



VOLTAGE PROTECTION

SOLLATEK POWER PROTECTION SOLUTIONS

COMPLETE RANGE OF VOLTAGE SWITCHERS,
SUPPRESSORS, STABILISERS, REGULATORS,
INVERTERS AND UNINTERRUPTIBLE POWER
SUPPLIES (UPS)

Sollatek[™]
the power to protect

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Beware! Copies and counterfeits could damage your appliances and potentially cause electrical fires, putting yourself, your family and your home at risk.

Only authorised Sollatek Retailers sell the genuine and patented Sollatek product.

Stay original and do not compromise on your safety.

Only buy genuine Sollatek



SOLLATEK PROVIDES COMPLETE VOLTAGE PROTECTION FOR YOUR ELECTRICAL EQUIPMENT

Voltsure™

Maxima 3kVA - WL 3kVA online inverter

The Sollatek Maxima series is a rugged range of UPS and Inverters. The Maxima 3K-WL is a particularly rich featured online inverter that is built for most demanding applications when long runtimes are required during prolonged power cuts.



see page
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for more info

Voltright™

FridgeRight

The FridgeRight provides you with voltage stabilisation and protection for your domestic fridge / freezer against high and low voltage. A built in startup delay (3 mins) will allow motors to decompress.



see page
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for more info

TVRight

The TVRight provides you with voltage stabilisation and protection for your TV against high and low voltage. A built in startup delay (10 secs) will protect against power back surges.



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for more info

Voltright™

ACRight

The ACRight provides you with voltage stabilisation and protection for your air conditioner. The ACRight will ensure that low and high voltage is brought to a safe working level for your air conditioning to operate properly and to cool efficiently. A built in startup delay will protect against power back surges.



see page
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for more info

Voltsure™

PowerBack 1500L

The Sollatek PowerBack L (Linear) is an economical emergency backup system that makes it possible for homes or offices to have continued access to electrical service during power outages. The Sollatek PowerBack L is a transformerless battery-based system that will provide simple and silent operation. Up to 1.5kVA.

Voltshield™

SMC

The Multifunction Controller (SMC) is an electronic measuring device that monitors single phase AC voltage and initiate the output at pre-determined levels. It offers extensive programmable features and variety of options depending on the user application.



see page
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for more info

Voltsure™

Maxima LCD UPS Uninterruptible power supply

The Sollatek Maxima - A true double conversion UPS. Maxima will provide clean, high level quality power to fully protect mission-critical devices such as sensitive networks, small computer centres, servers, telecom applications, as well as industrial applications.



see page
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for more info



see page
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for more info

Voltsure™

PowerBack PB5000S and PB3000S

The Sollatek PowerBack S range - is an inverter/charger unit that will accept Mains as well as Solar charging. This Linear/Transformer-less range is suitable for high performance applications and is especially useful in remote areas where mains charging is scarce and solar availability is abundant.



see page
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for more info

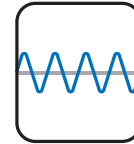
Voltright™

SVS04E

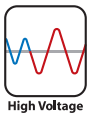
The Sollatek SVS04E boasts a very wide input voltage range providing a much needed boost in areas of very low voltage. The SVS04E will operate from 100V to 290V and has a modern state of the art 7 LED display to indicate accurately the state of the input at all times.

Power problems and their associated causes

All electrical and electronic equipment, connected to the mains supply is at risk of being damaged from spikes, surges, lightning, brown-outs, power-cuts (blackouts), power back surges, and over-voltage. The following is a summary of the main types of power problems, their causes, and how these affect electrical and electronic equipment.



Pure, computer-grade power



High Voltage

High/Over-Voltage: Long duration (milliseconds, seconds, minutes, hours or days) rise in the voltage above acceptable limits. Depending on the level of the over-voltage, the damage can be instantaneous, severe and irreparable.

What causes it? On return of mains supply after power cuts, under-sized utility oscillating between periods of brown-outs and over-voltage or accidental (e.g. accidental connection between two phases).



