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> V-Guard Prime 1150 Pure Sine Wave Inverter User Manual

V-Guard Prime 1150

V-Guard Prime 1150 Pure Sine Wave Inverter User Manual

Model: Prime 1150 | Brand: V-Guard

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your V-Guard Prime 1150 Pure Sine Wave Inverter. Designed for home and office use, this inverter delivers reliable power backup with a pure sine wave output, ensuring the safety and longevity of your sensitive electronic appliances. Please read this manual thoroughly before installation and use.



Image 1: V-Guard Prime 1150 Pure Sine Wave Inverter - Front View

2. KEY FEATURES

The V-Guard Prime 1150 Inverter is equipped with advanced features for optimal performance and user convenience:

- **Pure Sine Wave Output:** Ensures stable and clean power, safe for sensitive electronics like computers, TVs, and refrigerators.
- **High Load Capacity:** Supports a 1000VA capacity with a peak load of 800 watts, suitable for various home and office appliances.
- **Wide Battery Compatibility:** Works with 12V lead-acid batteries ranging from 80Ah to 230Ah (single battery). Features selectable charging modes for flat, tubular, or local batteries.
- **Battery Gravity Builder:** Technology designed to prevent deep discharge, promoting longer battery life and consistent backup performance.
- **Battery Water Topping Reminder:** Provides timely alerts to ensure optimal battery maintenance.
- **Graphical LED Display Panel:** Offers smart instant alerts with visual and audio indicators for UPS Mode, Mains ON,

Charge, Backup, Low Battery, Overload, and Check Water.

- **Dual Mode Operation:** Allows selection between UPS Mode for sensitive gadgets (computers) and Normal Mode for general appliances, optimizing battery efficiency.
- **High Performance Selection Switch:** Adjusts performance for more power or longer backup as needed.
- **Mute Buzzer Option:** Allows silencing of inverter alerts via a connected app.
- **Robust Protection:** Includes overcharge and deep-discharge protection, and handles high inrush loads.



Image 2: Intelligent UPS Features of V-Guard Prime 1150.



Image 3: Benefits of Pure Sine Wave Output for V-Guard Prime 1150 Inverter.

3. PACKAGE CONTENTS

Upon unpacking, please ensure all items listed below are present:

- V-Guard Prime 1150 Inverter Unit
- User Manual
- Warranty Card

4. SAFETY INSTRUCTIONS

To prevent injury or damage to the inverter, always follow these safety precautions:

- **Electrical Shock Hazard:** Do not open the inverter casing. Refer all servicing to qualified personnel.
- **Ventilation:** Ensure adequate ventilation around the inverter to prevent overheating. Do not block air vents.
- **Location:** Install the inverter in a dry, well-ventilated area, away from direct sunlight, heat sources, and flammable materials.
- **Battery Connection:** Always observe correct polarity when connecting the battery. Incorrect connection can cause severe damage.

- **Professional Installation:** For optimal safety and performance, it is recommended to have the inverter installed by a qualified electrician.
- **Children and Pets:** Keep the inverter and its connections out of reach of children and pets.

5. SETUP & INSTALLATION

Follow these steps for proper installation of your V-Guard Prime 1150 Inverter:

1. **Placement:** Choose a cool, dry, and well-ventilated location for the inverter. Ensure it is on a stable, flat surface.
2. **Battery Connection:**
 - Connect the **positive (+)** terminal of the battery to the **red (+)** terminal on the inverter using the ISI Certified Battery Wire (+ve).
 - Connect the **negative (-)** terminal of the battery to the **black (-)** terminal on the inverter using the ISI Certified Battery Wire (-ve).
 - Ensure connections are tight and secure.
3. **Battery Type Selection:** On the rear panel, select the appropriate battery type (Tubular, SMF, or Flat Plate) using the switch. This optimizes charging for your specific battery.
4. **Mains Input:** Connect the inverter's mains input cable to a grounded AC power outlet.
5. **Appliance Connection:** Plug your appliances into the UPS Output sockets on the inverter.
6. **Initial Charge:** Allow the battery to charge fully before the first use.



Image 4: Rear Panel of V-Guard Prime 1150 Inverter showing connections and switches. Note: The image highlights the Mains Circuit Breaker (RCB), Mains Input, UPS Output, Battery Type Selection (HC, NC, SMF, FP), 12V Battery terminals (+/-), High Performance Mode switch, Dual Charging, and ISI Certified Battery Wires.

6. OPERATION

6.1 Turning On/Off

- **To Turn On:** Press and hold the power button on the front panel until the display illuminates.
- **To Turn Off:** Press and hold the power button until the display turns off.

6.2 LED Display Indicators

The graphical LED display provides real-time status updates:



Image 5: Graphical LED Display Panel with Audio Indicator for Instant Alerts.

