

AVS Automatic Voltage Stabilisers

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The AVS unit offers robust, maintenance free protection for loads that can suffer erratic operation or be damaged by mains power sags, surges and brownouts.

The AVS range is ideal for geographical regions that are subject to inconsistencies in the mains supply, such as Africa, Asia and certain parts of Europe. The units are designed to smooth out sags, surges and brownouts in the mains power supply, protecting sensitive medical and domestic inductive loads such as fridges freezers and air conditioners.

Each stabiliser has a wide input voltage tolerance and has been designed to provide the ultimate reliability in hostile environments, where the quality of the mains supply cannot be guaranteed.

Operation

The built in microprocessor monitors the incoming mains supply and automatically selects a tap configuration to meet stabilisation and output voltage set points. If the mains supply falls outside pre-set upper or lower voltage limits, the Automatic Voltage Stabiliser disconnects the protected load. The stabiliser automatically restarts when the mains supply returns to within the pre-set range.

Features

- ◆ Auto transformer with microprocessor controlled no-break output
- ◆ Low installation, heat loss and maintenance free
- ◆ High Mean Time Between Failure (MTBF)
- ◆ Auto restart on mains return with pre-set range
- ◆ Start up delay to prevent damage to inductive loads
- ◆ Overload protection - MCB
- ◆ Wide input voltage range
- ◆ Fast response time
- ◆ Low Mean Time To Repair (MTR) Field replaceable PCB
- ◆ Easy to install
- ◆ Faulty wiring withstand up to 450V



Specifications

Suitable for any nominal voltage 220-240V

Input range	146-277V
Output range*	230* +/- 7%
Frequency	50/60 Hz
Efficiency	97%
Operating Temperature	0-40°C
Neon Indications	Mains and Output
Overload Protection	Input Breaker
Metal Case	IP21
Safety Standards	CE marked, EN 60742, EN 60950

* Other voltage configurations available

Applications

- ◆ Both Absorption and Compression based Fridges and Freezers[†]
- ◆ Air Conditioners and dehumidifiers[†]
- ◆ Central heating pumps[†]
- ◆ Photocopiers and laser printers
- ◆ UPS to widen their input voltage window and reduce battery usage.
- ◆ UPS Bypass to provide protection during maintenance

[†]Size stabiliser at double inductive load rating

Options

- ◆ Mains voltage and frequency to suit geographical locations
- ◆ Mains plug and output socket to suit local needs

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Model No	Power Rating at 0.7pf	Terminations	Dimensions/mm W x D x H	Weight Kg
AVS 750/**	750VA	Plug & socket	205 x 265 x 160	8.5
AVS 1500/**	1500VA	Plug & socket	205 x 265 x 160	10.5
AVS 3000/**	3000VA	Plug & 2 sockets	265 x 360 x 215	18.0
AVS 4500/**	4500VA	Plug & 2 sockets	265 x 360 x 215	21.0

* suffix assigned on voltage and termination choice