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Livfast BT1175 LKVA

Livfast Bolt+ Square Wave Inverter BT1175 User Manual

Model: BT1175 LKVA

1. Introduction

This manual provides essential information for the safe and efficient operation of your Livfast Bolt+ Square Wave Inverter BT1175. Please read these instructions carefully before installation and use, and retain them for future reference. This inverter is designed to provide reliable power backup for homes and offices, featuring square wave technology and a 900VA capacity.



Image 1.1: Front view of the Livfast Bolt+ Square Wave Inverter BT1175.

2. Safety Information

Important Safety Instructions:

- Read all instructions before operating the inverter.
- Do not expose the inverter to rain or moisture.
- Ensure proper ventilation around the inverter to prevent overheating.
- Connect the inverter only to a properly grounded outlet.
- Do not open the inverter casing; there are no user-serviceable parts inside. Refer servicing to qualified personnel.

- Keep children away from the inverter during operation.
- Ensure correct battery polarity when connecting. Incorrect connection can damage the inverter and battery.
- Avoid overloading the inverter beyond its rated capacity (900VA / 792 Watts).

3. Package Contents

Upon unpacking, verify that the following items are included:

- 1 x Livfast Bolt+ Square Wave Inverter BT1175
- 1 x User Manual (this document)

If any items are missing or damaged, please contact Livfast customer support immediately.

4. Product Features

The Livfast Bolt+ Square Wave Inverter BT1175 offers several key features for reliable power backup:

- **12V Square Wave Inverter:** Provides consistent power output suitable for most household appliances.
- **900VA Capacity (792 Watts):** Capable of supporting common appliances such as LED TVs, fans, and lights.
- **Enhanced Safety:** Includes overload and short-circuit protection mechanisms to safeguard the inverter and connected devices.
- **Battery Compatibility:** Designed to work seamlessly with Livfast tubular batteries.
- **Space-Saving Design:** Compact dimensions (32.7L x 29.3W x 16.9H Centimeters) for easy placement.
- **Quick Start Feature:** Ensures immediate power supply resumption after a power cut.
- **High Efficiency:** Optimized for efficient power conversion.
- **Four Type Battery Selection Switch:** Allows selection for different battery types, including an additional mode for local batteries.
- **Faster Charging:** Charges batteries efficiently even at low voltage conditions.
- **Extra Load Handling Capacity:** Designed to manage varying load requirements effectively.



Image 4.1: Icon representing Square Wave Technology.



Image 4.2: Icon representing Efficient Power Backup.



Image 4.3: Overview of key inverter features including Pure Square Wave Technology and battery selection options.

5. Setup and Installation

Proper installation is crucial for the safe and optimal performance of your inverter. It is recommended that installation be performed by a qualified electrician.

1. **Location Selection:** Choose a dry, well-ventilated area away from direct sunlight, heat sources, and flammable materials. Ensure sufficient space for air circulation around the inverter.
2. **Battery Connection:**
    - Ensure the inverter is switched OFF before connecting the battery.
    - Connect the positive (+) terminal of the battery to the positive (+) terminal of the inverter.
    - Connect the negative (-) terminal of the battery to the negative (-) terminal of the inverter.
    - *Verify polarity carefully. Incorrect connection will damage the unit.*
3. **Mains Input Connection:** Plug the inverter's input power cord into a grounded AC wall outlet.
4. **Output Load Connection:** Connect your appliances to the output sockets of the inverter. Ensure the total load does not exceed 900VA (792 Watts).
5. **Battery Type Selection:** Use the battery type selection switch on the inverter to match the type of battery connected (e.g., Tubular, Flat Plate, SMF). Refer to the inverter's panel for specific settings.

6. Operating Instructions

Follow these steps to operate your Livfast Inverter:

1. **Power On:** After completing all connections, switch on the inverter using the main power switch. The inverter will perform a self-test.
2. **Mains Mode:** When grid power is available, the inverter will charge the connected battery and pass through AC power to your appliances.

3. **Backup Mode (Inverter Mode):** In the event of a power failure, the inverter will automatically switch to battery power, providing uninterrupted supply to connected appliances. The "Quick Start Feature" ensures immediate transition.
4. **Power Off:** To turn off the inverter, first switch off all connected appliances, then switch off the main power switch on the inverter.

Indicators: The inverter features LED indicators to display its operational status (e.g., Mains On, Battery Charging, Inverter On, Overload, Battery Low).

7. Maintenance

Regular maintenance ensures the longevity and optimal performance of your inverter:

- **Keep Clean:** Periodically clean the inverter's exterior with a dry cloth. Ensure ventilation openings are free from dust and obstructions.
- **Battery Maintenance:** If using a lead-acid battery, regularly check the electrolyte level and top up with distilled water as needed. Keep battery terminals clean and free from corrosion.
- **Ventilation:** Ensure the inverter is always placed in a well-ventilated area to prevent overheating.
- **Cable Inspection:** Periodically inspect all cables for any signs of damage or wear. Replace damaged cables immediately.
- **Avoid Overloading:** Do not connect appliances that exceed the inverter's rated capacity.

8. Troubleshooting

Refer to the table below for common issues and their solutions:

Problem	Possible Cause	Solution
Inverter not turning on	Main switch off, battery not connected, low battery voltage, faulty fuse.	Ensure main switch is ON. Check battery connections. Charge battery. Check and replace fuse if necessary (by qualified personnel).
No output power in backup mode	Battery low, overload, inverter fault.	Check battery charge level. Reduce connected load. Contact service center if fault persists.
Overload alarm	Too many appliances connected.	Disconnect some appliances to reduce the load below 900VA.
Battery not charging	Mains power off, loose connections, battery fault, inverter charging circuit fault.	Check mains power supply. Secure all connections. Test battery. Contact service center.
Unusual noise or smell	Internal fault, overheating.	Immediately switch off the inverter and disconnect from mains and battery. Contact service center.

For issues not listed above, or if solutions do not resolve the problem, please contact Livfast customer support.

9. Specifications

Specification	Value
Brand	Livfast
Model Name	BOLT+ BT1175 LKVA 12 V

Specification	Value
Model Number	BT1175 LKVA
Recommended Uses	Home
Power Source	Corded Electric
Wattage	792 Watts
Voltage	12 Volts
Electrical Output Waveform	Square Wave
Item Dimensions (L x W x H)	32.7L x 29.3W x 16.9H Centimeters
Item Weight	8.6 Kilograms
Colour	Black
Box Contents	1 Inverter

10. Warranty and Support

Warranty: The Livfast Bolt+ Square Wave Inverter BT1175 comes with a **36 Months Warranty** from the date of purchase. This warranty covers manufacturing defects under normal use conditions.



Image 10.1: Icon indicating a 36-month product warranty.

Customer Support: For technical assistance, warranty claims, or any other inquiries, please contact:
LIVFAST BATTERIES PRIVATE LIMITED
Plot No. 221, Udyog Vihar Phase I,
Gurgaon, Gurugram, Haryana, 122016
Contact No: 7428191000

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