Voltshield™

The Sollatek A/C Guard

Protection for air-conditioning equipment in the home and office
Protection for:

- Air-conditioning equipment in the office and home
- Commercial and industrial fridges and freezers

Appliances such as air-conditioning and refrigeration units are particularly vulnerable to damage caused by low voltage ‘brownouts’. With the A/C Guard, your equipment is protected against all power fluctuations: over-voltage as well as low voltage, spikes, surges, power back surges and power fluctuations.

Part of Sollatek’s highly versatile Voltshield Range which uses the Sollatek Switcher technology, the A/C Guard switches off the air-conditioner instantly when a power problem occurs, reconnecting it only once the mains supply has stabilised.

Simple installation – complete peace of mind
The A/C Guard is easily installed by an electrician and suitable for use with all air-conditioners, including split units, as well as industrial refrigeration equipment. Once it has been directly wired between the mains and your appliance, the A/C Guard provides complete protection automatically. Choose between 16, 20 or 25Amp models to match the rating of your air conditioner or load.
**Sophisticated protection**

The A/C Guard’s Automatic Voltage Switcher functions protect against low voltage, high voltage, power-back surges, power fluctuations and surges/spikes. It features a start up delay of about 4 minutes to prevent frequent switching on and off during fluctuations.

The A/C Guard has a built-in microprocessor which adds the advanced feature TimeSave™ to save on down time. TimeSave™ means that when the mains returns to normal after any event, the A/C Guard checks the duration of the OFF time. If the unit has been off for more than 4 minutes then it will switch the air-conditioner on within 10 seconds rather than the standard 4 minutes. If however, the unit has been off for less than 4 minutes, the A/C Guard will ensure that it will remain off up to 4 minutes and then restarts automatically.

**Circuit breaker function**

An integral circuit breaker enhances the protection offered by the A/C Guard. If a short circuit or over-load occurs, the circuit breaker detects the fault and the air conditioner is safely disconnected. To resume operation, simply switch the A/C Guard circuit breaker on again, assuming the cause of the overload has been removed. The air conditioner will restart automatically after an intelligent time delay.

**A/C Guard features**

- **Automatically protects against:**
  - Low voltage and brownouts.
  - High voltage, spike and surge protection.
  - Power back surges by start up delay.

- **Intelligent time delay before power reconnection prevents:**
  - Frequent start stops.
  - Protects against power back surges.
  - Ensures optimal working time and avoids unnecessary down time.

- **Circuit breaker provides:**
  - Short-circuit and overload protection.

- **Versatile range offering 3 models:** 16, 20 and 25Amps.
- **All single phase.**
- **Easy installation:** direct wiring adding extra security.
- **Two year worldwide warranty.**
A/C Guard
Protection for • Air conditioners • All electrical and electronic appliances

Max power 16, 20, or 25 amps
Wait time 4 minutes intelligent time delay
Ideal for Air conditioners, large fridge/freezers
Tip Rated up to 25 amps for use with air-conditioners up to 44,000 B.T.U
Direct wiring adds security of installation
Weight 400 gm
Dims 140 x 90 x 78 mm

Features:
- 25 AMPS UP TO 44,000 BTU UP TO
- 4 MINUTES START-UP DELAY
- MICROPROCESSOR CONTROL
- CIRCUIT BREAKER
- TIMESAVE OVERLOAD PROTECTION
- A/C Guard 16
- A/C Guard 20
- A/C Guard 25

Applications:
- Protection:
  - Low Voltage
  - High Voltage
  - Spikes/Surges
  - RFI / Noise
  - Power Cuts
  - Telecom Surges

Basic Applications:
- Telecom Surges
- Basic Power Cuts
- Telecom Surges
- Power Cuts
- RFI / Noise
- Telecom Surges
- Power Cuts
- Basic

Specifications:

<table>
<thead>
<tr>
<th>Model</th>
<th>A/C Guard 16</th>
<th>A/C Guard 20</th>
<th>A/C Guard 25</th>
</tr>
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<tbody>
<tr>
<td>Current (circuit breaker) rating</td>
<td>16A</td>
<td>20A</td>
<td>25A</td>
</tr>
<tr>
<td>Over voltage disconnect</td>
<td>230V models 110V models</td>
<td>264V 132V</td>
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<tr>
<td>Under voltage disconnect</td>
<td>230V models 110V models</td>
<td>195V 92.5V</td>
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<tr>
<td>Over voltage reconnect</td>
<td>230V models 110V models</td>
<td>262V 131V</td>
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<tr>
<td>Under voltage reconnect</td>
<td>230V models 110V models</td>
<td>190V 90V</td>
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<tr>
<td>Reconnect wait</td>
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<tr>
<td>Mains disconnect response time</td>
<td>Over-voltage Under-voltage</td>
<td>0.5 sec 2.0 sec</td>
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<tr>
<td>High voltage hysteresis</td>
<td>230V models 110V models</td>
<td>2V 1V</td>
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<tr>
<td>Low voltage hysteresis</td>
<td>230V models 110V models</td>
<td>1V 2.3V</td>
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<tr>
<td>Mains surge/spike response time</td>
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<td>Mains max spike/surge discharge</td>
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<td>Frequency</td>
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<td>Spike protection</td>
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<td>Indicators</td>
<td>3 LEDs</td>
<td>Red LED: Voltage bad (Load off) Yellow LED: Voltage good (Wait, Load off) Green LED: Voltage good (Load on) No LEDs lit: No voltage (Power cut/circuit breaker off)</td>
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<td>Max. cable size</td>
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<td>Socket availability</td>
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<td>Unpacked 140 x 90 x 78 mm 245 x 150 x 80 mm</td>
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<tr>
<td>Weight</td>
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