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› Luminous Power Sine 800 Pure Sine Wave Inverter & RC15000PRO 120Ah Battery Combo User Manual

Luminous Power sine 800+RC15000

Luminous Power Sine 800 Pure Sine Wave Inverter & RC15000PRO 120Ah Battery Combo User Manual

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your Luminous Power Sine 800 Pure Sine Wave Inverter and RC15000PRO 120Ah Tubular Battery Combo. This system is designed to provide reliable power backup for homes, offices, and shops, ensuring uninterrupted electricity during outages. Please read these instructions carefully before installation and use.



Image 1.1: Luminous Power Sine 800 Inverter and RC15000PRO Battery Combo.

2. KEY FEATURES

- **Pure Sine Wave Output:** The Power Sine 800 Inverter delivers clean and stable power (700 VA / 560 W), suitable for sensitive electronics like TVs, PCs, and routers.
- **Powerful Tubular Battery:** The RC15000PRO 120Ah battery offers long-lasting backup with deep discharge capability and enhanced durability.
- **Extended Backup Time:** Provides approximately 10–12 hours for 2 fans + 2 LED lights, or 3–4 hours for 2 fans + 2 bulbs + TV.
- **Smart Three-Stage Charging:** Enhances battery longevity and performance by optimizing the charging process.
- **Battery Trolley:** Includes a battery trolley for optimal fit and ease of movement.
- **Puncture-Resistant Separator:** The battery features a puncture-resistant polyethylene separator to minimize the risk of internal short circuits.
- **Strong Sealed Plastic Cover:** Ensures durability and reliable power delivery.
- **Supports All Battery Types:** The inverter is compatible with various battery types for flexible integration.
- **Eco Mode:** Optimizes energy efficiency by intelligently adjusting power consumption.



Image 2.1: Visual representation of Pure Sine Wave output and Smart Charging capabilities.

3. SETUP

3.1 Unpacking

Carefully unpack all components from the packaging. Ensure the following items are present:

- Luminous Power Sine 800 Pure Sine Wave Inverter
- Luminous RC15000PRO 120Ah Short Tubular Battery
- Instruction Manual
- Warranty Card
- Battery Trolley (if included in your package)

3.2 Placement

Choose a well-ventilated, dry, and cool location for the inverter and battery. Avoid direct sunlight, heat sources, and areas with excessive dust or moisture. Ensure sufficient clearance around the unit for proper airflow. The battery should be placed on the provided trolley or a stable, level surface.



Image 3.1: Side view of the Luminous Inverter and Battery, illustrating space requirements for placement.

3.3 Battery Connection

1. Ensure the inverter is switched OFF and disconnected from the main power supply.
2. Connect the red (positive) cable from the inverter to the positive (+) terminal of the battery. Tighten the connection securely.
3. Connect the black (negative) cable from the inverter to the negative (-) terminal of the battery. Tighten the connection securely.
4. Double-check all connections to ensure they are firm and correct. Incorrect polarity can damage the system.

3.4 Inverter Connection to Mains

1. Plug the inverter's input power cord into a properly grounded wall outlet.
2. Connect your appliances (fans, lights, TV, etc.) to the output sockets of the inverter.

3.5 Initial Charging

After connecting the battery and mains, switch ON the inverter. Allow the battery to charge fully before using it for backup. The inverter's display or indicators will show the charging status.

4. OPERATING INSTRUCTIONS

4.1 Power On/Off

- **To Power On:** Press and hold the power button on the inverter until the indicators light up.
- **To Power Off:** Press and hold the power button again until the indicators turn off.

4.2 Eco Mode

The Eco Mode is designed to optimize energy efficiency. When activated, the inverter intelligently adjusts power consumption, reducing environmental impact and operational costs. This mode is ideal for situations where power saving is a priority and sensitive appliances are not in use.

4.3 UPS Mode

The UPS (Uninterruptible Power Supply) mode provides continuous power to connected appliances without any break during power outages. This mode is recommended for sensitive electronic devices like computers, medical equipment, and routers, where even a momentary power interruption can cause data loss or damage.

