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› V-Guard Smart Pro 1200 Pure Sine Wave IoT Inverter User Manual

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Model: Smart Pro 1200

1. INTRODUCTION

The V-Guard Smart Pro 1200 is a Pure Sine Wave IoT Inverter designed to provide reliable power backup for homes and offices. This inverter features a 1000VA capacity, supporting a single 12V battery, and offers a maximum peak load of 780 Watts. It incorporates IoT capabilities with Bluetooth connectivity, allowing users to monitor and control the inverter via a smartphone application. This manual provides essential information for the safe and efficient installation, operation, and maintenance of your V-Guard Smart Pro 1200 inverter.



Figure 1: Front view of the V-Guard Smart Pro 1200 IoT Inverter. This image displays the front panel of the V-Guard Smart Pro 1200 inverter, featuring the V-Guard logo, LED indicators, and the power button.

2. SAFETY INSTRUCTIONS

Read all instructions carefully before installation and operation. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Ensure the inverter is installed in a well-ventilated area, away from direct sunlight, heat sources, and flammable materials.
- Do not expose the inverter to rain, moisture, or excessive dust.
- Ensure proper grounding of the inverter.
- Only qualified personnel should perform installation and servicing.
- Keep children and unauthorized persons away from the inverter and battery.
- Do not connect non-compatible batteries or attempt to reverse battery polarity.
- Disconnect the mains power supply before performing any maintenance or connections.

- The inverter contains high voltage components; do not open the casing unless instructed by a service professional.

3. PRODUCT FEATURES

The V-Guard Smart Pro 1200 inverter offers advanced features for efficient power management:

- **Pure Sine Wave Output:** Provides clean power suitable for sensitive electronic appliances.
- **IoT Enabled with Bluetooth Connectivity:** Monitor and control your inverter via a dedicated smartphone app.
- **Graphical LED Display Panel:** Instant visual and audio alerts for operational status.
- **Multiple Battery Type Support:** Compatible with Tubular, SMF, and Flat Plate batteries.
- **Turbo Charge:** Enables up to 30% faster battery charging.
- **Holiday Mode:** Optimizes power consumption when you are away.
- **User Selectable Output & Backup:** Customize inverter performance based on your needs.
- **Water Topping Reminder:** App-based reminder for battery maintenance (for tubular batteries).
- **No Fuse Replacement Required:** Features a Mains Circuit Breaker (RCB) for protection.



Figure 2: Inverter dimensions and compatible appliances. This image shows the V-Guard Smart Pro 1200 inverter with its physical dimensions (275mm L x 250mm D x 120mm H) and icons representing compatible home appliances such as fans, TVs, bulbs, coolers, refrigerators, and mixer grinders.

4. PACKAGE CONTENTS

Verify that all items are present in the package:

- V-Guard Smart Pro 1200 IoT Sine Wave Inverter Unit
- User Manual
- Warranty Card

5. INSTALLATION & SETUP

Follow these steps for proper installation of your inverter:

5.1 Site Selection

- Choose a cool, dry, and well-ventilated location.
- Ensure sufficient clearance around the inverter for airflow.
- Avoid areas with direct sunlight, high humidity, or corrosive gases.
- Place the inverter on a flat, stable surface.

5.2 Battery Connection

The Smart Pro 1200 supports a single 12V battery. Ensure the battery is of the recommended type (Tall Tubular Plate, SMF, or Flat Plate) and capacity (e.g., 150Ah).

1. Ensure the inverter is switched OFF and disconnected from the mains power supply.
2. Connect the red (positive, +) cable from the inverter to the positive terminal of the battery.
3. Connect the black (negative, -) cable from the inverter to the negative terminal of the battery.
4. Ensure all connections are tight and secure. Incorrect polarity can damage the inverter and battery.

5.3 Mains & Load Connection

1. Connect the inverter's AC input cable to a grounded wall socket.
2. Plug your appliances (load) into the UPS output socket on the rear panel of the inverter.

