

## Luminous NXG+1625

# Luminous NXG+ 1625 Inverter System User Manual

Model: NXG+1625

## 1. INTRODUCTION AND OVERVIEW

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This manual provides essential instructions for the safe and efficient installation, operation, and maintenance of your Luminous NXG+ 1625 Inverter system. This system includes one Luminous NXG+ 1625 Inverter, two LPTT 12150H Batteries, and two 330W Solar Panels, designed to provide reliable power backup and solar energy utilization.

Please read this manual thoroughly before attempting any installation or operation. Keep it for future reference.

## 2. SAFETY INSTRUCTIONS

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**Important Safety Information:** Failure to follow these instructions may result in electric shock, fire, serious injury, or death. Always consult a qualified electrician for installation.

- **Electrical Hazard:** This system operates with high voltage and current. Do not open the inverter casing or attempt repairs yourself.
- **Battery Safety:** Batteries contain corrosive acid and produce explosive gases. Ensure proper ventilation. Wear protective eyewear and gloves when handling batteries. Do not smoke or allow open flames near batteries.
- **Solar Panel Safety:** Solar panels generate electricity when exposed to light. Cover panels during installation to prevent electric shock.
- **Grounding:** Ensure all components are properly grounded according to local electrical codes.
- **Environment:** Install the system in a dry, well-ventilated area, away from direct sunlight, heat sources, and flammable materials.
- **Children and Pets:** Keep the system out of reach of children and pets.

## 3. PACKAGE CONTENTS

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Verify that all components are present and undamaged upon unpacking:

- 1 x Luminous NXG+ 1625 Inverter
- 2 x Luminous LPTT 12150H Battery

- 2 x Luminous 330W Solar Panel
- User Manual (this document)
- Warranty Card

## 4. PRODUCT OVERVIEW

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The Luminous NXG+ 1625 system is an integrated solar power solution. Below is an image of the main components.



*Figure 1: Luminous NXG+ 1625 Inverter, LPTT 12150H Battery, and 330W Solar Panel. This image displays the primary components of the solar power system, including the inverter unit, two batteries, and two solar panels.*

### 4.1. Luminous NXG+ 1625 Inverter

The inverter converts DC power from the batteries and solar panels into AC power for your home appliances. It features a pure sine wave output for sensitive electronics and intelligent solar charge control.

### 4.2. Luminous LPTT 12150H Battery

These are deep cycle tubular batteries designed for long power backup duration and efficient charging from solar panels. Two batteries are included for increased capacity.

### 4.3. Luminous 330W Solar Panel

The two 330W solar panels capture sunlight and convert it into DC electricity, which is then used to charge the batteries and power the inverter.

## 5. SETUP AND INSTALLATION

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**Professional Installation Recommended:** Due to the complexity and electrical hazards involved, it is strongly recommended that a certified Luminous technician or qualified electrician performs the installation.

### 5.1. Site Selection

- **Inverter:** Choose a dry, well-ventilated, and easily accessible location, away from direct sunlight and moisture. Ensure adequate clearance for air circulation.
- **Batteries:** Place batteries in a well-ventilated area, preferably on a dedicated battery trolley or stand, away from living spaces due to gas emissions.
- **Solar Panels:** Install panels on a south-facing (in the Northern Hemisphere) or north-facing (in the Southern Hemisphere) roof or ground mount, free from shading throughout the day. Ensure proper tilt angle for maximum sun exposure.

### 5.2. Wiring Connections (Overview)

This section provides a general overview. Refer to the detailed wiring diagrams provided with the product packaging for precise connections.

1. **Battery Connection:** Connect the two LPTT 12150H batteries in series or parallel as specified by the inverter's voltage requirements (typically 24V for this model). Ensure correct polarity (+ to + and - to - for parallel, or + to - for series). Connect the battery bank to the inverter's battery terminals.
2. **Solar Panel Connection:** Connect the two 330W solar panels in series or parallel to achieve the optimal voltage and current for the inverter's solar charge controller. Connect the combined solar array to the inverter's solar input terminals.
3. **AC Input Connection:** Connect the inverter's AC input to your main utility power supply (grid).
4. **AC Output Connection:** Connect the inverter's AC output to your home's load distribution board or specific appliances.
5. **Grounding:** Ensure the inverter chassis, battery rack, and solar panel frames are properly grounded to an earth electrode.

