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› Livguard LGS1100i Pure Sine Wave Inverter Instruction Manual

Livguard LGS1100i

Livguard LGS1100i Pure Sine Wave Inverter Instruction Manual

Model: LGS1100i | 900 VA/12V

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your Livguard LGS1100i Pure Sine Wave Inverter. Please read it thoroughly before installation and use. The LGS1100i is a 900 VA/12V pure sine wave inverter designed to provide reliable power backup for homes, offices, and shops. It features Smart AI charging, low maintenance requirements, and dual UPS/ECO mode support.

2. PRODUCT OVERVIEW

Familiarize yourself with the components and indicators of your Livguard LGS1100i inverter.



This image illustrates the key components and indicators on the Livguard LGS1100i inverter. The front panel features LED indicators for Mains ON, Charging, UPS ON, Inverter ON/Overload/Short Circuit, Low Battery, Eco Mode, and Power ON, along with the Power ON/OFF switch. The rear panel includes the Output Socket, Thermal Circuit Breaker, Mains Cord, Battery Terminal +VE, Battery Terminal -VE, Fan, UPS/ECO Mode Selection switch, Charging Selection switch, and Battery Type Selection switch.

Front Panel Indicators and Controls:

- **Mains ON:** Indicates that the inverter is receiving AC input power.
- **Charging:** Indicates that the battery is currently being charged.
- **UPS ON:** Indicates the inverter is operating in UPS mode.
- **Inverter ON/Overload/Short Circuit:** Indicates inverter operation or fault conditions.
- **Low Battery:** Indicates the battery charge is low.
- **Eco Mode:** Indicates the inverter is operating in ECO mode.
- **Power ON:** Indicates the inverter is powered on.
- **Power ON/OFF Switch:** Used to turn the inverter on or off.

Rear Panel Components:

- **Output Socket:** For connecting appliances.
- **Thermal Circuit Breaker:** Provides protection against overcurrent.
- **Mains Cord:** For connecting to AC input power.
- **Battery Terminal +VE (Red):** For connecting the positive terminal of the battery.
- **Battery Terminal -VE (Black):** For connecting the negative terminal of the battery.
- **Fan:** For cooling the inverter.
- **UPS/ECO Mode Selection:** Switch to select between UPS and ECO operating modes.
- **Charging Selection:** Switch for adjusting charging parameters.
- **Battery Type Selection:** Switch to select the battery type (Flat Plate, Tubular, SMF, Local).

3. SETUP

3.1 Unpacking

Carefully unpack the inverter and ensure all components are present: Inverter unit, User Manual, and Warranty Card.

3.2 Placement

Place the inverter in a well-ventilated area, away from direct sunlight, moisture, and flammable materials. Ensure adequate clearance for airflow around the unit, especially near the fan.

3.3 Battery Connection

The LGS1100i is compatible with one 12V C20 battery with a capacity between 90 Ah and 260 Ah.

1. Connect the positive (+) terminal of the battery to the red (+VE) terminal on the inverter.
2. Connect the negative (-) terminal of the battery to the black (-VE) terminal on the inverter.
3. Ensure all battery connections are secure and tight to prevent arcing and ensure efficient power transfer.
4. Select the appropriate battery type (Flat Plate, Tubular, SMF, or Local) using the 4-mode selector switch on the inverter for optimal charging and extended battery life.

Smart Power Solution.

Maximum Efficiency.

Livguard
INVERTER & BATTERIES



Artificial Intelligent
Charging



Premium New Age Design
with LED Display



UPS and ECO
Mode Support



Four Type Battery
Selector Switch



Enhanced
Battery Life



Improved
Inverter Life



This image shows the rear panel of the Livguard LGS1100i inverter, highlighting the battery terminals (+VE and -VE) for proper battery connection.

3.4 Mains Connection

Connect the inverter's mains cord to a grounded AC power outlet.

3.5 Load Connection

Connect your appliances to the output socket of the inverter.

4. OPERATING INSTRUCTIONS

4.1 Powering On/Off

Press the Power ON/OFF switch located on the front panel to turn the inverter on or off.

4.2 Mode Selection

The inverter supports two operating modes: UPS and ECO. Use the UPS/ECO Mode Selection switch on the rear panel to choose the desired mode.

