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## V-Guard VG 100 Supreme

# V-Guard VG 100 Supreme Refrigerator Stabilizer User Manual

Model: VG 100 Supreme

## 1. PRODUCT OVERVIEW

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The V-Guard VG 100 Supreme is a voltage stabilizer designed to protect your refrigerator or deep freezer from harmful voltage fluctuations. It ensures a stable power supply, extending the lifespan of your appliance.



Figure 1: V-Guard VG 100 Supreme Stabilizer

This stabilizer is suitable for refrigerators and deep freezers up to 600 liters capacity and features a 6 Ampere capacity. It operates within a working range of 135-280 VAC and includes a convenient LED indicator for monitoring performance.

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Video 1: V-Guard VG 100 Supreme Stabilizer Features and Benefits. This video provides a visual overview of the stabilizer's key functionalities and protective measures.

## 2. KEY FEATURES

- **Suitable for Refrigerators or Deep Freezers up to 600 L:** Designed to support appliances with a capacity of up to 600 liters, ensuring optimal power supply.
- **Initial Time Delay System:** Protects and extends the life of your appliance's compressor by providing a gradual power supply during start-up, reducing stress and wear.
- **High and Low Voltage Cut Off:** Automatically disconnects the power supply when voltage levels exceed or drop below safe thresholds, preventing damage to sensitive components.
- **Fail-Safe Circuit:** Immediately activates to isolate devices from the electrical supply during mishaps and intelligently restores power once voltage stabilizes.

- **Convenient LED Indicator:** Provides real-time information on the input and output performance of the stabilizer, keeping you informed about the power supply status.
- **Advanced IC Based Design Circuitry:** Ensures accurate and reliable input voltage correction.
- **Built-in Thermal Overload Protection:** Enhances safety by protecting against overheating.
- **Compatible with Generators:** Can be used with generator power supplies.
- **20V Maximum Boosting & 23V Bucking:** Provides effective voltage regulation.

**BUILT-IN-TIME DELAY SYSTEM** to Protect your Refrigerators Compressor During Power Outages



LED LIGHTS	WHAT IT INDICATES
— —	Normal working mode
— —	Restart time delay / Voltage cut-off mode
— —	No power supply / Indicates overload condition* wait for 10-15 min

Using the LED indications, you can easily check if your stabilizer is in time delay mode or in normal working mode

**Important notes:** Never use a plug/universal adapter or any such devices to connect the refrigerator to the stabilizer.  
\* Check if the power supply is on, if the power is on and both the LEDs are off, the stabilizer could be in overload condition

Figure 2: Unmatched Safety Features of VG 100 Supreme

### 3. SETUP & INSTALLATION

Follow these steps for proper installation of your V-Guard VG 100 Supreme Stabilizer:

1. **Placement:** Place the stabilizer on a stable, flat surface, such as a table, near your refrigerator or deep freezer. Ensure adequate ventilation around the unit.
2. **Appliance Compatibility:** Verify that your refrigerator or deep freezer's capacity (up to 600 L) and power requirements are within the stabilizer's specifications (6A capacity, 135-280 VAC working range).
3. **Power Connection:** Plug the stabilizer's power cord into a suitable wall socket.
4. **Appliance Connection:** Plug your refrigerator or deep freezer's power cord into the output socket of the stabilizer.
5. **Initial Power On:** Switch on the main power supply to the stabilizer. Observe the LED indicators for operational status.

**Important Note: Never use a plug/universal adapter or any such devices to connect the refrigerator to the stabilizer. Connect directly.**

## Why V-Guard Stabilizers ?

V-Guard Stabilizers are synonymous with trust, longevity, and solidity. Born in 1977, V-Guard has always been at the forefront of design and technological innovations, be it wall-mounted designs, IoT-enabled stabilizers or several other industry-defining products, making V-Guard an undisputed leader in the voltage stabilizer category.



Figure 3: Considerations for Stabilizer Selection and Placement

## 4. OPERATION

The V-Guard VG 100 Supreme Stabilizer operates automatically to protect your appliance. Key operational aspects include:

- **Automatic Voltage Correction:** The stabilizer continuously monitors the incoming voltage and adjusts it to a safe output range for your appliance.
- **Initial Time Delay:** Upon powering on or after a power cut, the stabilizer initiates a time delay before supplying power to the appliance. This protects the compressor from immediate restarts, which can cause damage.
- **Voltage Cut-off:** If the input voltage goes too high or too low, the stabilizer will cut off the power supply to the appliance to prevent damage. Power will be restored automatically once the voltage returns to a safe operating range.

