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› Livguard LGS900I Inverter and IT 1636STJ Battery Combo User Manual

Livguard LGS900I_IT 1636STJ

Livguard LGS900I Inverter and IT 1636STJ Battery Combo User Manual

Model: LGS900I_IT 1636STJ | Brand: Livguard

1. INTRODUCTION

This manual provides comprehensive instructions for the Livguard LGS900I Inverter and IT 1636STJ Battery Combo. This system is designed to provide a reliable and efficient power backup solution, ensuring an uninterrupted power supply for your home or office during outages. It combines a high-quality sine wave inverter with a powerful short tubular jumbo battery.

The inverter features a 700 VA/12V capacity with a 595W peak load, while the battery is a 160 Ah unit. The system is engineered for durability and ease of use, incorporating features like Artificial Intelligent Charging, UPS and ECO Mode Support, and a Four Type Battery Selector Switch.

2. SAFETY INSTRUCTIONS

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

- Always ensure the inverter and battery are installed in a well-ventilated area, away from direct sunlight, heat sources, and flammable materials.
- Do not expose the unit to rain, moisture, or excessive humidity.
- Ensure proper grounding of the inverter to prevent electrical hazards.
- Keep children and unauthorized personnel away from the inverter and battery.
- Do not open the inverter casing. There are no user-serviceable parts inside. Refer all servicing to qualified service personnel.
- Wear appropriate personal protective equipment (PPE), such as insulated gloves and eye protection, when handling the battery.
- Avoid short-circuiting the battery terminals.
- Disconnect the main power supply before performing any maintenance or connections.

3. PACKAGE CONTENTS

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

- 1 x Livguard LGS900I Sine Wave Inverter
- 1 x Livguard IT 1636STJ 160 Ah Short Tubular Jumbo Single Battery
- 1 x Instruction Manual (this document)
- 1 x Warranty Card
- Float Indicators (for battery water level)
- Petroleum Jelly (for battery terminals)
- Nut Bolt Set (for battery connections)

4. SETUP AND INSTALLATION

The Livguard Inverter and Battery Combo requires professional installation to ensure safe and correct operation. Livguard provides installation services for this product.

1. **Installation Request:** Contact Livguard customer support to schedule installation. Installation will be provided by the brand within 72 hours of delivery.
2. **Site Preparation:** Ensure the installation area is clean, dry, well-ventilated, and has a stable surface to support the weight of both the inverter and battery.
3. **Battery Placement:** Place the battery in its designated position, ensuring adequate space for ventilation and maintenance.
4. **Inverter Placement:** Position the inverter near the battery, ensuring all cables can reach without strain.
5. **Professional Connection:** A certified service engineer will connect the inverter to the battery using the provided cables and nut bolt set. They will also connect the inverter to your home's main power supply and output loads.
6. **Initial Check:** The engineer will perform an initial power-on test and verify all connections and functions.

Note: Installation is chargeable by the brand (INR 399) after completion. Additional wiring or electrical socket installation is not included in the standard service.

The Unstoppable Duo for **Ultimate Energy Efficiency**



**Artificial Intelligent
Charging**



Safety and Low Maintenance
with heat leak-proof PPCP plastic



**UPS and ECO
Mode Support**



Long Lasting Battery Life
with 3D grid & non-woven gauntlet



**Four Type Battery
Selector Switch**



Tuff Futuristic Design
that complements modern homes



Image: Livguard LGS900I Inverter and IT 1636STJ Battery Combo. This image shows the compact inverter unit alongside the robust short tubular battery, illustrating the complete power backup system.

5. OPERATING INSTRUCTIONS

Your Livguard Inverter is designed for user-friendly operation with intelligent features.

5.1 Inverter Modes

- **UPS Mode:** Provides a stable and uninterrupted power supply, ideal for sensitive appliances like computers, laptops, and LED TVs, protecting them from voltage fluctuations.
- **ECO Mode:** Optimizes power consumption for general household appliances, ensuring energy efficiency.

The inverter features a dual-mode support system, allowing you to select the appropriate mode based on your appliance requirements.

