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› [Livguard](#) /

› Livguard Inverter & Battery Combo LG1100_IT 1672TT User Manual

Livguard LG1100_IT 1672TT

Livguard Inverter & Battery Combo LG1100_IT 1672TT User Manual

Model: LG1100 (Inverter) & IT 1672TT (Battery)

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your Livguard Inverter & Battery Combo, model LG1100_IT 1672TT. This combo includes a 900 VA/12V Square Wave Inverter (LG1100) and a 160 Ah Tall Tubular Battery (IT 1672TT), designed to provide reliable power backup for various applications.

2. SAFETY INSTRUCTIONS

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

- **Qualified Personnel:** Installation and servicing should only be performed by qualified and authorized personnel.
- **Ventilation:** Ensure adequate ventilation around the inverter and battery to prevent overheating. Do not block ventilation openings.
- **Moisture Exposure:** Do not expose the unit to rain, water splashes, or excessive moisture.
- **Flammable Materials:** Keep flammable materials away from the inverter and battery.
- **Children:** Keep the inverter and battery out of reach of children.
- **Battery Handling:** Batteries contain corrosive acid. Avoid contact with skin and eyes. Wear protective gear during handling.
- **Electrical Connections:** Ensure all electrical connections are tight and secure to prevent arcing and overheating.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 1 x Livguard LG1100 Square Wave Inverter
- 1 x Livguard IT 1672TT 160 Ah Tall Tubular Single Battery
- 1 x Installation Kit
- 1 x User Manual (this document)

- 1 x Warranty Card
- Float Indicators (for battery water level)
- Petroleum Jelly
- Nut Bolt Set (for battery terminals)

4. SETUP AND INSTALLATION

The Livguard Inverter & Battery Combo requires professional installation to ensure proper functioning and safety. Livguard provides installation services for this product.

4.1 Installation Service

- Installation will be provided by Livguard within 72 hours of delivery.
- A nominal charge of INR 399 for installation is applicable after the service.
- Installation includes the setup and connection of the inverter with the battery.
- **Note:** Additional wiring or electrical socket installation is not included in the standard service.

4.2 Pre-Installation Checks

- Ensure the installation area is well-ventilated, dry, and away from direct sunlight or heat sources.
- Verify that the main power supply is switched off before any connections are made.
- Confirm the battery type and capacity are compatible with the inverter. The LG1100 inverter is compatible with 1 x 12V C20 batteries with capacities between 90 Ah and 260 Ah.

4.3 Battery Type Selection

The inverter features a 4-mode selector switch to optimize charging for various battery types:

- Flat Plate Battery
- Tubular Battery
- SMF (Sealed Maintenance Free) Battery
- LOCAL Battery

Ensure the correct battery type is selected on the inverter for optimal performance and battery life.

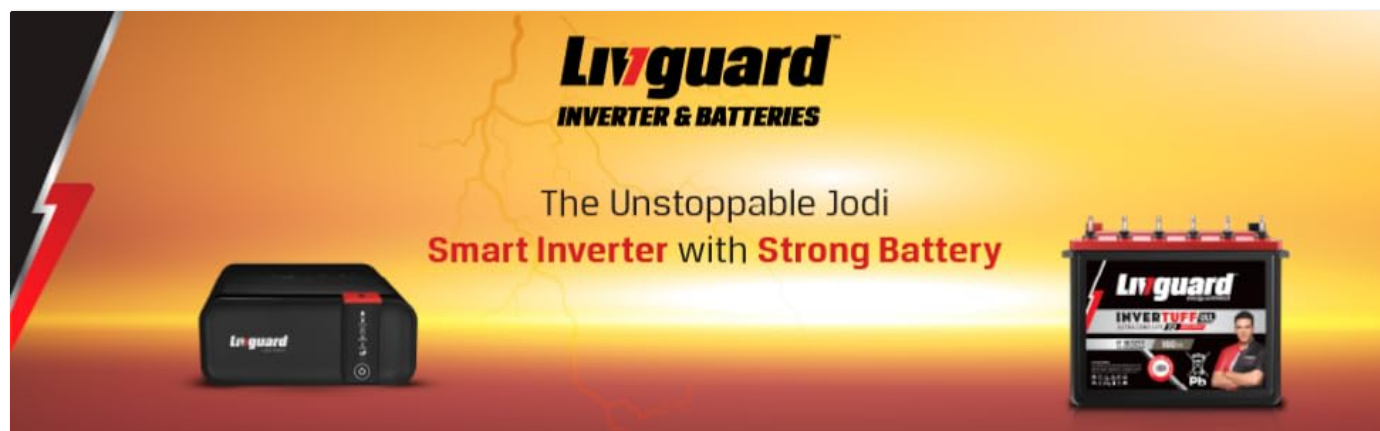


Image: Key features of the Livguard Inverter and Battery Combo, including LED display, UPS/ECO mode, and 4-type battery selector switch.

