USER MANUAL STABLIZER AND SURGE PROTECTOR

MAIN FEATURES:

1. Intelligent Microcontroller based.

2. Automatic Voltage Switcher (AVS).

3. High/Low Volt Disconnect.

4. Relay-operated tap set switching stabilization technique.

5. Input / Output Voltage Display.

6. LED Indicator.

7. Delay ON/OFF Switch.

8. Time Countdown.

Thank you very much for purchasing this AC Automatic Voltage Regulator.

To ensure proper use of this unit please read the instructions in this user manual carefully.

THEORY OF OPERATION:

The AVR works by constantly monitoring its input voltage and when it moves outside the tolerance range set for nominal voltage level, it then corrects its voltage level output to the protected equipment, ensuring that it always receives a 'safe' voltage and thereby allowing it to continue to operate unharmed.

UNPACKING:

. Remove the polystyrene protective packaging.

. Ensure that the contents include the Warranty Registration Card.

. Retain the box and packaging material in case you need it for a Warranty return.

INSPECTION:

Check that the unit is undamaged.

INSTALLATION:

Installation of the AVR is simple and straightforward but please takes time to read through these instructions before attempting to install the unit.

The AVR can be connected to the main electricity supply by simply plugging the AVR cable into a suitable wall socket. The protected equipment is then plugged into the AVR.

CAUTION:

Do not plug this unit into an extension cord or any kind of fused power strip.

NOTE:

The AVR will not connect the supply to the protected equipment until it has checked the voltage level and if necessary, corrected it to a safe level.

Once any delay period has passed the AVR will allow the supply to pass through to the protected equipment.

UNDERSTANDING THE FRONT PANEL:

INPUT VOLTAGE DISPLAY	Shows input voltage.
OUTPUT VOLTAGE DISPLAY	Shows output voltage.
WORKING LED	Working LED is ON when the unit is working normal.
DELAY LED	Delay LED flashes when unit is in delay-mode & Shows time countdown in seconds.
NORMAL LED	Normal LED is ON when regulator is within Range (below 50V & above 260V).
DELAY SWITCH	Delay ON: 150- seconds, for refrigerators and Built-in compressors, appliances. Delay OFF: 2-seconds (computer, T.V, fax etc.).

DISPLAY ERROR CODES:

No Input /Output volts 

Input /Output below 80 volts 

Input /Output above 260 volts 

SPECIFICATIONS:

Operating Voltage	220VAC
Stabilization Range	From 50 to 260V
Output Voltage	220VAC+/- 5%.
Maximum Load	SEE LABEL AT BACK
Frequency	50/60 Hz
Indicators	LED displays: Working, Delaying and Abnormal 7-segment; Input volts (+/-2V), Output volts (+/-2V)
Disconnection Voltage	Above 260V. Below 50V
Protection	Auto reconnects after delay
High Voltage Protection	Integrated circuit protection
Low Voltage Protection	Integrated circuit protection
Housing	Metal Case, powder coated
Dimensions	Height=7.5" (19cm), Width=6.1" (15.5cm), Depth=9" (22cm)
Weight	5.5kg

SAFETY:

- FOLLOW all safety instructions and use with caution when installing and operating any electrical equipment.
- CHECK that the voltage of the main electricity supply is the same as the voltage of the unit before connecting it to the electric supply. (See the label on the back)
- CHECK that the maximum current rating of the equipment you intend to connect, does not exceed the maximum current rating of the unit before connecting to the electric supply. (See Label on Back)

[Most Equipment is labeled to show the maximum current rating. If connecting more than one appliance, calculate the total current rating by adding all of the current ratings together]

- DO NOT expose this equipment to rain, moisture or liquid spillage.
- DO NOT attempt to dismantle the unit, as this will invalidate the warranty. There are no user serviceable parts inside.

WARNING! Risk of electric shock!

- To avoid the risk of shocks, do not expose this equipment to liquids or high moisture areas.
- Never insert any object into the ventilation slots.
- Never dismantle the Voltage Stabilizer.

CAUTION!

Before attempting to use the Voltage Stabilizer, ensure that the total amperage load of your equipment does not exceed the maximum rating of the Voltage Stabilizer. To check the rating, refer to the label on the back of the unit.