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› Luminous Zolt 1700 Pure Sine Wave Inverter User Manual

Luminous Zolt 1700

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Model: Zolt 1700

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your Luminous Zolt 1700 Pure Sine Wave Inverter. Please read all instructions carefully before installation and use. This inverter is designed to provide reliable power backup for homes, offices, and shops, ensuring continuous power supply during outages.



Figure 1: Front view of the Luminous Zolt 1700 Inverter, showcasing its compact design and smart display.

2. PRODUCT FEATURES

- **Pure Sinewave Output:** Delivers clean power suitable for sensitive electronic appliances, ensuring their safety and longevity.
- **High Power Output:** 1500VA/24V capacity provides dependable power backup for various appliances.
- **Smart Display:** An intuitive LCD display provides real-time updates on battery status, load levels, charging time, and system health.
- **Intelligent DSP Processor:** Optimizes backup and battery charging based on load supply and requirements.
- **Bypass Switch:** Ensures direct power supply from mains to household in case of any system fault.
- **MCB Protection:** Integrated Miniature Circuit Breaker (MCB) for protection against faults and surges.
- **Safety Alarm:** Provides alerts for various conditions, enhancing appliance safety.
- **Easy Installation:** Designed for user-friendly setup.



Figure 2: Key features of the Luminous Zolt 1700 Inverter, including pure sine wave output and integrated protection mechanisms.

3. PRODUCT SPECIFICATIONS

Specification	Detail
Model Number	Zolt 1700
Brand	Luminous
Power Output (VA)	1500 VA
Rated Power (Watts)	1260 Watts
Power Source	Battery Powered
Battery Capacity (Recommended)	150 Amp Hours (Supports 2 batteries or 24V system)
Item Weight	15 kg 800 g

Item Dimensions (LxWxH)	27.9 x 24.9 x 12.7 Centimeters
Included Components	1 Inverter, Operating Manual
Country of Origin	India



Figure 3: The inverter's refined aesthetics and smart performance features.

4. SETUP

4.1 Unpacking and Inspection

Carefully unpack the inverter and inspect it for any signs of damage. Ensure all included components, as listed in the specifications, are present. Keep the packaging for future transport or service needs.

4.2 Placement

Place the inverter in a well-ventilated area, away from direct sunlight, moisture, and flammable materials. Ensure there is sufficient space around the unit for proper airflow. The inverter should be placed on a stable, flat surface.

4.3 Battery Connection

Connect the battery terminals to the inverter. Ensure correct polarity: connect the positive (+) terminal of the battery to the positive (+) terminal of the inverter, and the negative (-) terminal of the battery to the negative (-) terminal of the inverter. Incorrect connection can cause damage. This model supports a 24V battery system, typically requiring two 12V batteries connected in series.

4.4 Mains Connection

Plug the inverter's AC input cord into a properly grounded wall outlet. Ensure the mains supply is within the specified voltage range for the inverter.

4.5 Initial Power On

After connecting the battery and mains, switch on the inverter. The smart display will illuminate, indicating the system status. Allow the inverter to perform its self-test sequence.

Your browser does not support the video tag.

Video 1: Overview of the Luminous Zolt 1700 Inverter, demonstrating its features and connection points.

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Video 2: Detailed look at the Luminous Zolt 1700 Inverter's functionality and display indications.

5. OPERATION

5.1 Understanding the Smart Display

The smart display provides critical information about the inverter's status:

- **Back-up Time:** Shows the estimated remaining backup time.
- **Charging Time:** Displays the time required for the battery to fully charge.
- **Main On/Off:** Indicates whether the inverter is running on mains power or battery power.
- **System Fault:** Alerts to any internal system errors.
- **Battery Water Level:** Reminder for checking battery water levels (for compatible batteries).

5.2 ECO/UPS Mode Selection

The inverter typically offers two modes:

- **UPS Mode:** Provides a stable output voltage, ideal for sensitive electronics like computers.
- **ECO Mode:** Offers a wider input voltage range, reducing battery usage and saving energy.

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

5.3 Battery Type Selection

The inverter supports various battery types (Flat Plate, Tubular, VRLA/SMF). Ensure the correct battery type is selected on the inverter to optimize charging and prolong battery life. This setting is usually accessible via a switch or button on the unit.

5.4 Bypass Switch

In case of an inverter fault or if you wish to bypass the inverter and run appliances directly on mains power, use the bypass switch located on the rear panel. This allows for continuous power supply even if the inverter is not functioning.

6. MAINTENANCE

6.1 Battery Water Level Check

For lead-acid batteries (Tubular, Flat Plate), regularly check the battery water level. The smart display provides a reminder. Refill with distilled water if levels are low. Do not overfill.

6.2 Cleaning

Keep the inverter clean and free from dust. Use a dry cloth to wipe the exterior. Ensure ventilation openings are not blocked to prevent overheating.

6.3 Ventilation

Maintain adequate ventilation around the inverter. Overheating can reduce efficiency and lifespan. Do not place anything on top of the inverter that could obstruct airflow.

7. TROUBLESHOOTING

If you encounter issues with your Luminous Zolt 1700 Inverter, refer to the following common indicators and solutions:

Indicator/Symptom	Possible Cause	Action
Fault Indicator on display	Internal system error, overload, or short circuit.	Reduce load, check for short circuits in connected appliances. If the issue persists, contact customer support.
Low Battery Indicator on display	Battery charge is low.	Ensure mains power is available and the inverter is in charging mode. Check battery connections.
MCB Trip Indicator on display (or MCB switch is down)	Overload or short circuit detected by the MCB.	Disconnect some appliances, check for short circuits, then reset the MCB.
No power output	Inverter off, battery discharged, or mains not connected.	Check power switch, mains connection, and battery charge level.



Figure 4: The inverter's protection features for fast charging and lasting power.

8. WARRANTY AND SUPPORT

Your Luminous Zolt 1700 Pure Sine Wave Inverter comes with a**36-month warranty**, ensuring peace of mind

and continuous support. For any technical assistance, service requests, or warranty claims, please contact Luminous customer support. Refer to the contact details provided in your product packaging or visit the official Luminous website for the nearest service center.

SERVICE THAT STAYS BY YOUR SIDE



Assistance Anywhere You Go



24/7 Support



On-Site Service



Figure 5: Luminous offers widespread service and support for its products.