

Introduction

This information has been prepared to help you understand the characteristics of the Automatic Voltage Stabilisers (AVS) and how to obtain the best results from them.

Basic Characteristics

The AVS***3 range of Stabilisers are microprocessor controlled with relay switching of the taps. Due to the design of the circuit there is no interruption in the supply to the load during tap changes. If the supply falls outside the operating range of the AVS the load is disconnected for it's protection. Once the supply falls within the range, and is stable, the load will be reconnected.

Installation

Your AVS should be mounted as close as possible to the appliance with which it is to be used. It should not be mounted in a position with a high ambient temperature or in direct sunlight. Leave an airspace around the sides and top of not less than 80mm to allow for adequate ventilation.

Safety

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

It is essential for safe operation, that your AVS is properly earthed. All appliances used with your AVS must also be connected to the same earth, wherever 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, CONSULT A QUALIFIED ELECTRICIAN.**

More than one appliance may be operated at the same time from the AVS, but in such cases you must ensure that the total separate power ratings (Watts or manufacturers rated VA) of the appliances connected does not exceed the power rating of the AVS, (see chart). The supplier will not accept any responsibility for any failure, loss or damage of any kind caused by failures to observe this condition.

The normal colour code for the mains supply is: -

Earth	-	Green and Yellow
Neutral	-	Blue
Live	-	Brown

Protection

The AVS is fitted with an MCB located on the rear panel which is also the on/off switch..

Switch on delay

There is a slide switch on the rear of the AVS to select the switch on delay. In the "OFF" the unit will provide an output within 7 seconds of power being applied. In the "ON" position there will be a delay of 7minutes before an output is provided. This delay will also occur after an interruption in the supply or if the output has been removed because the supply is outside the operating range.

The green indicator indicates the presence of input voltage and the red indicator indicates the presence of output voltage.

NOTE: If switch position is changed while the unit is operating the change may not take effect until the unit is switched off then back on again.

If you are not sure about any aspect of your AVS, then please do not hesitate to consult your local authorised dealer.



Voltstab AVS503-3003 Automatic Voltage Stabiliser (AVS)

Specification

	AVS503	AVS1003	AVS2003	AVS3003
Load	500VA/Watts	1000VA/Watts	2000VA/Watts	3000VA/Watts
Input	230Vac -50% + 22% (145-280Vac) 50/60Hz			
Max input surge	450Vac			
O/P regulation	4%			
O/P stability	-15% to +10%			
NOTE:	For full specification see data sheet.			

- 1) Supply Neon
- 2) Output on Neon
- 3) Output Socket
- 4) MCB/ON-OFF switch.
- 5) ON delay switch
- 6) Input (supply)

NOTE:
AVS3003 3 & 6 are replaced by 16A industrial connectors.

