



Voltshield™ A/C GUARD



A/C Guard user instructions

INTRODUCTION

The A/C Guard is an Automatic Voltage Switcher with over current protection. The A/C Guard will switch off the load equipment if the mains voltage goes too high or too low and will reconnect automatically when the mains power returns within safe limits. Reconnection takes place automatically after a delay, to ensure stability of the supply and to allow compressor pressure to normalise. These features protect the air conditioner from damage, allow it to run more efficiently and prolong its service life.

The A/C Guard has a built-in microprocessor that adds advanced features. These include:

- High voltage disconnection.
- Low voltage disconnection.
- Under voltage blind time.
- Short circuit overload protection.
- Intelligent time delay with Time Save™ feature.
- Status indication by three LED indicators.

CONNECTION

Isolate power from the A/C Guard, the appliance and the wiring before starting work.

1. Remove the cover of the A/C Guard to obtain access to the connection terminals and mounting holes. To do this, remove the four screws in the front corners of the A/C Guard enclosure.
2. The A/C Guard has a unique cable access and cable routing system as part of the enclosure. This allows cables to enter from above, below or through the wall from behind.
3. Insert the cables from the electricity supply and the air conditioner (load) through the cable access apertures in the rear of the enclosure. Fit the cables into the cable channel as needed. Screw the A/C Guard enclosure to the wall using the mounting holes provided.
4. Terminate the supply and load cables to the terminals in the A/C Guard. The incoming supply live should connect to 'LIN' (from mains). The load live should connect to 'LOUT'. The two neutral wires (from the mains and to the A/C) both connect to the 'N' terminal. An earth terminal is provided if required but it is not necessary for the function of the unit. Note: Do NOT connect directly to the circuit breaker in the A/C Guard.
5. Re-fit the cover to the A/C Guard ensuring the red, yellow and green indicators fit correctly into the cover. Secure the cover with the four screws.
6. Set the circuit breaker on the front of the A/C Guard to the off position and turn on the supply to the A/C Guard.

OPERATION.

7. Turn on the A/C Guard circuit breaker. If the supply voltage is bad (too high or too low) then the red indicator will show and the load will not be powered.
- If the supply voltage is good, the yellow indicator will light. The load will remain off until the delay time has elapsed. If the power is still good, then the green indicator will turn on and the load will receive power.
8. The delay time is normally 4 minutes. However, if the power has already been off for a while, then the **delay is automatically reduced** accordingly by the A/C Guard Time Save™ feature. It will not be reduced below a minimum of 10 seconds.
9. If the voltage should go bad, the A/C Guard will disconnect the load to protect it, and the red LED will indicate. When the supply becomes good again, the A/C Guard will automatically turn the load on again as described above.
10. If the circuit breaker should switch off, check there is not a fault in the wiring or in the air conditioner. Then turn the circuit breaker back on.

NOTES:

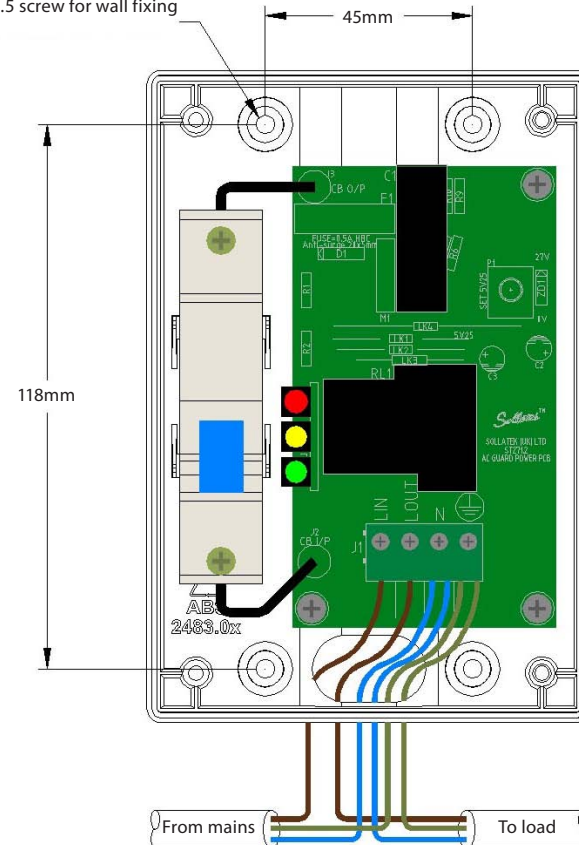
The A/C GUARD must be mounted securely on a wall. Ensure it is not in direct sunlight or in a place where it will get wet.

It is recommended that the A/C GUARD is kept switched on all the time. The appliance should be switched on and off with its own normal control.

Inside the A/C GUARD, you will find a fuse on the circuit board in the top left corner. The fuse is not for the load. It is a spike protection fuse. Replace if it gets damaged (0.5A Anti-Surge). ENSURE THAT THE A/C GUARD is isolated from the supply before removing the cover.

CONNECTION diagram

4 x 4mm hole for No.6 or M3.5 screw for wall fixing



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