5.2 Battery Compatibility and Selector Switch

The inverter is compatible with 1 x (12V) C20 battery with a capacity between 90 Ah and 260 Ah. It includes a 4-mode selector switch to ensure optimal charging and performance with various battery types:

- Flat Plate Battery
- Tubular Battery
- SMF (Sealed Maintenance Free) Battery
- LOCAL (Other types of batteries)

Ensure the correct battery type is selected on the inverter for efficient charging and extended battery life.

5.3 Running Load Capacity

The system can reliably power common household and office appliances. Typical running loads include:

- Ceiling Fan
- LED Bulb
- LED Tube Light
- Room Cooler
- Laptop
- Computer
- WiFi Router
- Set Top Box
- LED TV
- Fridge (small to medium size)

Refer to the backup time table below for estimated backup durations based on load and battery capacity:

Experience Precise Power with the Right Combo

Combo	LGS900i IT 1636STJ	Number of Batteries	1
VA rating	700	Peak Load (in Watts)	595
Approx. Backup Time for X% load			
Battery (Ah)	50% Load	75% Load	100% Load
150 Ah	5.5 hr	5 hr	3.5 hr
160 Ah	5.5 hr	5 hr	3.5 hr
200 Ah	7.5 hr	7 hr	5 hr
220 Ah	8.5 hr	8 hr	6 hr

*Load will depend on the Inverter VA.
*This is applicable under test conditions.

Image: Livguard Inverter Backup Time Table. This table displays approximate backup times for the LGS900i inverter with different battery capacities (150 Ah, 160 Ah, 200 Ah, 220 Ah) at various load percentages (50%, 75%, 100%). The LGS900i has a VA rating of 700 and a peak load of 595 Watts.

6. MAINTENANCE

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

- **Battery Water Level:** The IT 1636STJ battery is equipped with 6 water level indicators. Regularly check these indicators and ensure the water level is maintained between the minimum and maximum marks. Use only distilled water for topping up.
- **Terminal Cleaning:** Periodically inspect battery terminals for corrosion. Clean them with a wire brush if necessary and apply a thin layer of petroleum jelly (included in the package) to prevent corrosion.
- **Ventilation:** Ensure that the area around the inverter and battery remains clear and well-ventilated to prevent overheating.
- **Dust Removal:** Keep the inverter free from dust and debris by gently wiping it with a dry cloth. Do not use liquid

cleaners directly on the inverter.

- **Load Management:** Avoid consistently overloading the inverter, as this can reduce its lifespan and efficiency.

7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Inverter not turning on	No main power supply; Battery discharged; Loose connections; Blown fuse	Check main power; Allow battery to charge; Verify all cable connections; Contact service for fuse replacement.
No backup power during outage	Battery not charged; Inverter in bypass mode; Overload	Ensure battery is charging when mains are present; Check inverter mode; Reduce connected load.
Overload alarm/indicator	Too many appliances connected	Disconnect some appliances to reduce the load below the inverter's capacity.
Battery not charging	Loose battery terminals; Incorrect battery type selection; Inverter fault	Tighten terminals; Select correct battery type using the switch; Contact customer support.
Unusual noise from inverter	Internal fan issue; Component fault	Ensure proper ventilation; If noise persists, contact customer support.

8. SPECIFICATIONS

Detailed technical specifications for the Livguard LGS900I Inverter and IT 1636STJ Battery Combo:

Feature	Specification
Brand	Livguard
Model Number	LGS900I_IT 1636STJ
Inverter Type	Sine Wave
Inverter Capacity	700 VA / 12 V
Inverter Peak Load	595 W
Battery Type	Short Tubular Jumbo
Battery Capacity	160 Ah
Input Voltage	12 Volts
Number of Items	2 (Inverter & Battery)
Inverter Dimensions (L x W x H)	36.1 x 34.5 x 17.7 CM
Battery Dimensions (L x W x H)	52 x 27.5 x 28.2 CM

Feature	Specification
Inverter Modes	UPS and ECO
Battery Selector Switch	4-mode (Flat Plate, Tubular, SMF, LOCAL)
Water Level Indicators	6

9. WARRANTY INFORMATION

Livguard provides comprehensive warranty coverage for your inverter and battery combo:

- **Inverter Warranty:** 36 Months
- **Battery Warranty:** 36 Months (18 Months Full Replacement + 18 Months Pro-rata Warranty)

Please retain your purchase invoice and warranty card for any warranty claims. The warranty covers manufacturing defects under normal operating conditions.