- **UPS Mode:** Provides an uninterrupted power supply, ideal for sensitive appliances like computers and laptops, ensuring no power interruption during changeover from mains to battery and vice versa.
- **ECO Mode:** Optimizes energy consumption by allowing a brief power interruption (typically a few milliseconds) during changeover. This mode is suitable for less sensitive appliances and can help save electricity.

4.3 Smart AI Charging

The inverter features Smart AI Charging, which analyzes the battery health and applies a suitable charging current according to the battery type and condition. This intelligent charging prevents overcharging, charges faster, and enhances battery life.

4.4 Running Load Capacity

The Livguard LGS1100i inverter supports a peak load of 765 Watts. It is designed to power essential home and office appliances.



This table provides a guide for the number of common appliances that can be supported by different Livguard inverter models. For the LGS1100i (900 VA, 12V), it can typically run 2 LED bulbs (10W each), 1 LED tube light (20W), 1 Wi-Fi router (20W), 1 LED TV (75W), 1 laptop (65W), 3 ceiling fans (80W each), 1 room cooler (120W), and 1 fridge (200W), with a total load of approximately 760 Watts. Note that actual backup time depends on battery capacity and condition, and appliance load depends on the inverter's VA rating.

5. MAINTENANCE

The Livguard LGS1100i inverter is designed for low maintenance. Adhering to these simple guidelines will ensure optimal performance and longevity:

- **Cleaning:** Keep the inverter clean and free from dust. Use a dry, soft cloth for cleaning. Do not use liquid cleaners or solvents.
- **Ventilation:** Ensure proper ventilation around the unit at all times. Do not block the fan or air vents.
- **Battery Terminals:** Regularly inspect battery terminals for any signs of corrosion. If corrosion is present, disconnect the battery (following safety precautions) and clean the terminals thoroughly.

- **Environmental Conditions:** Avoid exposing the inverter to extreme temperatures, high humidity, or direct water contact.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your inverter. For problems not listed here, please contact customer support.

- **No Power Output:**
Possible Causes: Inverter is off, mains power failure, loose battery connections, overload/short circuit.
Solutions: Ensure the inverter is powered on. Check if mains power is available. Verify battery connections are secure. Check the 'Inverter ON/Overload/Short Circuit' indicator. Reduce connected load if an overload is indicated and restart.
- **Battery Not Charging:**
Possible Causes: Mains power not reaching inverter, loose mains cord, incorrect battery type selection, battery fault.
Solutions: Ensure the mains cord is securely plugged into a working outlet. Check the 'Mains ON' indicator. Verify the correct battery type is selected using the switch on the rear panel. If the issue persists, contact support.
- **Overload/Short Circuit Indication:**
Possible Causes: Too many appliances connected, faulty appliance, internal short circuit.
Solutions: The inverter features Dual Thermal Protect for the PCB and transformer. If an overload occurs, the inverter may shut down automatically. Disconnect some appliances to reduce the load and then restart the inverter. If a short circuit is suspected, disconnect all loads and contact support.
- **Low Battery Indicator:**
Possible Causes: Prolonged power outage, battery nearing end of charge.
Solutions: This indicates the battery charge is low. The inverter will switch to battery power and may shut down if the battery level drops further to protect the battery. Allow the battery to recharge when mains power is restored.

7. SPECIFICATIONS

Key technical specifications for the Livguard LGS1100i Pure Sine Wave Inverter:

Specification	Value
Brand	Livguard
Model Name	LGS1100i
Inverter Capacity (VA)	900
Wattage	765 Watts
Voltage	12 Volts
Output Voltage	12 Volts
Electrical Output Waveform	Pure Sine Wave
Frequency	50 Hz
Recommended Uses	Home
Battery Capacity Compatibility	90 Ah - 260 Ah (12V C20)
Item Dimensions (L x W x H)	27.5L x 24.2W x 12.4H Centimeters

Specification	Value
Item Weight	9000 Grams (9 kg)
Colour	Black

8. WARRANTY AND SUPPORT

8.1 Warranty Information

The Livguard LGS1100i Pure Sine Wave Inverter comes with a **3-year manufacturer warranty** from the date of purchase. Please retain your purchase receipt and warranty card for any claims.

