



USER MANUAL

**ELECTRONIC
VOLTAGE
STABILIZER**

Congratulations on owning a product that is not just thoughtfully designed, but also the most advanced in its category, without a doubt. Every stabilizer is inspected and tested thoroughly before leaving our premises. We undertake to repair this unit FREE OF CHARGE for a period of 36 months from the date of purchase, if any defect in material or workmanship occurs. This undertaking does not extend to any equipment for which the voltage stabilizer is connected.

Model : VD 400 PLUS	Capacity : 12 Ampere	Application: One Air Conditioner Up to 1.5 TON
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The most up-to-date design and manufacturing standards make this an ideal guard to your equipment from voltage fluctuations. This unit can withstand up to 320V AC input. Please ensure that excess voltage beyond this level is not fed to the stabilizer, which can cause serious damage to the stabilizer and connected equipment, in which case this warranty will have no application. This stabilizer is designed to work up to 50°C ambient temperature. Surge or spike protection is not provided in this stabilizer.

Please follow these simple instructions carefully:

Connect your equipment to V-GUARD stabilizer and connect the stabilizer to mains. Do not cover the stabilizer with cloth or any other material and ensure that proper ventilation is provided for stabilizer. Please be sure that there is no loose connection and the earthing is proper. This stabilizer is provided with digital display, normally shows input and output voltages intermittently. When the display shows i/p voltage or o/p voltage, the stabilizer is feeding normal voltage to your connected equipment. If the display shows 'dLy' or 'Ht-' then the stabilizer is in restart time delay or High temperature cut-off condition respectively.

Condition	Display Indication	Output Voltage
Normal Input and Output Voltage	IP- (Shows Input Voltage)	Available
	OP-(Shows Output Voltage)	
Low / High Voltage Cut-off	Lo / Hi	Not Available
High Temperature Cut-off	Ht-	
Time Delay	dLy	
Thermal Sensor Error	ntc	
Output Voltage Error	OHi	
**Overload Cut-off /No Mains Input	<i>No Display</i>	

This stabilizer is provided with an "Intelligent Time Delay System". Initially when the stabilizer being in OFF condition for more than three minutes, is switched ON, there won't be any time delay. If the power supply fails and comes back within three minutes, there will be a time delay depending upon the period of absence of power. If power failure lasts for more than three minutes, the stabilizer will be switched ON automatically at the arrival of the power. This affords proper balancing time for the compressor before restart. If the line voltage below 140V or above 290V the stabilizer will not give output voltage and the display shows 'Lo' & 'Hi' respectively. In few places it is likely that voltage remains very low during peak hours of power consumption (between 6 p.m. and 9 p.m.). Hence stabilizer may be in cut-off condition, if the line voltage is below 140V. When the line voltage comes to the working range, the stabilizer will give output automatically.

**This stabilizer is provided with thermal overload protection feature. When the internal temperature rise of the product exceeds the pre-set limit due to overloading or misbehaviour of connected equipment the protection acts, and stabilizer goes to OFF hence Digital Display indications will be in OFF condition. Confirm the connected load draws not more than the rated current of this stabilizer and wait for 10-15 min to restart the stabilizer automatically.

Switch off stabilizer when AC is not in use.



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