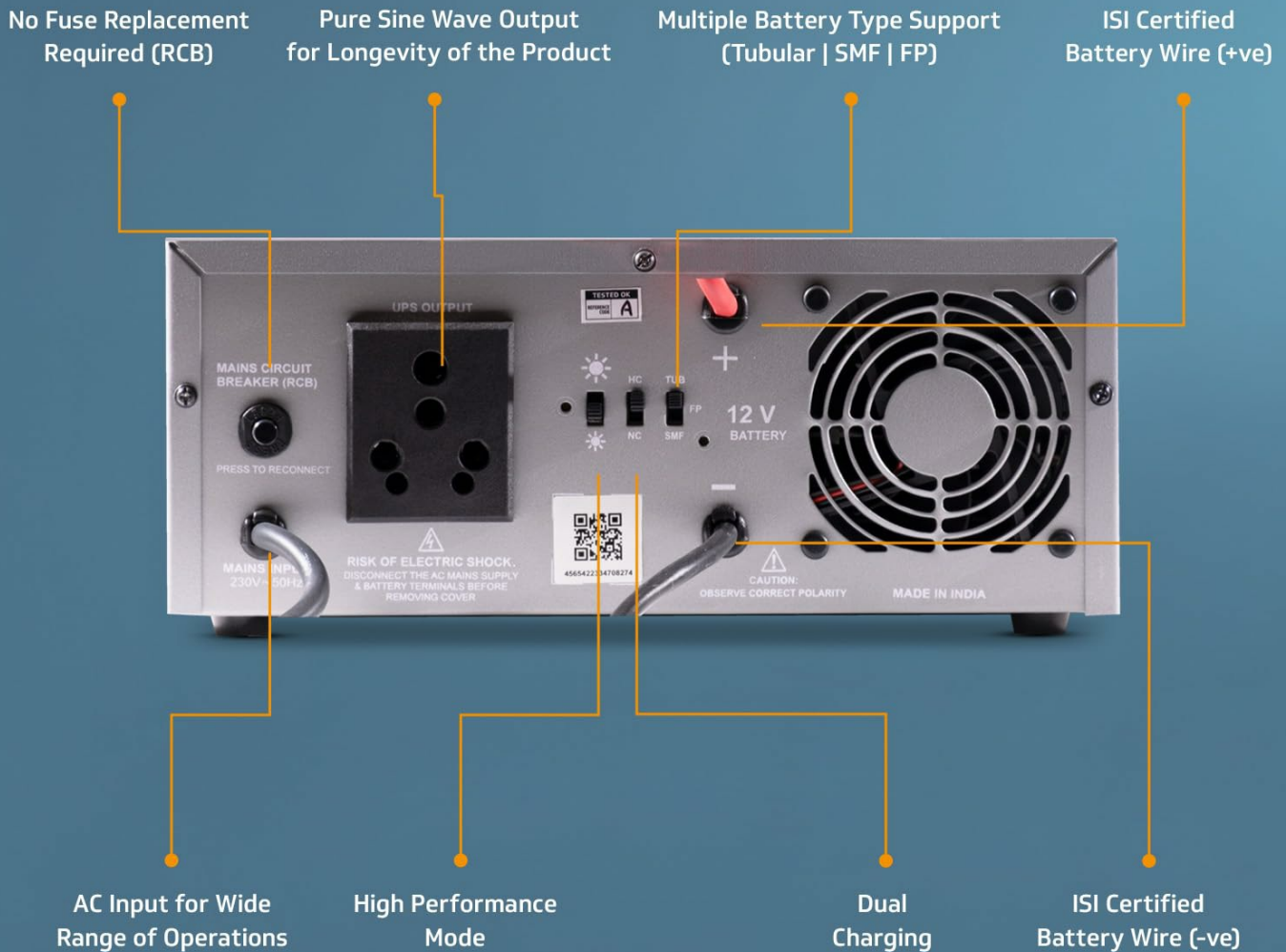


Figure 3: Rear panel connections. This image illustrates the rear panel of the inverter, detailing the AC input, UPS output socket, battery terminals (positive and negative), and various switches for battery type selection and high performance mode.

5.4 Initial Power-Up

1. After all connections are secure, switch ON the inverter using the power button on the front panel.
2. Connect the inverter to the mains power supply. The inverter will start charging the battery.
3. Observe the LED indicators for normal operation.

6. OPERATING INSTRUCTIONS

6.1 Front Panel Indicators

The graphical LED display panel provides real-time status updates:

Graphical LED Display Panel

with Audio Indicator for Instant Alerts



Figure 4: Graphical LED Display Panel. This image highlights the inverter's front panel LED indicators, showing symbols for UPS Mode, Mains On, Charge, Backup, Low Battery, and Overload, along with the On/Off button.