Perfect Inverter for Essential & Sensitive Appliances






To avail warranty, contact us on

WhatsApp: +91 - 74281 91000 (automated service)
Phone: 1800 102 5551

This image emphasizes the 3-year long warranty provided with the Livguard inverter. It also provides contact details for warranty claims and support.

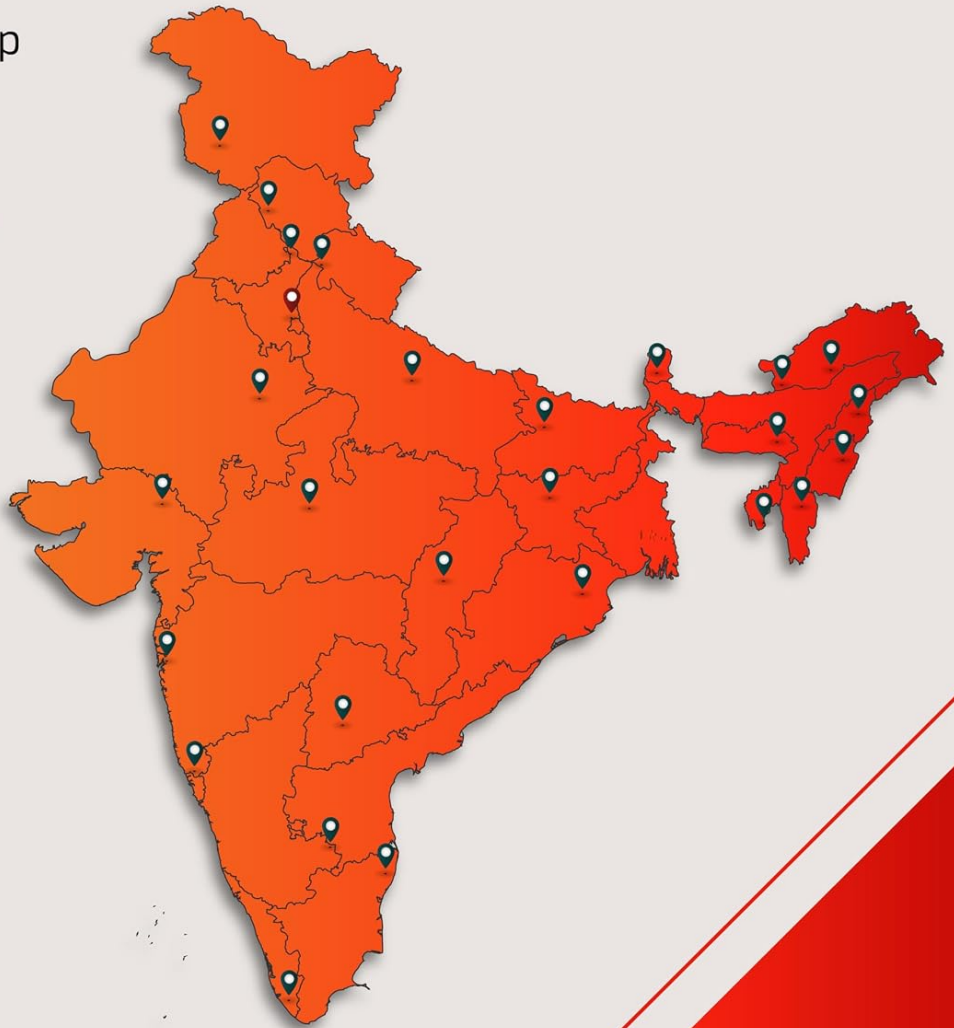
8.2 Installation and Service

Livguard offers 100% free doorstep installation service across its pan-India service network, which covers over 16,000 pin codes. A team of 750+ certified service engineers is available for support.

Pan India service network in 16,000+ pin codes

Livguard
INVERTER & BATTERIES

- 100% free doorstep installation service
- Homegrown team of 750+ certified service engineers



This map illustrates Livguard's extensive service network across India, covering over 16,000 pin codes. It highlights the availability of 100% free doorstep installation service and a team of over 750 certified service engineers.

8.3 Customer Support

For warranty claims, technical assistance, or any product-related queries, please contact Livguard customer support:

- **WhatsApp:** +91-74281 91000 (automated service)
- **Phone:** 1800 102 5551

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