Smart Inverter + Strong Battery For Peace of Mind



To avail warranty, contact us on | **WhatsApp: +91 - 74281 91000 (automated service)**
Phone: 1800 102 5551

Image: Livguard 3 Year Warranty. This image highlights the 3-year long warranty provided for both the smart inverter and strong battery, ensuring peace of mind for the user.

10. CUSTOMER SUPPORT AND SERVICES

For any assistance, installation requests, or service inquiries, please contact Livguard customer support:

- **Customer Support Helpline:** 1800-1025-551
- **WhatsApp Service:** +91 - 74281 91000 (automated service)

Livguard offers a robust service network to ensure prompt support:

- Pan India service network covering over 16,000+ pin codes.
- 100% free doorstep installation service (installation charges apply as mentioned in Section 4).
- A dedicated team of 750+ certified service engineers.

Pan India service network in

16,000+ pin codes

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

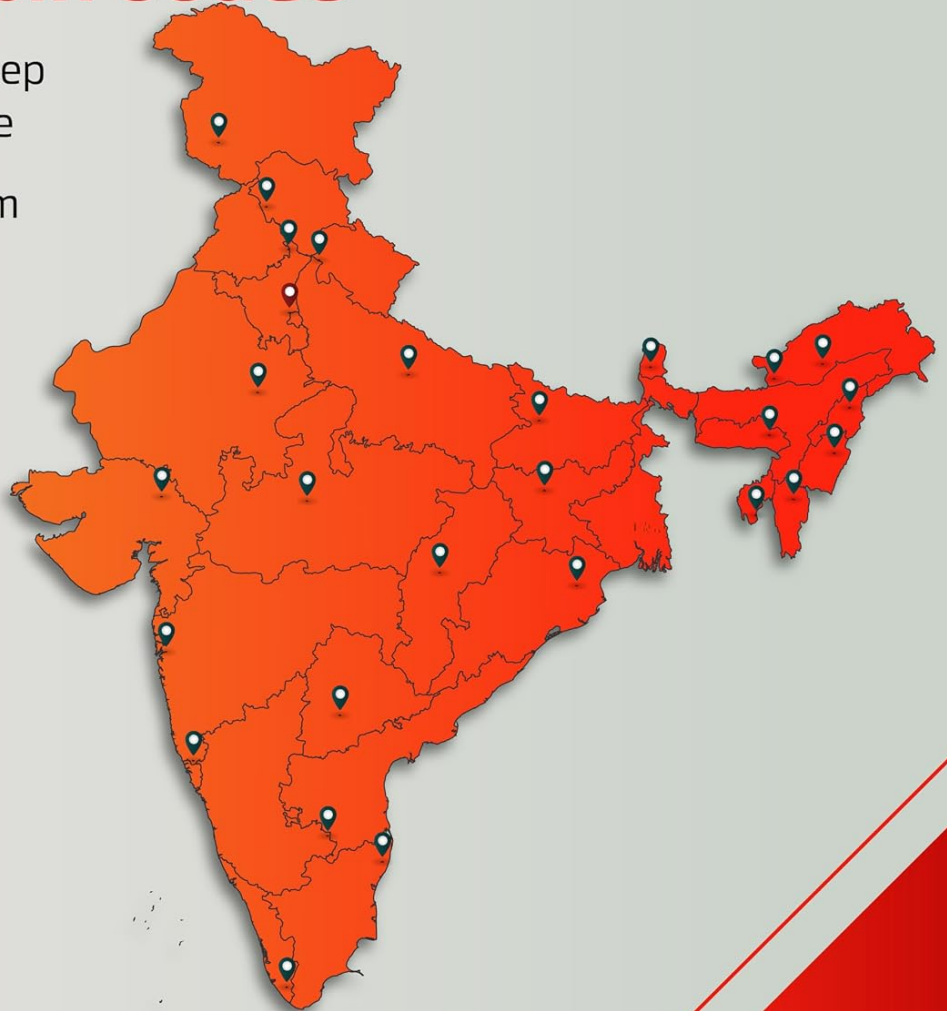


Image: Livguard Pan India Service Network. This map illustrates Livguard's extensive service presence across India, highlighting their commitment to widespread customer support.

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Question

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Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

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