

[Manuals.plus](#) /

› [Livguard](#) /

› Livguard SMART SINE 1100i Inverter User Manual

Livguard SMART SINE 1100i

Livguard SMART SINE 1100i Inverter User Manual

Model: SMART SINE 1100i | Brand: Livguard

1. INTRODUCTION AND OVERVIEW

This manual provides essential information for the safe and efficient operation of your Livguard SMART SINE 1100i Inverter. This 900VA/12V pure sinewave inverter is designed to provide reliable backup power for homes and offices, supporting a single inverter battery. It features a multi-function LCD display, WiFi connectivity, and mobile app control for enhanced convenience.



Image 1.1: The Livguard SMART SINE 1100i Inverter, designed to provide uninterrupted power during outages.

2. KEY FEATURES

The Livguard SMART SINE 1100i Inverter incorporates advanced technology for optimal performance and user experience:

- **Smart WiFi Connectivity:** Control your inverter remotely via a dedicated mobile application.
- **User-Friendly LCD Display:** Provides real-time updates on power-cut predictions, battery status, running load, and backup time.
- **AI Charging Technology:** Adapts charging based on battery health and type, preventing overcharging and extending battery life with a 22 Amp charging current.
- **High Load Capacity:** 900VA capacity with a peak load of 765 watts, suitable for various home and office appliances.
- **Pure Sine Wave Output:** Ensures safe operation for sensitive electronic devices.
- **Smart Power Cut Predictor & Backup Time Indicator:** Estimates daily power cuts and displays remaining backup time.
- **Reliable & Durable:** Built with overload protection and backed by a 36-month warranty.
- **Single Inverter Battery Support:** Compatible with one 12V C20 Inverter battery (90 Ah to 220 Ah).



Image 2.1: Illustration of the inverter's smart Wi-Fi connectivity and mobile application interface.



Image 2.2: Icon representing the Artificial Intelligent (AI) Charging Technology.

3. SETUP AND INSTALLATION

Proper installation is crucial for the inverter's performance and safety. Please follow these general guidelines:

1. **Placement:** Position the inverter in a well-ventilated, dry area, away from direct sunlight, heat sources, and flammable materials. Ensure adequate space around the unit for air circulation.
2. **Battery Connection:** Connect a single 12V C20 inverter battery (90 Ah to 220 Ah) 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. Use appropriate gauge cables.
3. **Mains Power Connection:** Plug the inverter's input power cord into a grounded AC wall outlet.
4. **Load Connection:** Connect your appliances to the inverter's output sockets. Do not overload the inverter beyond its 765 watts peak load capacity.
5. **Initial Charge:** Allow the battery to charge fully before its first use.

Safety Warning: Always consult a qualified electrician for installation if you are unsure. Ensure all connections are secure before powering on the unit.

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Image 3.1: The Livguard SMART SINE 1100i Inverter integrated into a typical home setup.

4. OPERATION

The inverter is designed for user-friendly operation. Refer to the LCD display for real-time status updates.

4.1 Powering On/Off

- To power on, press and hold the power button until the LCD illuminates.
- To power off, press and hold the power button until the LCD turns off.

4.2 LCD Display Functions

The multi-function LCD display provides critical information:

- **Battery Status:** Shows the current charge level of the connected battery.
- **Running Load:** Indicates the percentage of load currently being drawn from the inverter.
- **Backup Time:** Estimates the remaining backup time based on the current load and battery charge.
- **Power-Cut Predictions:** Provides predictions for power outages based on historical data.
- **Operating Mode:** Displays whether the inverter is in UPS mode or Eco mode.

4.3 Operating Modes

- **UPS Mode:** Provides uninterrupted power supply with minimal transfer time, ideal for sensitive electronics like computers.
- **Eco Mode:** Optimizes energy consumption by allowing a slightly longer transfer time, suitable for less sensitive appliances.



Image 4.1: Close-up of the inverter's user-friendly LCD display showing various operational parameters.

5. MOBILE APP CONTROL (WiFi CONNECTIVITY)

The Livguard SMART SINE 1100i Inverter can be controlled and monitored remotely using the Livguard Smartverter mobile application.

5.1 Connecting to WiFi

1. Download the "Livguard Smartverter" app from your mobile device's app store.
2. Ensure your inverter is powered on and within range of your WiFi network.
3. Follow the in-app instructions to connect your inverter to your home or office WiFi network. This typically involves entering your WiFi credentials.

5.2 App Features

Through the mobile app, you can:

- Monitor real-time battery status and charge level.
- View current load and estimated backup time.
- Receive power-cut predictions and notifications.
- Switch between UPS and Eco modes.
- Access historical data and performance reports.



Image 5.1: Icon depicting home connectivity with the inverter via WiFi.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your inverter and battery.

- **Keep Clean:** Periodically clean the inverter's exterior with a dry cloth. Ensure ventilation openings are free from dust and obstructions.
- **Battery Check:** For lead-acid batteries, regularly check electrolyte levels and top up with distilled water if necessary. Keep battery terminals clean and free from corrosion.
- **Ventilation:** Ensure the inverter is always in a well-ventilated area to prevent overheating.
- **Avoid Overloading:** Do not connect appliances that exceed the inverter's rated capacity (765 watts peak load).
- **AI Charging:** The built-in AI charging technology helps maintain battery health, but periodic manual checks are still recommended.

7. TROUBLESHOOTING

If you encounter issues with your Livguard SMART SINE 1100i Inverter, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Inverter not turning on	No mains power; loose battery connection; discharged battery.	Check mains power supply; ensure battery terminals are securely connected; allow battery to charge.
No output power	Overload; battery discharged; inverter fault.	Reduce connected load; check battery charge; contact customer support if fault persists.
Battery not charging	Mains power off; loose connections; battery fault; inverter charging circuit fault.	Verify mains power; check all connections; inspect battery for damage; contact customer support.
Mobile app connectivity issues	Weak WiFi signal; incorrect WiFi credentials; app glitch.	Ensure strong WiFi signal; re-enter WiFi credentials in app; restart app or mobile device.
Overload warning on LCD	Too many appliances connected.	Immediately disconnect some appliances to reduce the load.

If the problem persists after attempting these solutions, please contact Livguard customer support.



Image 7.1: Icon indicating the inverter's overload protection feature.

8. SPECIFICATIONS

Detailed technical specifications for the Livguard SMART SINE 1100i Inverter:

Specification	Value
Model Number	SMART SINE 1100i
Manufacturer	Livguard
Country of Origin	India
Power Source	Battery Powered
Output Waveform	Pure Sinewave
VA Rating	900VA

Specification	Value
Wattage (Peak Load)	765 Watts
Battery Voltage	12V
Supported Battery Type	1 x 12V C20 Inverter Battery (90 Ah to 220 Ah)
Charging Current	22 Amp (AI Charging Technology)
Connectivity	WiFi, Mobile App Control
Item Weight	10 kg 300 g
Item Dimensions (LxWxH)	36.1 x 34.5 x 17.7 Centimeters

9. PRODUCT OVERVIEW VIDEO

Watch this official product video for a visual overview of the Livguard SMART SINE 1100i Inverter's features and benefits.

Video 9.1: Official product overview of the Livguard SMART SINE 1100i Inverter, highlighting its smart features and applications.

10. WARRANTY AND SUPPORT

Your Livguard SMART SINE 1100i Inverter comes with a **36-month warranty**, ensuring peace of mind regarding its reliability and durability. For any technical assistance, warranty claims, or further inquiries, please contact Livguard customer support through their official channels. Refer to your product packaging or the Livguard website for specific contact details.