

# FREOGUARD VOLTAGE PROTECTOR

## Voltage Protection for Compressors, Fridges, Freezers and Coolers

Provides complete voltage protection for fridges and freezers from all power supply fluctuations. Motors generally, and refrigeration compressors specially are susceptible to damage from under voltage. The motor (particularly the compressor in a refrigeration system) draws more current to compensate for the lower mains supply voltage, burning out its windings or at least reducing its useful life.

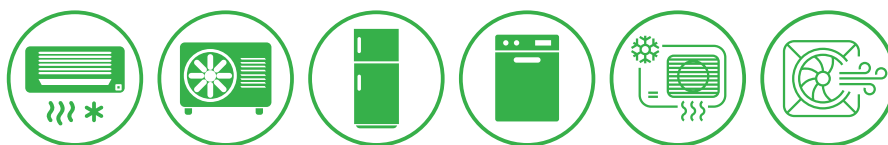
Over-voltage is potentially damaging to all electrical and electronic equipments. One particularly damaging condition can occur when the supply returns after the mains has been off, as reinstatement of the supply is frequently accompanied by high surges and transients. The Freoguard protect equipment by disconnecting the mains supply when it goes either below or above pre-set acceptable limits. It also has an intelligent time delay providing added protection against frequent stops and starts, Intelligent start up delay: By monitoring the mains supply at all times, if the unit has been switched off for a long period, the Freoguard reduces its own start up delay to maximize operation time.

The Freoguard has a built-in microprocessor which adds the advanced feature save time. Save time means that when the mains returns to normal, the Freoguard checks the duration of the OFF time. If the unit has been off for more than 3 minutes, then it will reconnect the mains within 30 seconds rather than the standard 3 minutes. This mean the Freoguard will give you more vital working time than any other protection unit.



### ✓ Applications

Voltage protection for all fridges, freezers and coolers.



✔ Offer Protection Function for Home Appliances:



High Voltage



Low Voltage



Spikes/  
Surges

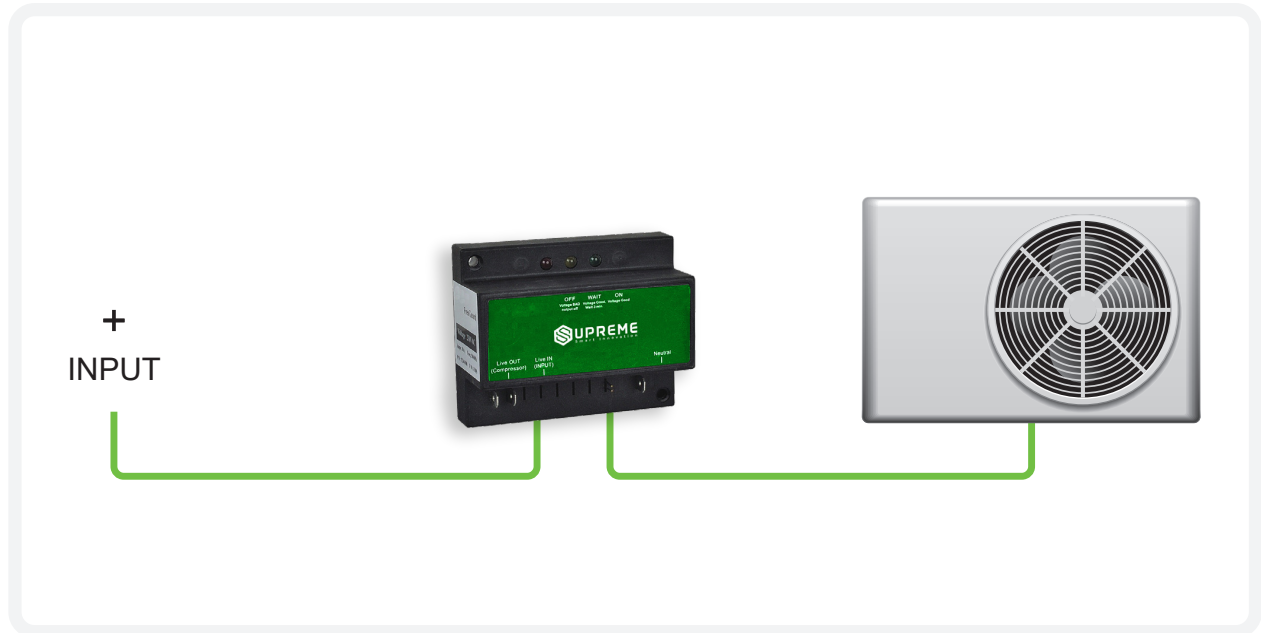


Power-Back  
Surges



Basic  
Lightning

✔ Connection Diagram



✔ Technical Data

COMPRESSOR PROTECTOR

Nominal Voltage	230V
Current Rating	30Amps
Frequency	50/60Hz
Over-Voltage Disconnect	260V
Over-Voltage Reconnect	255V
Under-Voltage Disconnect	180V
Under-Voltage Reconnect	185V
Mains Spike Response Time	<10ns
Mains Spike Discharge Amps	6.5kA
Spike Protection	160J
Wait Time	3 Minutes