

SAFETY

All equipment designed and manufactured by Sollatek (UK) Ltd complies with the latest safety codes of practice. You should still follow all safety instructions and use caution when installing and operating electrical equipment.

To avoid the risk of a shock, DO NOT expose this equipment to rain, moisture, or liquid spillage. Before attempting to use it, ensure that the total loading of your equipment does not exceed 30 Amps.



START-UP



When the AVS30 is powered up, it will enter Wait Mode and your equipment will remain OFF.



After the wait time has elapsed or the "By-pass Wait" button is pressed, the AVS30 connects the supply to turn your equipment ON.

OPERATION



High Voltage. Equipment OFF



Good Voltage, recovered from high voltage. AVS30 in Wait Mode, equipment OFF



Good Voltage. Equipment ON



Good Voltage, recovered from low voltage. AVS30 in Wait Mode, equipment OFF



Low Voltage. Equipment OFF

WAIT MODE

Wait Mode provides voltage monitoring and protection against power-back surges and frequent power-ups by ensuring the mains power has fully stabilised before reconnecting it to your equipment. If:

- Wait Mode set to a time:** The AVS30 reconnects power to your equipment automatically after the set wait time has elapsed.
- Wait Mode set to Man:** The AVS30 will remain in wait mode until the power is manually connected to the equipment via the BY-PASS WAIT button.



Note: If wait mode is set to a time, the delay can be bypassed to instantly turn your equipment ON by pressing the BY-PASS WAIT button on the front of AVS30.

The AVS30 will automatically adjust the wait time depending on the disconnection period to make the total OFF time equal to the set Wait Time. i.e. If Wait Time is 3 minutes and the disconnection is 2 minutes, then the wait time added is just 1 minute.

TIMESAVER™

When the AVS output remains switched off for more than the user set Wait Time, on resumption of a stable supply, the AVS output will automatically switch back on and supply load after 10 seconds.

LIABILITY OF THE COMPANY

- The company shall not be liable, either in contract or in tort for any loss, injury or damage of whatsoever nature or to whomsoever or by whatsoever cause arising directly or indirectly from any defect in the Goods (whether latent or apparent) or as a result of the use of the Goods (save and except any liability for death of or injury to any person resulting directly from the negligence of the company) and the customer shall fully indemnify the company against all claims and demands made upon the company by reason of any such loss or injury or damage.
- Without prejudice to the provisions of the immediately preceding sub clause the company shall not in any event be liable for consequential or indirect loss or damage howsoever arising under the contract or in relation to the Goods.
- The customer hereby acknowledges that the restrictions in this clause are fair and reasonable in the circumstances.

WARRANTY

Unless otherwise agreed with the company or where the company has notified the customer of special terms in respect of specified categories of goods the company agrees at its option either to refund the cost of or repair or replace goods proved to the company's reasonable satisfaction to have failed under proper storage and use within 24 months of delivery by reason of defects due to faulty design (other than any design made, furnished or specified by the customer) materials or workmanship provided that:

- The customer shall have followed any instruction issued by the company in relation to the goods and their storage.
- In the case of defects which would have been apparent to the customer on reasonable examination of the goods on delivery, 'the' customer shall notify the company of the defects within 14 days of delivery.
- In the case of any other defects the customer shall notify the company of the defects in writing within 7 working days of the date when the defect becomes apparent.
- Where in discharge of its obligation under this clause the company agrees that the customer may undertake any repair work on its behalf the cost of such work shall be agreed in writing between the customer and the company before the commencement of such work.

RETURN OF GOODS

- Goods supplied in accordance with the customer's orders cannot be accepted for return without the prior written consent of the company and in accordance with the company's returns procedure.
- The company reserves the right to levy a handling, administration or other charge of such amount as it, in its absolute discretion, decides and may deduct this from any credit allowed unless the reason for any return by the customer is due to any fault or breach of these conditions on the part of the company.
- Returned goods must be sent carriage paid at the customer's risk to the company's trading premises or to such other address as the company may direct.
- The company will not allow credit in respect of returned goods not in fully re-saleable condition.



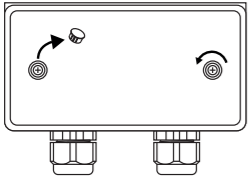
Voltshield™
AVS30
APPLIANCE GUARD
AUTOMATIC VOLTAGE SWITCHER



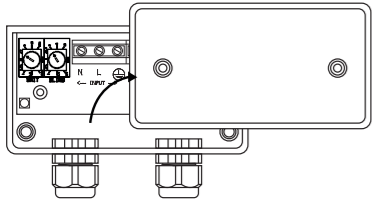
TERMINAL COMPARTMENT

Within the Terminal compartment, there are terminals for electrical connections, unit mounting holes, and setting dials.

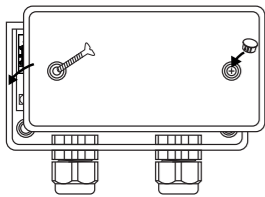
- Isolate the power to the AVS30 before removing the terminal cover.



- Remove the screw hole covers.
- Loosen the two fixing screws and remove them from the hole.



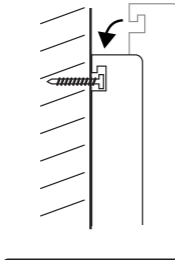
- Lift the terminal cover to remove it.



