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› V-Guard ARIZOR 4150 Voltage Stabilizer User Manual

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Model: ARIZOR 4150

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1. PRODUCT OVERVIEW

The V-Guard ARIZOR 4150 is an electronic voltage stabilizer designed to protect your Inverter Air Conditioner (AC) from voltage fluctuations. It ensures a stable power supply, enhancing the lifespan and performance of your AC unit. This manual provides essential information for the safe and efficient installation, operation, and maintenance of your stabilizer.



Image 1.1: The V-Guard ARIZOR 4150 Voltage Stabilizer shown alongside an air conditioning unit, illustrating its compact design and intended use.

2. KEY FEATURES

- **Designed for Inverter ACs up to 1.5 Ton:** Compatible with inverter split air conditioners up to 1.5 Ton / 18000 BTU/hour capacity for reliable voltage protection.
- **Wide Input Voltage Range:** Supports a working range from 150V to 280V to safeguard your AC from voltage fluctuations, surges, and unstable power conditions.
- **Smart Voltage Correction:** Advanced microcontroller-based design ensures faster voltage correction and stable output for safe AC operation.
- **Intelligent Time Delay System (ITDS):** Provides compressor balancing delay during power fluctuations and restart conditions for enhanced AC protection.
- **Digital Display & Elegant Design:** Features modern ABS cabinet construction with a digital display showing input/output voltage and protection status for easy monitoring.



Image 2.1: A close-up view of the V-Guard ARIZOR 4150 stabilizer, highlighting its digital display which shows voltage readings.

3. SETUP AND INSTALLATION

Proper installation is crucial for the safe and effective operation of your voltage stabilizer. It is recommended that installation be performed by a qualified electrician.

3.1 Unpacking

- Carefully remove the stabilizer from its packaging.
- Inspect the unit for any signs of damage during transit. Do not install if damaged.
- Ensure all included components (stabilizer unit, mounting accessories if any) are present. The product includes the stabilizer unit itself.

3.2 Mounting

The ARIZOR 4150 features a wall-mounting cabinet design for convenient placement.

1. Choose a suitable location near your AC unit, ensuring it is away from direct sunlight, heat sources, and moisture.
2. Mark the drilling points on the wall using the stabilizer as a template or referring to the mounting guide (if provided separately).
3. Drill holes and insert wall plugs. Secure the stabilizer to the wall using appropriate screws.



Product details

AC Stabilizer serves as excellent protection for your air-conditioner. Distinguished by a thermal overload protection system, any condition of overload or over current is addressed through a thermal sensor that disconnects the load immediately to avoid a high-temperature burnout.

Image 3.1: The V-Guard ARIZOR 4150 stabilizer shown mounted on a wall, demonstrating its integration with an AC unit in a room setting.

3.3 Electrical Connections

WARNING: Ensure the main power supply is OFF before making any electrical connections.

1. Connect the input power cable from your main electrical supply to the designated input terminals on the stabilizer.
2. Connect the output cable from the stabilizer to your Inverter AC unit.
3. Ensure all connections are secure and properly insulated.
4. Verify that the stabilizer's capacity matches or exceeds the AC unit's power requirements.

4. OPERATING INSTRUCTIONS

4.1 Powering On

1. After ensuring all connections are correct, switch on the main power supply.
2. The stabilizer's digital display will illuminate, showing the input voltage.
3. The Intelligent Time Delay System (ITDS) will initiate a delay (typically a few seconds to minutes) before providing output to the AC. This protects the AC compressor from immediate restarts after power interruptions.
4. Once the delay is complete and the output voltage is stable, the stabilizer will supply power to the AC.

4.2 Digital Display

The digital display provides real-time information:

- **Input Voltage:** Shows the voltage received from the main power supply.
- **Output Voltage:** Displays the stabilized voltage being supplied to the AC.
- **Protection Status:** May indicate various protection modes (e.g., high voltage cut-off, low voltage cut-off, delay active).

4.3 Normal Operation

During normal operation, the stabilizer continuously monitors the input voltage and adjusts the output to maintain a stable supply for your AC. You may observe the digital display changing as the input voltage fluctuates, but the output to the AC will remain within the safe operating range.

5. MAINTENANCE

The V-Guard ARIZOR 4150 is designed for minimal maintenance. However, regular checks can ensure its longevity and optimal performance.

- **Cleaning:** Periodically 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 to prevent overheating.
- **Cable Inspection:** Regularly check power cables for any signs of wear, cuts, or damage. Replace damaged cables immediately.
- **Professional Check:** Consider having a qualified technician inspect the unit annually, especially if you experience frequent power fluctuations.

CAUTION: Do not attempt to open the stabilizer casing. There are no user-serviceable parts inside, and doing so will void the warranty and expose you to electrical hazards.

6. TROUBLESHOOTING

If you encounter issues with your V-Guard ARIZOR 4150, refer to the following table before contacting customer support.

Problem	Possible Cause	Solution
Stabilizer not powering on.	No power from main supply; loose connections.	Check main power switch and circuit breaker. Ensure all cables are securely connected.
AC not receiving power after stabilizer powers on.	Intelligent Time Delay System (ITDS) active; extreme voltage fluctuation; overload.	Wait for the ITDS delay to complete. Check if input voltage is within the operating range (150-280V). Ensure AC load does not exceed stabilizer capacity.
Digital display shows error or unusual readings.	Severe voltage issue; internal fault.	Disconnect power for 5 minutes, then reconnect. If the issue persists, contact customer support.
Stabilizer making unusual noise.	Normal operation (some humming is expected); internal component issue.	A slight humming sound is normal. If the noise is loud or unusual, disconnect power and contact customer support.

7. TECHNICAL SPECIFICATIONS

- **Model:** ARIZOR 4150
- **Input Voltage Range:** 150 VAC - 280 VAC
- **Output Voltage:** Stabilized output (typically 200-240V, depending on design)
- **AC Compatibility:** Inverter ACs up to 1.5 TON / 18000 BTU/hour
- **Technology:** Microcontroller-based Smart Voltage Correction
- **Protection Features:** Low & High Voltage Cut-off, Intelligent Time Delay System (ITDS), Thermal Overload Protection (inferred from product details)
- **Display:** Digital Display (Input/Output Voltage, Status)
- **Cabinet:** Modern ABS Wall Mounting Design
- **Item Weight:** 4 kg 280 g
- **Included Components:** Stabilizer Unit

8. WARRANTY AND CUSTOMER SUPPORT

The V-Guard ARIZOR 4150 Voltage Stabilizer comes with a **3-year warranty** from the date of purchase, covering manufacturing defects. Please retain your purchase receipt for warranty claims.

8.1 Warranty Terms

The warranty covers repair or replacement of defective parts due to manufacturing faults. It does not cover damage caused by improper installation, misuse, unauthorized repairs, natural disasters, or normal wear and tear.

8.2 Customer Support

For technical assistance, service requests, or warranty claims, please contact V-Guard customer support. Refer to the contact information provided on the product packaging or the official V-Guard website.

V-Guard Official Website: www.vguard.in

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