UPS Mode: Indicates the inverter is providing power to connected devices.

Mains ON: Indicates the inverter is receiving power from the utility grid.

Charge: Indicates the battery is currently charging.

Backup: Indicates the inverter is operating on battery power.

Low Batt: Alerts when the battery charge is low.

Over Load: Alerts when connected load exceeds the inverter's capacity.

Check Water: Reminder to check and top up battery water levels.

6.3 Dual Mode Operation (UPS Mode / Normal Mode)

The inverter offers two operational modes:

- **UPS Mode:** Provides instant backup power, ideal for sensitive electronics like computers, ensuring no data loss during power cuts.
- **Normal Mode:** Optimized for general home appliances, balancing backup time and battery efficiency.

To switch between modes, press and hold the power button for a few seconds until the mode changes on the display.

6.4 High Performance Selection Switch

Located on the rear panel, this switch allows you to prioritize either more power output or longer backup duration. Adjust according to your immediate power needs.

6.5 Mute Buzzer Option

You can mute the inverter's audio alerts via the V-Guard smart app. Refer to the app's instructions for details.

6.6 Appliance Compatibility

The V-Guard Prime 1150 supports a wide range of appliances, including inverter fridge (250 liters), 40" LED TV, fans, tube lights, LED bulbs, mixer grinders (up to 600W), and coolers (35 liters).



Image 6: V-Guard Prime 1150 supports a wide range of home appliances.

6.7 Product Video Overview

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Video 1: Official product overview of the V-Guard Prime 1150 Digital Sine Wave Inverter, highlighting its features and benefits for home power backup.

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Video 2: V-Guard Prime 1150 Inverter in action, demonstrating seamless power transition and reliable performance.

7. MAINTENANCE

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

- **Battery Water Level:** Pay attention to the "Check Water" indicator. Regularly check and top up the distilled water in the battery as needed.
- **Cleaning:** Keep the inverter unit 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 clear and unobstructed to prevent overheating.
- **Terminal Connections:** Periodically check battery terminals for corrosion. Clean them if necessary and ensure they are tightly secured.
- **Professional Check-up:** Consider a professional inspection annually to ensure all components are functioning correctly.

8. TROUBLESHOOTING

This section addresses common issues you might encounter with your V-Guard Prime 1150 Inverter. Refer to the LED indicators for diagnosis.

Problem/Indicator	Possible Cause	Solution
Low Batt indicator is ON	Battery charge is low.	Ensure the inverter is connected to mains power and allow the battery to charge. Reduce load if on backup.

Problem/Indicator	Possible Cause	Solution
Over Load indicator is ON	Connected appliances exceed the inverter's capacity.	Disconnect some appliances to reduce the load. Press the Mains Circuit Breaker (RCB) on the rear panel to reset if tripped.
Check Water indicator is ON	Battery water level is low.	Check the battery water levels and top up with distilled water.
Inverter not turning ON	No mains power, discharged battery, or loose connections.	Check mains power supply. Ensure battery is charged and connections are secure. Contact customer support if issue persists.
No output from UPS sockets	Overload, internal fault, or inverter is off.	Check for overload. Ensure inverter is ON. If an internal fault is suspected, contact customer service.

If you encounter issues not covered here or if troubleshooting steps do not resolve the problem, please contact V-Guard customer support.

9. SPECIFICATIONS

Technical specifications for the V-Guard Prime 1150 Inverter:

Feature	Detail
Brand	V-Guard
Model Name	Prime 1150
Inverter Capacity (VA)	1000 VA
Output Power (Watts)	800 Watts
Electrical Output Waveform	Pure Sine Wave
Input Voltage Range	Up to 295 Volts
Output Voltage	240 Volts
Frequency	50 Hz
Battery Voltage	12V
Battery Capacity Compatibility	80 Ah to 230 Ah (single battery)
Item Dimensions (L x W x H)	27.5 cm x 25.5 cm x 12 cm
Item Weight	9.4 Kilograms
Recommended Uses	Home, Office
Special Features	Battery Gravity Builder, Battery Water Topping Reminder, High Inrush Load Handling, Dual Mode Operation

10. WARRANTY & SUPPORT

Your V-Guard Prime 1150 Inverter comes with a comprehensive warranty and dedicated customer support.

- **Warranty Period:** All inverter units purchased on or after April 1, 2025, are covered under a **3-year manufacturer warranty**.
- **Customer Service:** For any queries, service requests, or complaints, please contact V-Guard customer service.
- **Contact Information:**
 - **Phone:** 012 0485 0100, 1860 180 3000
 - **Email:** customercare@vguard.in
 - **Address:** Senior engineer - Customer Service at V-Guard Industries Ltd. 42/962, Vennala High School Road, Vennala, Kochi- 682028, Kerala, India.