Basic Lightning

Lightning: Direct or nearby strikes can cause minor problems or severe disturbances and damage. Lightning produces spikes/surges, over-voltage or power cuts.

What causes it? The surge is generated by either a direct hit, or indirectly striking underground or overhead lines and transmitting high surges to connected equipment in nearby buildings. For more information, see page 16.



Low Voltage

Brown-Out / Under-Voltage: Long duration of low voltage (milliseconds to seconds, minutes, hours or days). Very common in parts of the world especially where the power utilities are over-stretched. Prolonged and frequent brown-outs cause the equipment to malfunction or not work at all. Repeated episodes are certain to cause damage. Motors and compressors (and therefore fridges, freezers, coolers, air-conditioners and pumps) are especially at risk. In time, damage is certain.

What causes it? Most commonly an over-stretched utility, especially in areas of poor power distribution infrastructure and remote areas. Common in dry seasons where water is used for electricity generation.



Power Cuts

Power Cuts: Common in every country in the world, especially in areas of frequent voltage problems. Sudden loss of power can cause damage ranging from corruption of data to mechanical faults as equipment is stopped while in operation.

What causes it? Power or substation failure, breakdown in the distribution network, or simply a plug being pulled out accidentally.



Spikes/Surges

Spikes/Surges: Very short, (one millisecond) events of very high surge in voltage to thousands of volts and amps. Spikes are common in all parts of the world and repeated exposure to spikes will damage electronic equipment and corrupt data.

What causes it? Switching on/off of nearby equipment, lightning, motors starting etc.



Power-Back Surges

Power-Back Surges: These typically occur when power returns after a power-cut and connected equipment receives a surge of electricity at an over-voltage level, which can be very damaging (see above).

What causes it? Power back surges are created by the utility, when it restores supply at an above normal voltage in order to compensate for the demand as connected equipment re-starts simultaneously.



RFI / Noise

RFI (Radio Frequency Interference) / Noise: High frequency disturbances that occur within a short period of time (milliseconds). RFI & noise are very common in all parts of the world and are the main cause of data corruption.

What causes it? Generated by high frequency noise from nearby equipment like TV, radio equipment, transmitters, mobile phones, switching on/off of certain loads, fluorescent lights, motor speed controls, light dimmers.



Telecom Surges

Telecom Surges, Spikes and Lightning: Short term, high voltage and current phenomena occurring on the telephone lines. Can cause irreparable damage to any piece of equipment connected to the incoming line. The telephone line itself may even be damaged or destroyed in severe cases.

What causes it? Telecom spikes are caused by lightning striking either the telephone line directly or an object near it.

The Sollatek voltage protection range consists of four categories:

Voltshield™

The Switcher Range

Disconnects power when voltage level exceeds set parameters. Automatically reconnects again when power returns inside parameters for a pre-set period.

Voltright™

The Stabiliser and Regulator Range

Ensures equipment can still operate although the voltage level is outside its 'normal' range, by automatic correction within set levels.

Voltsafe™

The Suppressor Range

Stops short-term disturbances (created by lightning strikes, power stations or nearby equipment switching on & off), from causing damage.

Voltsure™

The UPS Range

Keeps equipment operating temporarily in a blackout by using standby battery power.

