

MICROTEK SW-Luxe-1400

Microtek Luxe 1400 Pure Sine Wave Inverter User Manual

Model: SW-Luxe-1400

1. PRODUCT OVERVIEW

The Microtek Luxe 1400 is a Pure Sine Wave Inverter designed to provide reliable power backup for homes, offices, and shops. With a VA rating of 1100VA and 825W, it supports a maximum peak load of 560 watts. This inverter is engineered for various power cut scenarios, offering high charge acceptance and requiring low maintenance. It features an intelligent LCD display for real-time status monitoring and multiple protection mechanisms to safeguard your appliances.



Figure 1: Microtek Luxe 1400 Inverter with its intelligent LCD display and safety features.

2. SETUP AND INSTALLATION

2.1 Battery Compatibility

The Microtek Luxe 1400 is compatible with a single 12V battery with a capacity ranging between 100 Ah and 200 Ah. It supports various battery types, including Flat Plate, Tubular, and SMF (Sealed Maintenance Free) batteries. The battery must be purchased separately.



Figure 2: Inverter shown with compatible battery types.

2.2 Connection Steps

1. **Placement:** Place the inverter in a well-ventilated area, away from direct sunlight, moisture, and flammable materials. Ensure it is on a stable, flat surface.
2. **Battery Connection:** 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. Ensure connections are tight and secure.
3. **AC Input:** Plug the inverter's AC input cord into a properly grounded wall outlet.
4. **Load Connection:** Connect your appliances to the output sockets of the inverter.
5. **Power On:** Press the power button on the inverter to turn it on.

Note: Installation does not include accessories such as wires, lugs, plugs, sockets, flexible pipes, clips, 2 MCBs, earthing, and battery stand. These must be provided by the customer if required.

3. OPERATING INSTRUCTIONS

3.1 Digital LCD Display

The inverter features a digital LCD display that provides crucial information about its operational status. This includes:

- **Power Backup Time:** Displays the estimated remaining backup time in hours and minutes.
- **Battery Charging Time:** Shows the estimated time required for the battery to fully charge.

- **Running Load Status:** Indicates the current load on the inverter, often in percentage.
- **Safety Alerts:** Provides visual and audible alerts (via buzzer) for conditions such as Overload, Over Temperature, Short Circuit, and Trip in the circuit.



Figure 3: Detailed view of the LCD display providing operational status.

3.2 Operating Modes and Charging

The inverter offers flexible operating and charging modes:

- **UPS Mode:** Provides uninterrupted power supply, ideal for sensitive electronics like computers, ensuring no power interruption during switchover.
- **Inverter Mode:** Standard power backup mode for general household appliances.
- **High/Standard Charging Current:** Allows selection between high (fast) and standard charging currents, suitable for different battery types and charging needs.
- **High/Standard Charging Voltage:** Adjustable charging voltage settings for optimal charging of various battery types (e.g., Tall Tubular, Flat Plate, Local Battery).

Video 1: An overview of the Microtek Luxe 1400 Inverter's features, including its intelligent display, various operating modes, and protection mechanisms.

4. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your Microtek Luxe 1400 Inverter and connected battery.

- Keep Clean:** Regularly clean the inverter's exterior with a dry cloth. Ensure ventilation openings are free from dust and obstructions.
- Battery Terminals:** Periodically check battery terminals for corrosion. Clean them with a wire brush and apply petroleum jelly if necessary to prevent corrosion.
- Water Levels (for non-SMF batteries):** If using a non-SMF battery, check the electrolyte levels regularly and top up with distilled water as needed.
- Ventilation:** Ensure the inverter is always placed in a well-ventilated area to prevent overheating.
- Avoid Overloading:** Do not connect appliances that exceed the inverter's maximum load capacity (560W).

5. TROUBLESHOOTING

This section addresses common issues you might encounter with your inverter. For more complex problems, contact customer support.

Problem	Possible Cause	Solution
Inverter not turning on	No AC input, discharged battery, loose connections.	Check AC input power, ensure battery is charged, verify all connections are secure.
Overload alert	Too many appliances connected.	Reduce the number of connected appliances. Press the "Output Press to Restart" button if available.
Short Circuit alert	Faulty appliance or wiring.	Disconnect all appliances and check for faulty wiring. Reconnect one by one to identify the problematic appliance.
Over Temperature alert	Poor ventilation, high ambient temperature.	Ensure adequate ventilation around the inverter. Move to a cooler location if possible.
Low backup time	Battery aging, high load, insufficient charging.	Check battery health, reduce load, ensure proper charging settings are selected.

6. SPECIFICATIONS

Feature	Detail
Model Number	SW-Luxe-1400
Inverter Type	Pure Sine Wave
VA Rating	1100VA
Wattage	825W
Max. Peak Load	560 watts

Feature	Detail
Battery Compatibility	1 x 12V battery (100 Ah - 200 Ah), Flat Plate, Tubular, SMF
Display	Digital LED display for status of Power back-up/battery charging time
Item Dimensions (LxWxH)	38.2 x 33.9 x 19.3 Centimeters
Item Weight	9 kg 630 g
Included Components	INVERTER
Country of Origin	India

7. WARRANTY AND SUPPORT

7.1 Warranty Information

The Microtek Luxe 1400 Inverter comes with a **2-year warranty**. For detailed terms and conditions of the warranty, please refer to the warranty card supplied along with the product. Warranty registration may be required at the time of purchase.

7.2 Customer Support

For any assistance, queries, or service requests, please contact Microtek customer support:

- **Contact Number:** +91-7283838383
- **Email:** cc@microtek.in
- **Manufacturer:** Microtek International Pvt. Ltd.
- **Address:** H-57, Udyog Nagar, Rohtak Road, India

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INTELLIGENT UPS WITH LOAD SENSING CAPABILITY

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- UPS & INVERTER MODE
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150 Ah / 54 Months Warranty
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For best performance use Microtek Battery with Microtek Inverter

Figure 4: Microtek customer support details and services.

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