connections

All wiring must comply with local electrical codes and standards. Ensure all connections are tight and secure.

1. **Battery Connection:** Connect the battery terminals to the inverter's battery input terminals, ensuring correct polarity (positive to positive, negative to negative).
2. **Solar Panel Connection:** Connect the solar panel array to the inverter's solar input terminals. Verify the voltage and current ratings of the solar panels are within the inverter's specifications.

3. **Mains Input Connection:** Connect the AC mains supply to the inverter's mains input terminal.
4. **Load Output Connection:** Connect your home/office electrical loads to the inverter's AC output terminals.
5. **Grounding:** Ensure the inverter is properly grounded to prevent electrical hazards.

*Note: Refer to the detailed wiring diagram provided in the separate installation guide for specific connection points.*

## 5. OPERATING INSTRUCTIONS

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### 5.1 Initial Power-Up

1. After all connections are securely made, switch on the battery breaker (if applicable).
2. Switch on the inverter's main power switch. The LCD display will illuminate, and the inverter will perform a self-test.
3. If connected to mains, the inverter will detect the mains supply and begin charging the battery (if needed).
4. If solar panels are connected and sunlight is available, the inverter will begin solar charging.

### 5.2 LCD Display Indicators

The LCD display provides critical information about the inverter's status:

- **Mains On:** Indicates that the inverter is receiving power from the utility grid.
- **Solar Charging:** Indicates that the battery is being charged by solar panels.
- **Mains Charging:** Indicates that the battery is being charged by the utility grid.
- **Power Saver:** Indicates the inverter is operating in power-saving mode.
- **Battery Low:** Warns that the battery charge is critically low.
- **Over Load:** Indicates that the connected load exceeds the inverter's capacity.
- **System On:** Indicates the inverter is operational and providing power.

### 5.3 Operating Modes

The Luminous NXG 1150 automatically switches between modes based on power availability and load requirements:

- **Grid Mode:** When mains power is available, the inverter charges the battery and passes mains power to the loads.
- **Solar Mode:** When solar power is sufficient, the inverter prioritizes solar energy to power loads and charge batteries.
- **Battery Mode:** During power outages or when solar power is insufficient, the inverter draws power from the battery to supply loads.

## 6. MAINTENANCE

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Regular maintenance ensures the longevity and optimal performance of your Luminous NXG 1150 Solar Inverter.

- **Cleaning:** Periodically clean the inverter's exterior with a dry, soft cloth. Ensure ventilation openings are free from dust and debris. Do not use liquid cleaners.
- **Connections:** Annually check all electrical connections for tightness and corrosion. Loose connections can cause overheating and poor performance.
- **Battery Maintenance:** Follow the battery manufacturer's guidelines for maintenance, including checking electrolyte levels (for flooded batteries) and terminal cleaning.
- **Ventilation:** Ensure the area around the inverter remains clear to allow for adequate airflow.

*Note: For any internal issues or complex repairs, contact authorized Luminous service personnel.*

## 7. TROUBLESHOOTING

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This section provides solutions to common issues you might encounter. If the problem persists, contact Luminous customer support.

Problem	Possible Cause	Solution
Inverter not turning on	No battery connection; Low battery voltage; Inverter switch off	Check battery connections; Charge battery; Turn on inverter switch
No output power	Overload; Short circuit; Battery low	Reduce load; Check for short circuits; Charge battery
Battery not charging	Mains power off; Solar panels not connected/dirty; Faulty battery	Check mains supply; Inspect solar connections/clean panels; Test battery
Overload alarm	Too many appliances connected	Disconnect some appliances; Restart inverter

## 8. SPECIFICATIONS

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Feature	Specification
Model Number	NXG 1150
Capacity	1150VA
Waveform	Pure Sinewave
Max Supported Panel Power	850 Wp
Rated Power	700 Watt Hours
Battery Capacity (Recommended)	150 Amp Hours
Product Dimensions (LxWxH)	37.5 x 31.5 x 13.5 Centimeters
Item Weight	11 kg 500 g
Recommended Uses	Home, Office
Power Source	Solar and Battery Powered

## 9. WARRANTY AND SUPPORT

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The Luminous NXG 1150 Solar Inverter comes with a **36-month warranty** from the date of purchase, covering manufacturing defects. Please retain your purchase receipt for warranty claims.

For technical assistance, service requests, or warranty claims, please contact Luminous customer support. Refer to the contact information provided on the product packaging or the official Luminous website.

Extended warranty plans may be available for purchase. Please inquire with your dealer or Luminous customer service for details.

## 10. IMPORTANT NOTES

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**Video Content:** No official product videos from the seller were available in the provided data to embed in this manual.