Voltshield™ Switchers



NotebookGuard

Mains over voltage protection

Up to 2 Amps

PAGE 9



HivoltGuard

Mains over voltage protection

Up to 6 Amps

PAGE 9



TVGuard

Mains over voltage protection

Up to 6 Amps

PAGE 9



FridgeGuard

Mains under voltage protection

Up to 6 Amps

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VoltGuard

Mains over & under voltage protection

Up to 7 Amps

PAGE 10



LightningGuard

Over voltage protection and data/telecom spike/surge protection

Up to 6 Amps

PAGE 10



AVS13 Appliance Guard

Automatic Voltage Switcher

Mains over & under voltage protection

13 Amps

PAGE 11



AVS13RL Appliance Guard

Automatic Voltage Switcher

+ RFI & lightning protection

Mains over & under voltage protection

13 Amps PAGE 11



AVS15 Aircon Guard

Automatic Voltage Switcher

Mains over & under voltage protection

15 Amps

PAGE 11



SMC

Multifunction Controller

20 Amps

PAGE 12



A/C Guard

Automatic Voltage Switcher

Mains over & under voltage protection

Up to 25 Amps

PAGE 12



AVS30 Appliance Guard

Automatic Voltage Switcher

Mains over & under voltage protection

30 Amps

PAGE 13



AVS100 Appliance Guard

Automatic Voltage Switcher

Mains over & under voltage protection

100 Amps

PAGE 13



AVS303

Automatic Voltage Switcher

Mains over & under voltage protection

1250 Amps - 3 phase

PAGE 14



AVS3P-0

Automatic Voltage Switcher

Mains over & under voltage protection

Unlimited Amps - 3 phase

PAGE 14

Voltsafe™ Suppressors



MultiGuard MG

Premium mains spike/surge protection

Up to 13 Amps

PAGE 15



MultiGuard MGX

Value mains spike/surge protection

Up to 16 Amps

PAGE 16



MultiGuard MGX-W

Mains spike/surge protection. World socket

Up to 16 Amps

PAGE 16



MultiGuard MGX-B

Mains spike/surge protection. USB outlets

Up to 16 Amps

PAGE 16



PureAC

Mains spike/surge and RFI protection

Up to 13 Amps PAGE 16



DSP Single phase direct wired distribution panel

Mains spike/surge and lightning protection

PAGE 17



DSP Three phase direct wired distribution panel

Mains spike/surge and lightning protection

PAGE 17



DSP Single phase Din rail mounted

Mains spike/surge and lightning protection

PAGE 18



DSP Single & three phase Din rail

Mains spike/surge and lightning protection

PAGE 19

Voltright™ Stabilisers/Regulators



TVRight / FridgeRight

Voltage Regulation and stabilisation

Up to 2 Amps

PAGE 20



ACRight

Voltage Regulation and stabilisation

Up to 12 Amps

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Sollatek Voltage Stabiliser (SVS)

Mains over & under voltage stabilisation protection

Up to 16 Amps

PAGE 21



Sollatek Voltage Stabiliser (SVS)

Mains over & under voltage stabilisation protection

Up to 75 Amps

PAGE 22



Automatic Voltage Regulator (AVR)

Mains over & under voltage stabilisation protection

Up to 10 Amps

PAGE 23



Automatic Voltage Regulator (AVR)

Mains over & under voltage stabilisation protection

20 to 400 Amps

PAGE 23



Automatic Voltage Regulator (AVR)

Mains over & under voltage stabilisation protection

20 to 3000 Amps per phase - 3 phase

PAGE 24

Voltsure™ UPS (Uninterruptible Power Supplies)



Ultima LCD UPS

Uninterruptible power supply

Up to 2000VA

PAGE 25



Maxima LCD UPS

Uninterruptible power supply

Up to 6000VA

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PowerBack PB series UPS

Uninterruptible power supply

Up to 1.5kVA

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PowerBack

Transformerless, non-linear range Inverter with fast charger

Up to 5000VA

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Maxima WL Inverter with fast charger

Up to 3000VA

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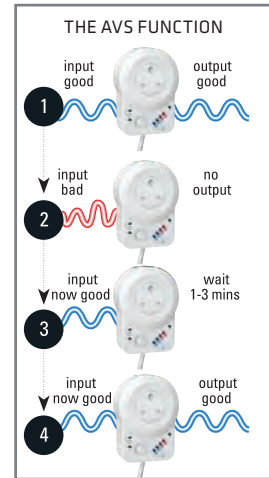


AVS™ function

The **AUTOMATIC VOLTAGE SWITCHER (AVS™)** function adds the following protective function: For complete protection, simply plug the Automatic Voltage Switchers (AVS) into the mains and plug in your appliances. When the mains power supply fluctuates outside pre-set tolerances (nominally 190V and 260V) the power to your equipment is disconnected.