- **UPS Mode:** Indicates the inverter is providing power from the battery.
- **Mains On:** Indicates the inverter is receiving power from the utility grid.
- **Charge:** Indicates the battery is currently being charged.
- **Backup:** Indicates the inverter is in backup mode (powering load from battery).
- **Low Battery:** Warns that the battery charge is low and requires charging.
- **Overload:** Indicates that the connected load exceeds the inverter's capacity.
- **On/Off Button:** Used to power the inverter ON or OFF.

6.2 Bluetooth App Control

The V-Guard Smart Pro 1200 can be controlled and monitored via a smartphone app using Bluetooth connectivity.

1. Download the V-Guard Smart app from your device's app store.
2. Enable Bluetooth on your smartphone and pair it with the inverter.

3. Through the app, you can access features such as:

- **Water Topping Reminder:** For timely battery electrolyte level checks.
- **Data on Power Cut:** View duration and frequency of power outages.
- **Turbo Charge:** Activate faster charging for quicker battery replenishment.
- **Holiday Mode:** Optimize battery usage during extended periods of absence.
- **User Defined Performance Level:** Customize inverter settings for optimal efficiency.



Figure 5: Bluetooth Connectivity and App Features. This image demonstrates the inverter's Bluetooth connectivity feature, showing a smartphone running the V-Guard app with options like Water Topping Reminder, Power Cut Data, Turbo Charge, Holiday Mode, and User Defined Performance Level.

6.3 Recommended Load

The inverter is designed to support a typical load configuration. Exceeding the maximum peak load of 780 Watts can trigger an overload warning.

- 1 refrigerator (250 liters, Inverter Compressor)

- 1 LED TV (40 inches)
- 3 fans
- 3 tube lights
- 5 LED bulbs (15W each)

7. MAINTENANCE

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

- **Battery Water Level:** For tubular batteries, regularly check the electrolyte level and top up with distilled water as indicated by the app's Water Topping Reminder.
- **Cleaning:** Keep the inverter and battery free from dust and debris. Use a dry cloth to clean the exterior. Ensure ventilation openings are clear.
- **Connections:** Periodically check all cable connections for tightness and corrosion. Clean corroded terminals if necessary.
- **Ventilation:** Ensure the inverter's ventilation fans and vents are not obstructed to prevent overheating.

8. TROUBLESHOOTING

Refer to the table below for common issues and their solutions. If the problem persists, contact customer support.

Problem	Possible Cause	Solution
Inverter not turning ON	No battery connection or low battery charge.	Check battery connections. Ensure battery is charged.
Overload indicator ON	Connected load exceeds inverter capacity.	Reduce the number of connected appliances.
Low Battery indicator ON	Battery charge is low.	Connect to mains power to charge the battery.
No output in backup mode	Battery discharged or faulty.	Check battery charge. Contact service if battery is faulty.
Bluetooth connectivity issues	Out of range, Bluetooth OFF, or app issue.	Ensure device is within range. Turn Bluetooth ON. Restart app/inverter.

9. TECHNICAL SPECIFICATIONS

Feature	Specification
Inverter Type	IoT Pure Sine Wave Inverter
Model	Smart Pro 1200
Capacity	1000 VA
Maximum Peak Load	780 Watts
Battery Voltage	12 Volts

Feature	Specification
Battery Support	Single 12V battery (Tubular, SMF, Flat Plate)
Recommended Battery Capacity	150 Amp Hours
Input Voltage Range	230V AC, 50 Hz (Mains)
Output Voltage	230V AC (Pure Sine Wave)
Inverter Dimensions (L x D x H)	275mm x 250mm x 115mm
Inverter Weight	9.6 kg
Material	High grade ABS with CRCA Cabinet
Connectivity	Bluetooth

10. WARRANTY & CUSTOMER SUPPORT

10.1 Warranty Information

The V-Guard Smart Pro 1200 inverter comes with a **3-year warranty** from the date of purchase. Please retain your purchase receipt and warranty card for service claims. The warranty covers manufacturing defects under normal use conditions.

10.2 Customer Support

For any queries, technical assistance, or service requests, please contact V-Guard customer care:

- **Phone:** 012 0485 0100, 1860 180 3000
- **Email:** customercare@vguard.in
- **Address:** Senior Engineer - Customer Service, V-Guard Industries Ltd. 42/962, Vennala High School Road, Vennala, Kochi- 682028, Kerala, India.

V-Guard offers PAN-India support through over 350 service centers.

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