5. OPERATING INSTRUCTIONS

Once installed, the Livguard Inverter & Battery Combo operates automatically to provide uninterrupted power.

5.1 Power On/Off

- To power on the inverter, press the main power button. The LED display will illuminate.
- To power off, press and hold the main power button until the unit shuts down.

5.2 Dual Mode Support (UPS and ECO)

The LG1100 inverter offers two operational modes:

- **UPS Mode:** Provides a stable and consistent power supply, ideal for sensitive appliances like computers, laptops, and LED TVs, protecting them from voltage fluctuations.
- **ECO Mode:** Optimizes energy consumption, suitable for less sensitive appliances, by allowing a wider input voltage range before switching to battery power.

Refer to the inverter's display or controls to switch between these modes as needed.

5.3 Connected Load

The inverter is designed to support various household and office appliances, including:

- Ceiling Fans
- LED Bulbs and Tube Lights
- Room Coolers
- Laptops and Computers
- Wi-Fi Routers
- Set-Top Boxes
- LED Televisions
- Refrigerators

Ensure the total load does not exceed the inverter's peak load capacity of 780 Watts.



Image: Table illustrating approximate backup times for different battery capacities and load percentages with the LG1100 inverter.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Livguard Inverter & Battery Combo.

6.1 Battery Maintenance

- **Water Level Check:** The IT 1672TT battery is a tall tubular battery with 6 water level indicators. Regularly check the electrolyte levels and refill with distilled water if necessary. Do not overfill.
- **Terminal Cleaning:** Periodically inspect battery terminals for corrosion. Clean them with a wire brush if needed and apply petroleum jelly to prevent further corrosion.
- **Ventilation:** Ensure the battery area is well-ventilated to dissipate gases produced during charging.

6.2 Inverter Maintenance

- **Cleaning:** Keep the inverter free from dust and debris. Use a dry cloth to wipe the exterior. Do not use liquid cleaners.
- **Ventilation:** Ensure the inverter's cooling vents are unobstructed to allow proper airflow.
- **Connections:** Periodically check all cable connections to ensure they are secure.

7. TROUBLESHOOTING

If you encounter issues with your Livguard Inverter & Battery Combo, refer to the following common troubleshooting tips. For persistent problems, contact customer support.

- **Inverter Not Turning On:** Check the main power supply, ensure the battery is connected correctly, and verify the battery charge level.
- **No Power Output:** Check if the inverter is in bypass mode, if the output circuit breaker has tripped, or if the battery is discharged.
- **Appliances Making Unusual Noise:** This could indicate an issue with the inverter's output waveform or an overloaded

condition. Reduce the load or contact support.

- **Short Battery Backup Time:** Ensure the battery is fully charged, check battery water levels, and verify that the battery type selection on the inverter matches the installed battery. Overloading the inverter can also reduce backup time.
- **Inconsistent Voltage Supply:** Verify input voltage stability. If the issue persists, contact customer support.

8. SPECIFICATIONS

Component	Specification
Inverter Model	LG1100
Inverter Type	Square Wave
VA Rating	900 VA
System Voltage	12 V
Peak Load / Output Power	780 Watts
Frequency	50 Hz
Inverter Dimensions (L x W x H)	32.7 x 29.3 x 16.9 CM
Battery Model	IT 1672TT
Battery Type	Tall Tubular Single Battery
Battery Capacity	160 Ah
Battery Dimensions (L x W x H)	50.5 x 18.8 x 41 CM
Water Level Indicators	6
Recommended Uses	Home, Office

9. WARRANTY INFORMATION

Your Livguard Inverter & Battery Combo comes with a comprehensive warranty:

- **Inverter (LG1100):** 3 Years Warranty
- **Battery (IT 1672TT):** 72 Months Warranty (42 Months Flat + 30 Months Pro-rata)

Please retain your warranty card and proof of purchase for any warranty claims. For detailed terms and conditions, refer to the warranty card included in your package.

A **Trust-worthy Range** of
Inverters and **Batteries** for All Needs

2 Cr+ Happy Customers



Image: Visual representation of the 3-year inverter warranty and 6-year battery warranty.

10. CUSTOMER SUPPORT

For any queries, technical assistance, installation requests, or warranty claims, please contact Livguard customer support:

- **Toll-Free Customer Care:** 1800-1025-551
- **WhatsApp Support (Automated Service):** +91-74281 91000

Please have your product model number and purchase details ready when contacting support.

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Image: Map illustrating Livguard's extensive Pan India service network, highlighting widespread service availability.

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