The AVS monitors the voltage for a short period to ensure the power has stabilised before re-connecting. In addition, the start-up delay provides protection against power-back surges commonly experienced after resumption of power in a power cut situation.

Surge and spike protection is also incorporated to ensure protection against these events which are very common. They are generated by lightning and nearby switching off and on of other equipment such as vacuum cleaners, pumps, motors, television, elevators etc.



TIMESAVE™ function

TIMESAVE™ adds the following protective function:

Some Sollatek units have a built-in microprocessor which adds the advanced feature TimeSave.™ TimeSave™ means that when the mains return to normal, the unit checks the duration of the OFF time. If the unit has been off for more than the standard wait time, then it will reconnect the mains within 10 seconds. This ensures the Sollatek unit will give you more vital working time than any other stabiliser. The duration of the start-up delay period varies between 10 seconds and 10 minutes, depending on the model. For refrigeration and air-conditioning equipment, a delay of 3-4 minutes is recommended. The 3-4 minute delay allows compressors to neutralise before re-starting.

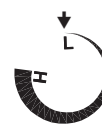


iSense™ function

The iSense™ technology allows you to control how sensitive the VOLTSHIELD Switcher reacts to voltage problems. Using the iSense™ dial you can set the desired level of protection.

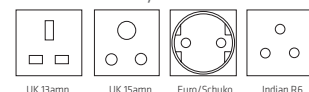


(H) High setting ensures greater protection by narrowing the acceptable voltage limits. This is ideal for users with less erratic mains supply that require better protection, typically in main cities where the power supply is fairly stable.



(L) Low setting ensures more working time as it will tolerate wider acceptable voltage limits. This is ideal for users with more erratic mains supply. This setting provides a wider window of acceptable voltage limits.

Socket availability



Single phase up to 7 amps

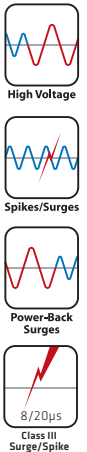
NotebookGuard Over voltage protection

PROTECTION AGAINST:

- High voltage
- Spikes/surges
- Power-back surges



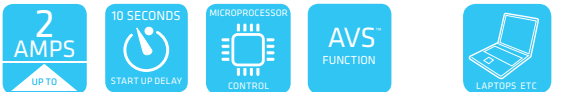
Max current	Figure 8: 1A, Cloverleaf: 2A
Voltage range	85 to 300V AC
Frequency	50/60Hz
Wait time	10 seconds
Ideal for	Notebooks, laptops and netbooks
Tip	Disconnects the mains when it is bad, allowing the notebook's battery to take over, effectively operating as a UPS. Can be used with any equipment and not only notebooks as long as you don't exceed 3Amps
Weight	Cloverleaf: 113gm. Figure 8: 100gm
Dims	116 x 32 x 29 mm
Cable length	116 mm



Plug/socket availability



Features



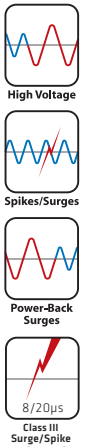
HivoltGuard Over voltage protection

PROTECTION AGAINST:

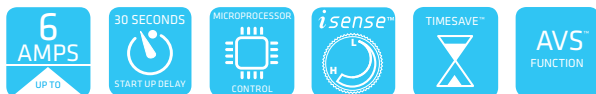
- High voltage
- Spikes/surges
- Power-back surges



Max current	6 amps
Wait time	30 seconds
Ideal for	TV, Video, Hi-fi, PABX, Fax machines and all electronic equipment up to 6 amps
Tip	Protects all sensitive equipment against high voltage, surges and spikes. A very useful protection for uninterruptible power supplies and inverters.
Weight	185gm
Dims	140 x 60 x 90 mm