### LED Indicator Guide

The stabilizer features LED indicators to provide real-time status information:

# How to Choose the Right Stabilizer for your Refrigerator

Here are 4 factors that you need to consider while purchasing a stabilizer for your refrigerator

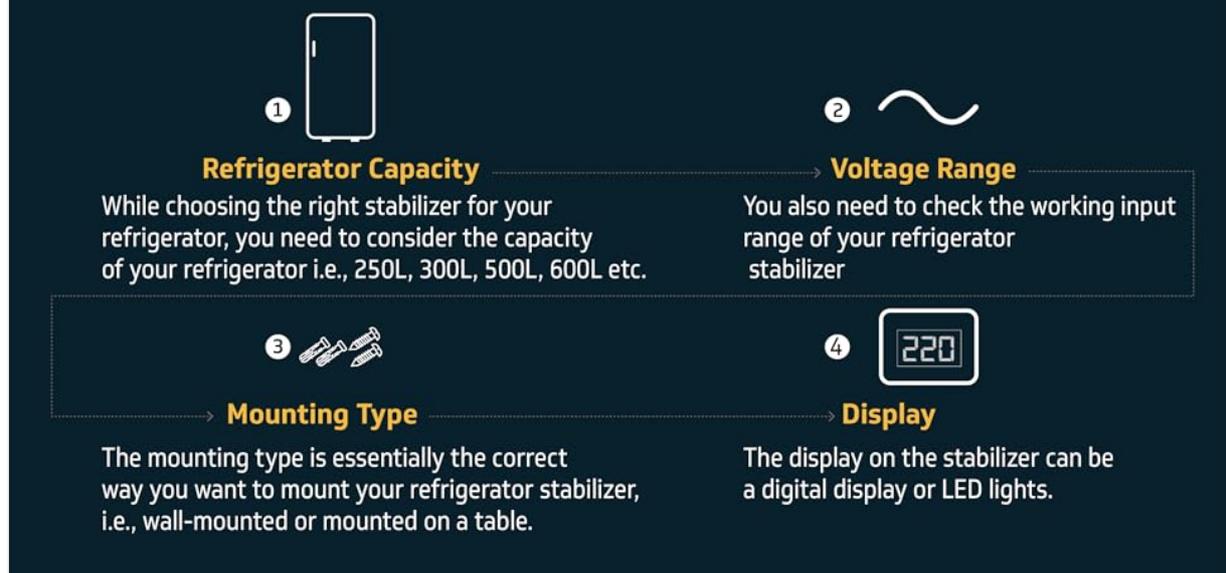


Figure 4: LED Indications and Meanings

LED Lights	What It Indicates
Green LED On	Normal working mode (Stabilized Output)
Red LED On	Mains On (Input Power Present)
Both LEDs Flashing	Restart time delay / Voltage cut-off mode
No LEDs On	No power supply / Indicates overload condition*

\*If the power supply is on, and both LEDs are off, the stabilizer could be in an overload condition. Wait for 10-15 minutes before checking again.

## 5. MAINTENANCE

The V-Guard VG 100 Supreme Stabilizer requires minimal maintenance to ensure its longevity and optimal performance:

- **Cleaning:** Regularly wipe the exterior of the stabilizer with a soft, dry cloth to remove dust. Do not use liquid cleaners or abrasive materials.
- **Ventilation:** Ensure that the ventilation openings on the stabilizer are not blocked. Proper airflow is crucial to prevent overheating.
- **Cable Inspection:** Periodically check the power cords for any signs of damage, fraying, or loose connections. Replace damaged cables immediately.
- **Avoid Overloading:** Do not connect appliances that exceed the stabilizer's maximum capacity (6A). Overloading can damage the unit and connected appliances.
- **Environmental Conditions:** Keep the stabilizer away from direct sunlight, excessive moisture, and extreme temperatures.

## 6. TROUBLESHOOTING

If you encounter issues with your V-Guard VG 100 Supreme Stabilizer, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Stabilizer not turning on (No LEDs)	No input power / Loose connection / Overload	Check wall socket and power cord connection. Ensure the main power switch is on. Disconnect appliance, wait 10-15 min, then reconnect.
Appliance not receiving power	Voltage outside operating range / Time delay active / Stabilizer fault	Check if LEDs are flashing (time delay/cut-off). Wait for power to stabilize. If problem persists, contact support.
Stabilizer making unusual noise	Normal operation (relay clicks) / Internal fault	Slight clicking sounds are normal during voltage correction. If noise is loud or continuous, disconnect and contact support.
Overheating	Blocked ventilation / Overload	Ensure ventilation openings are clear. Reduce load if possible. Disconnect and allow to cool before restarting.

For issues not listed here or if troubleshooting steps do not resolve the problem, please contact V-Guard customer support.

## 7. SPECIFICATIONS

Feature	Description
Model	VG 100 Supreme
Appliance Type	Refrigerator or Deep Freezer
Max. Appliance Capacity	Up to 600 Liters
Capacity	6 Amperes
Working Voltage Range	135-280 VAC
Item Weight	2 kg 250 g
Item Dimensions (LxWxH)	29 x 27.5 x 18.7 Centimeters
Included Components	1 Stabilizer Unit & Warranty Card
Cord Length (Outside)	1.1 m
Cabinet Material	ABS

## 8. WARRANTY & SUPPORT

The V-Guard VG 100 Supreme Stabilizer comes with a **3-year warranty** from the date of purchase. Please

retain your purchase receipt for warranty claims.

## Customer Support:

For any queries, service requests, or warranty claims, please contact V-Guard customer service:

- **Contact Person:** Senior Engineer - Customer Service
- **Address:** V-Guard Industries Ltd. 42/962, Vennala High School Road, Vennala, Kochi- 682028, Kerala, India
- **Phone:** 012 0485 0100, 1860 180 3000
- **E-mail:** [customercare@vguard.in](mailto:customercare@vguard.in)

You can also visit the official V-Guard website for more information and support resources.