**Warning:** Double-check all connections before powering on the system. Incorrect wiring can cause severe damage to the equipment and pose a fire hazard.

## 6. OPERATING INSTRUCTIONS

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### 6.1. Initial Power-Up

1. Ensure all connections are secure and correct.
2. Turn on the main AC input breaker to the inverter.
3. Turn on the DC breaker from the solar panels (if applicable).
4. Turn on the battery breaker/switch (if applicable).
5. Switch on the inverter's main power button. Observe the display for status indicators.

### 6.2. Normal Operation

- **Grid Mode:** When utility power is available, the inverter will charge the batteries and pass through grid power to your loads.
- **Solar Charging:** During daylight hours, the solar panels will charge the batteries. The inverter prioritizes solar charging.

- **Battery Mode (Backup):** In case of a power outage, the inverter automatically switches to battery power, supplying AC power to your connected loads.
- **Overload:** If the connected load exceeds the inverter's capacity, an overload alarm may sound, and the inverter may shut down. Reduce the load and restart the inverter.

### 6.3. Shutting Down the System

1. Turn off the inverter's main power button.
2. Turn off the AC input breaker.
3. Turn off the DC breaker from the solar panels.
4. Turn off the battery breaker/switch.

## 7. MAINTENANCE

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

- **Battery Maintenance (Monthly):**
  - Check electrolyte levels in tubular batteries and top up with distilled water if necessary.
  - Clean battery terminals to prevent corrosion. Apply petroleum jelly if needed.
  - Ensure battery area is well-ventilated.
- **Solar Panel Cleaning (Quarterly/As Needed):**
  - Clean solar panels with water and a soft brush or cloth to remove dust, dirt, and debris. Avoid abrasive cleaners.
  - Ensure panels are not shaded by trees or other obstructions.
- **Inverter Inspection (Annually):**
  - Check for loose connections or damaged wiring.
  - Ensure inverter ventilation openings are clear of dust and obstructions.
  - Listen for unusual noises.
- **Professional Check-up:** Consider an annual inspection by a qualified technician.

## 8. TROUBLESHOOTING

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Before contacting customer support, review the following common issues and solutions:

Problem	Possible Cause	Solution
Inverter not turning on	No AC input, discharged batteries, loose connections, inverter switch off.	Check AC input supply, ensure batteries are charged, verify all connections, turn on inverter switch.
No power output from inverter	Overload, short circuit, inverter fault, output breaker tripped.	Reduce load, check for short circuits, reset output breaker, restart inverter. If problem persists, contact support.
Batteries not charging	No grid power, solar panels shaded/dirty, faulty battery connections, inverter charging fault.	Check grid supply, clean solar panels, verify solar panel and battery connections, check inverter display for charging status.
Inverter beeping continuously	Low battery, overload, internal fault.	Check battery charge level, reduce load, refer to inverter display for specific error codes.

If troubleshooting steps do not resolve the issue, do not attempt further repairs. Contact Luminous customer support.

## 9. SPECIFICATIONS

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Feature	Detail
Brand	Luminous
Model Name (Inverter)	NXG+1625
Power Source	Battery Powered (Solar/Grid Charging)
Wattage (Solar Panel)	330 Watts (per panel)
Battery Capacity	12150 Milliamp Hours (per battery)
Number of Outlets (Inverter)	1
Electrical Output Waveform	Pure Sine Wave
Item Dimensions (L x W x H)	197.6L x 28W x 31H Centimeters (Overall system components vary)
Item Weight	176900 Grams (Overall system components vary)
Colour	Blue (Inverter)
Manufacturer	Luminous Power Technologies Private Limited
Country of Origin	India

## 10. WARRANTY AND SUPPORT

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### 10.1. Warranty Information

Your Luminous NXG+ 1625 Inverter system comes with a standard manufacturer's warranty. Additionally, extended warranty plans are available:

- 1 Year Extended Warranty Plan by Onsitego
- 2 Year Extended Warranty Plan by Onsitego

Please refer to your warranty card for specific terms and conditions.

### 10.2. Customer Support

For technical assistance, service requests, or warranty claims, please contact Luminous customer support:

**Manufacturer Contact Information:**

Luminous Power Technologies Private Limited

Plot 150 Honda City Road, Sector 44, Gurugram, Haryana 122003, India

Please have your product model number (NXG+1625) and serial number ready when contacting support.