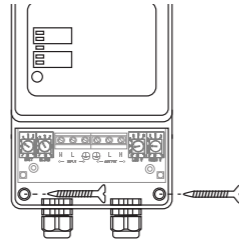
Ensure the terminal cover is replaced and securely fixed in position before powering ON the AVS30.

MOUNTING

- Mark and drill the top mounting hole.



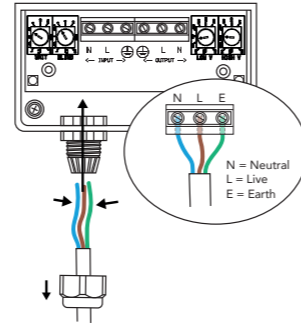
- If required, insert appropriate wall fixings into the hole and then fasten a screw into the hole. Leaving the screw extruding about 10 mm.
- Hang the AVS on the protruding screw using the notch on the back of the AVS30.



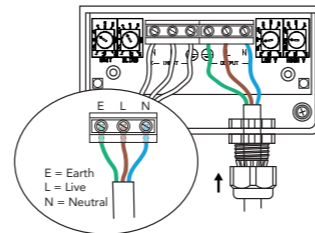
- Ensure the unit is level before marking and drilling the two bottom mounting holes.
- If wall fixings are required, remove the AVS30 from the wall and insert fixings into the wall. Replace the AVS30 on the top screw.
- Tighten 2 screws into the bottom mounting holes to secure the AVS30 to the wall.

ELECTRICAL CONNECTIONS

- A fuse or circuit breaker (30 Amps or less) must be fitted on the main supply to protect the AVS30.
- Ensure the connected equipment does not exceed 30 Amps.



- Unscrew the cable gland and insert the cable through the gland nut.
- Insert the mains cable through the left gland.
- Loosen the terminal screws and insert the wires into the corresponding terminals. Fully tighten the terminal screws.
- Tighten the cable gland nut to secure the cable in place.



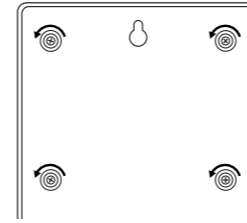
- Unscrew the cable gland and insert the cable through the gland nut.
- Loosen the terminal screws and insert the wires into the corresponding terminals. Fully tighten the terminal screws.
- Tighten the cable gland nut to secure the cable in place.

REPAIR/MAINTENANCE

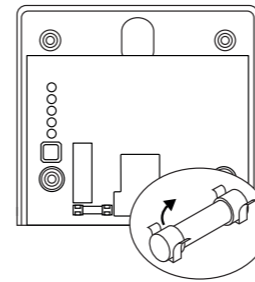
If the AVS30 is subject to a severe surge, the internal surge protection fuse may blow.

Replacing the fuse alone may not provide full levels of surge protection as other components may also have become damaged during the surge, depending on the voltage level and duration of the surge.

- Only a qualified person should carry out repairs.
- Ensure power is isolated before carrying out repairs.



- Remove the 4 screws from the rear of the unit and then remove the cover.

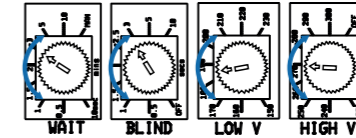


- Ensure to replace the fuse with a fuse of the same type and rating: 5.0 A HBC Anti Surge 20x5 mm.
- Replace and securely fix the cover in position before powering ON the AVS30.

SETTING CHANGE

Dial	Range	Default	Description
Wait Time	10 sec to 10 min, MAN	3 min	The duration that the AVS30 will monitor the voltage before connecting it to your equipment after start-up or a disconnection period caused by high or low voltage. If set to Man, the power will only be connected to the equipment when the "By-pass Wait" button is pressed.
Blind Time	OFF, 0.5 to 10 s	3 s	The duration that the AVS30 will ignore low voltage before disconnecting the supply. A long blind time is recommended when the equipment causes momentary voltage dips due to a high start-up inrush current.
Low Voltage	150 V to 230 V	170 V	The minimum voltage that the AVS30 will still power your equipment. When the voltage falls below this set value, the AVS30 will disconnect the equipment from the supply.
High Voltage	230 V to 300 V, OFF	270 V	The maximum voltage that the AVS30 will still power your equipment. The AVS30 will disconnect the equipment from the supply when the voltage exceeds this set value. If set to OFF, the AVS30 will continue to supply the equipment regardless of the voltage value.

Note: Always match the set AVS30 limits to the equipment requirements.



Using a small, slotted screwdriver or your thumb, rotate the corresponding dial to make the required adjustments.

SPECIFICATION

Nominal Voltage	230 V
Maximum Supply Voltage	320 V
Current Rating	30 Amps
Power Rating	6900 W @ Nominal 230V
Frequency	50/60 Hz
Inrush Current	110 A
Max Consumption	<100 mA
Voltage Disconnect	150 to 300 V (user settable)
Hysteresis (reconnection voltage)	3 to 5 V from set limits
Low Voltage Blind Time	OFF, 0.5 to 10 s
High Voltage Blind Time	<20 ms
Wait Time	Manual, 10 s to 10 min
Spike Protection	143 J
Mains Spike Discharge (8/20 μs)	5 kA
Spike Response Time	<10 ns
Temporary Over Voltage (TOV)	425 V
Connector	Screw Terminals (6 mm – 10 Awg)
Unit Dimensions	184 x 134 x 53 mm (without cable glands)
Unit Weight	500 g

