

## V-Guard VEW 400 Plus

# V-Guard VEW 400 Plus Voltage Stabilizer User Manual

Model: VEW 400 Plus

## 1. INTRODUCTION

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Thank you for choosing the V-Guard VEW 400 Plus Voltage Stabilizer. This device is designed to protect your valuable appliances, particularly air conditioners, from voltage fluctuations. It ensures a stable power supply, enhancing the lifespan and performance of your connected equipment. Please read this manual carefully before installation and operation to ensure safe and efficient use.

## 2. IMPORTANT SAFETY INSTRUCTIONS

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- Always ensure the stabilizer is installed by a qualified technician.
- Do not open the stabilizer casing. There are no user-serviceable parts inside.
- Keep the stabilizer away from water, moisture, and direct sunlight.
- Ensure proper ventilation around the unit to prevent overheating.
- Verify that the input voltage range of the stabilizer matches your local power supply conditions.
- Disconnect power before performing any maintenance or cleaning.

## 3. PRODUCT OVERVIEW AND FEATURES

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The V-Guard VEW 400 Plus is a robust voltage stabilizer equipped with advanced features to safeguard your appliances.



Figure 1: Front view of the V-Guard VEW 400 Plus Voltage Stabilizer, showing its grey casing and digital display.

### Key Features:

- **Digital Display:** Clearly shows both input and output voltage levels for easy monitoring.
- **Built-In Thermal Overload Protection:** Automatically disconnects power during excessive temperature conditions to prevent damage.
- **Low & High Voltage Cut-off Protection:** Safeguards connected appliances by cutting off power when voltage goes beyond safe operating limits (90V to 300V range).
- **Wall Mounting Cabinet Design:** Allows for convenient and space-saving installation.
- **Intelligent Time Delay System:** Features a 5-second initial time delay to protect appliances from sudden power surges or fluctuations during startup.



## 4. SETUP AND INSTALLATION

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Proper installation is crucial for the optimal performance and safety of your stabilizer. It is highly recommended to have this unit installed by a certified electrician.

### Installation Steps:

1. **Unpacking:** Carefully remove the stabilizer from its packaging. Inspect for any signs of damage.
2. **Placement:** Choose a dry, well-ventilated location, preferably near the appliance it will protect. The wall-mounting design allows for secure placement. Ensure there is sufficient space around the unit for heat dissipation.
3. **Mounting (if applicable):** Use appropriate screws and wall plugs to securely mount the stabilizer on a sturdy wall. Refer to the mounting template (if provided with the physical product) for drill hole positions.
4. **Wiring:**
  - Connect the main power supply (input) to the designated input terminals on the stabilizer.
  - Connect your appliance (e.g., AC unit) to the output terminals of the stabilizer.
  - Ensure all connections are tight and secure. Use appropriate gauge wiring for the load.
5. **Initial Power-Up:** After all connections are made, switch on the main power supply. The stabilizer's digital display will illuminate.

**Warning: Incorrect wiring can lead to electric shock or damage to the stabilizer and connected appliances. Always consult a professional for installation.**

## 5. OPERATING INSTRUCTIONS

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The V-Guard VEW 400 Plus operates automatically once installed correctly.

### Normal Operation:

1. Upon powering on, the stabilizer will initiate a 5-second time delay. This delay protects your appliance from immediate power fluctuations.
2. During operation, the digital display will continuously show the input and output voltage levels. Monitor these readings to understand your power supply conditions.
3. If the input voltage falls below 90V or rises above 300V, the stabilizer will automatically cut off the power supply to the connected appliance to protect it. Power will be restored automatically once the voltage returns to a safe operating range.

No manual intervention is typically required during normal operation.

## 6. MAINTENANCE

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The V-Guard VEW 400 Plus is designed for minimal maintenance. Follow these guidelines to ensure its longevity:

- **Cleaning:** Periodically wipe the exterior of the stabilizer with a soft, dry cloth. Do not use liquid cleaners or solvents.

- **Ventilation:** Ensure that the ventilation openings are not blocked by dust or debris. Clean them gently if necessary.
- **Connections:** Occasionally check the wiring connections to ensure they remain tight and free from corrosion. Disconnect power before checking connections.

## 7. TROUBLESHOOTING

If you encounter issues with your V-Guard VEW 400 Plus, refer to the following table before contacting customer support.

Problem	Possible Cause	Solution
Stabilizer not turning on / No display	No input power; Loose connections; Internal fault.	Check main power supply. Ensure all connections are secure. If problem persists, contact service.
Appliance not receiving power	Input voltage too low/high; Stabilizer in delay mode; Overload protection activated.	Wait for voltage to stabilize. Check if the 5-second delay has passed. Reduce load if appliance is too powerful for stabilizer.
Stabilizer making strange noise	Normal operation during significant voltage correction; Loose internal components.	Some operational noise during voltage correction is normal. If noise is excessive or continuous, contact service.
Digital display is too bright at night	Environmental factor; No brightness adjustment feature.	This is a characteristic of the product. Consider placing the unit where the display brightness is not an issue, or use a light-dimming film if desired.
Stabilizer cuts off power below 90V	This is a safety feature.	The stabilizer is designed to protect your appliance by cutting off power when voltage drops below its operational range (90V). This is normal behavior.

## 8. SPECIFICATIONS

Technical specifications for the V-Guard VEW 400 Plus Voltage Stabilizer:

Feature	Detail
Model Number	VEW 400 Plus
Manufacturer	V-Guard (Haryana)
Input Voltage Range	90V - 300V
Output Voltage	Stabilized Output (e.g., 200V-240V, typical for AC stabilizers)
Item Weight	14 kg 400 g

Feature	Detail
Item Dimensions (LxWxH)	41 x 31 x 21 Centimeters
Included Components	Stabilizer and Warranty card
Protection Features	Thermal Overload, Low & High Voltage Cut-off
Display	Digital (Input/Output Voltage)

## 9. WARRANTY AND SUPPORT

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### Warranty Information:

The V-Guard VEW 400 Plus Voltage Stabilizer comes with a **3-year warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal operating conditions. Please retain your purchase receipt and the included warranty card for future reference.

### Customer Support:

For technical assistance, service requests, or warranty claims, please contact V-Guard customer support. Refer to the contact details provided on your warranty card or visit the official V-Guard website for the most up-to-date support information.

**Manufacturer:** V-Guard

**Model:** VEW 400 Plus