

VOLTSTAB FF 500/4R and FF 500/PA STABILISER INSTRUCTIONS

Introduction

This information has been prepared to help you understand the characteristics of the Advance-Galatrek VOLTSTAB Automatic Voltage Stabilisers and to obtain the best results from them.

Basic Characteristics

FF 500/4R

The FF500/4R stabiliser is based on an auto-transformer, with its output selected by a reliable solid state micro electronic control circuit.

Because of the way in which the system operates, the output voltage will change in steps or 'jumps' between the low and high limits specified. These limits are -10% and +16% of the rated output voltage. For example, if the rated output is 220V, the actual output may jump between a low of 220V -10% = 198V and a high limit of 220V +16% = 255V. This regulation will be maintained over the specified range of input voltages which are 145 to 278 for 220V nominal. This stabilising action is quite acceptable for the appliances with which these stabilisers are designed to be used. i.e. Refrigerators, Freezers and small air conditioners, etc. If the appliance has an electric motor in it, you will notice a slight change in its speed and sound as the supply voltage is regulated in this way. Do not worry this is quite normal.

FF 500/PA

The FF500/PA stabiliser is completely solid state, containing no moving parts, and is controlled by a purpose built microelectronic circuit. Because it is solid state, the unit will not suffer from mechanical wear and reliability is improved. The stabiliser works by using phase control to regulate the output voltage. Because of the way it works, this stabiliser is only suitable for use with purely resistive loads, such as an absorption type refrigerator. IT MUST NOT BE USED WITH A LOAD THAT CONTAINS A MOTOR (SUCH AS A COMPRESSION TYPE REFRIGERATOR), OR WITH ELECTRONIC DEVICES (SUCH AS TELEVISIONS, WHICH WOULD BE DAMAGED BY CONNECTION TO THIS UNIT)

All units have high and low voltage cut outs as standard. The stabiliser will withstand an overload voltage of up to 450V AC without damage.

It is important that the output voltage of your stabiliser matches the input operating voltage of the appliance with which it is used.

Installation

Your VOLTSTAB Automatic Voltage Stabiliser should be mounted as close as possible to the appliance with which it is to be used. It should not be mounted in a hot position and you should leave an air space around the sides and top of not less than 8cms (3") to allow the Stabiliser to cool.

These Stabilisers are suitable for use over an ambient temperature range from -10 degrees C to +40 degrees C and Relative Humidity not greater than 90%.

Safety

The output of these Stabilisers is not isolated from the mains input supply.

For safe operation it is essential that your VOLTSTAB Stabiliser is properly earthed. All appliances used with your stabiliser must also be connected to the same earth, where ever they are fitted with an earth terminal. Failure to do so can result in severe electric shock or death to any person using the appliance. IF IN DOUBT, PLEASE CONSULT A QUALIFIED ELECTRICAL INSTALLER.

More than one appliance may be operated at the same time from the Stabiliser. In such cases you must make sure that the total separate power ratings (Watts or better still, manufacturers rated VA) of the appliances connected does not exceed the power rating of the Stabiliser, which is 500VA. Advance-Galatrek can accept no responsibility for any failure, loss or damage of any kind caused by failure to observe this condition.

The normal colour code used on mains leads is:

EARTH	GREEN AND YELLOW
NEUTRAL	BLUE
LIVE	BROWN

Fuses

These Stabilisers are fitted with a miniature circuit breaker which is rated at 10 Amps and is "ON" in the up position. Some versions have an additional protective fuse for the logic circuit, this 20mm fuse and is rated at 3.15A (Ultra fast type).

Please be Patient

On switching 'on' or after cut out operation there will be delay before electricity is available from the stabiliser. A minimum of 6-9 minutes for the FF 500/4R and 2-3 minutes for the FF 500/PA.

If you are not sure about any aspect of your Advance-Galatrek VOLTSTAB Automatic Voltage Stabilisers, please consult your local Authorised Dealer.