4.4 Indicators and Display

The inverter features various LED indicators or a digital display to show its operational status:

- **Mains ON:** Indicates that the inverter is receiving power from the main electricity supply.
- **Charging:** Indicates that the battery is currently being charged.
- **UPS ON/Inverter ON:** Indicates that the inverter is providing power to the connected appliances.
- **Low Battery:** Warns that the battery charge is low and requires recharging.
- **Overload:** Indicates that the connected load exceeds the inverter's capacity. Reduce the load immediately.
- **Fault/Error:** Indicates a system error. Refer to the troubleshooting section.

PRECISION POWER FOR DELICATE DEVICES



**Pure Sine
Wave**



**Safe for
Appliances**

Image 4.1: The Luminous Inverter's front panel with indicators for Mains, Charging, Eco, Low Battery, and Overload.

5. MAINTENANCE

5.1 Battery Maintenance

- **Water Level Check:** For tubular batteries, regularly check the electrolyte level. If it falls below the minimum mark, top up with distilled water only. Do not use tap water.
- **Terminal Cleaning:** Keep battery terminals clean and free from corrosion. Apply petroleum jelly to the terminals to prevent corrosion.
- **Ventilation:** Ensure the battery area is well-ventilated to dissipate gases produced during charging.
- **Regular Charging:** Even if not in use, ensure the battery is charged periodically to maintain its health and prolong its lifespan.

5.2 Inverter Care

- **Cleaning:** Keep the inverter clean and free from dust. Use a dry cloth to wipe the exterior. Do not use liquid cleaners.
- **Ventilation:** Ensure the inverter's ventilation openings are not blocked to prevent overheating.
- **Avoid Overloading:** Do not connect appliances that exceed the inverter's rated capacity to prevent damage.

5.3 Safety Precautions

- Do not open the inverter casing. There are no user-serviceable parts inside.
- Keep children and pets away from the inverter and battery.
- Avoid contact with battery acid. In case of contact, rinse immediately with plenty of water and seek medical attention.
- Ensure proper grounding for both the inverter and the electrical system.

6. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Inverter not turning ON	No mains power, loose battery connection, discharged battery.	Check mains supply, ensure battery terminals are tight, charge battery.
No output from inverter	Overload, low battery, inverter in fault mode.	Reduce connected load, allow battery to charge, check fault indicators.
Battery not charging	Mains power off, loose connections, battery fault.	Check mains, tighten connections, contact service if battery is faulty.
Short backup time	Battery not fully charged, old battery, high load.	Ensure full charge, consider battery replacement if old, reduce load.

7. SPECIFICATIONS

Feature	Detail
Brand	Luminous
Inverter Model	Power Sine 800
Battery Model	RC15000PRO
Inverter Capacity	700 VA / 560 W
Battery Capacity	120 Ah
Output Waveform	Pure Sine Wave
Voltage	12 Volts (System)
Frequency	50 Hz
Recommended Uses	Home, Office, Shops
Battery Type	Short Tubular
Charging Technology	Three-Stage Smart Charging
Eco Mode	Yes
Battery Trolley	Included



Image 7.1: Buying guide illustrating typical backup times and capacities for various home sizes and appliance types.

8. WARRANTY AND SUPPORT

Your Luminous Inverter & Battery Combo comes with comprehensive warranty coverage:

- **Inverter Warranty:** 36 Months
- **Battery Warranty:** 48 Months (24 months flat replacement + 24 months pro-rata)

For any technical assistance, installation support, or warranty claims, please contact Luminous customer care. Refer to the warranty card included in your package for specific contact details and terms.

8.1 Official Product Video

Your browser does not support the video tag.

Video 8.1: An overview of the Luminous Inverter and Battery Combo, highlighting its features such as flat tubular battery design, 120Ah capacity, 560W wattage, pure sine wave output, smart three-stage charging, battery trolley, puncture-resistant separator, strong sealed plastic cover, support for all battery types, and Eco mode for energy efficiency.

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