Features



Protection for



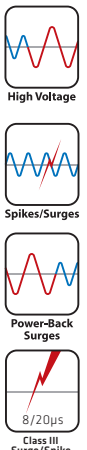
TVGuard Over voltage protection

PROTECTION AGAINST:

- High voltage
- Spikes/surges
- Power-back surges



Max current	6 amps
Wait time	30 seconds
Ideal for	TV, Video, Hi-fi, PABX, Fax machines and all electronic equipment up to 6 amps
Tip	To avoid frequent disconnection in areas of extreme fluctuation, add a stabiliser (see page 20) before the TVGuard
Weight	186 gm
Dims	140 x 60 x 90 mm



Features



Protection for



FridgeGuard

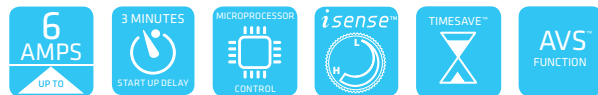
Under voltage protection

PROTECTION AGAINST:

- Low voltage
- Spikes/surges
- Power-back surges

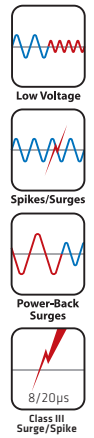


Features



Max current	6 amps
Wait time	3 minutes
Ideal for	Fridges and domestic freezers
Tip	Low voltage is particularly damaging to the compressor of fridges and freezers. 3 minutes wait for re-connection to allow for decompression of the compressor
Weight	186 gm
Dims	140 x 60 x 90 mm

Protection for



VoltGuard

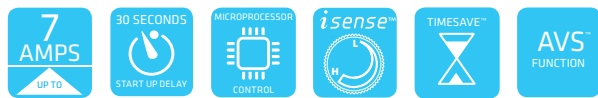
Over and under voltage protection

PROTECTION AGAINST:

- Low voltage
- Spikes/surges
- Power-back surges

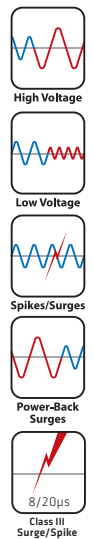


Features



Max current	7 amps
Wait time	User adjustable 3 minutes or 30 seconds
Ideal for	TV, Video, Hi-fi, PABX, Fax machines, Fridges and domestic freezers and all electronic equipment up to 7 amps
Tip	Covers all applications as it has over and under voltage protection
Weight	190 gm
Dims	140 x 60 x 90 mm

Protection for



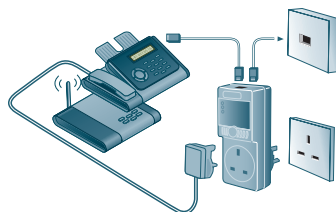
Single phase + telecom up to 6 amps

LightningGuard

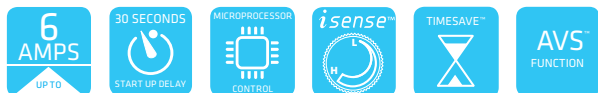
Over voltage protection and data/telecom line protection

PROTECTION AGAINST:

- High voltage
- Spikes/surges
- Power-back surges
- Data line spike surges/lightning (for telephone/modem/fax lines)

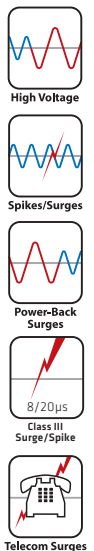


Features



Max current	6 amps
Mains surge/ spike protection	160 Joules
Mains surge/ spike discharge	6.5kA (8/20µs)
Wait time	30 secs
Data surge/ spike discharge	>5kA
Ideal for	Modem, fax, telephones, routers
Tip	Ideal for protection of computer data, internet, modems, fax machines and telephones. Lightning and mains surges and spikes can enter the telephones and cause damage to hardware and data. Being connected to the internet for long periods increases the risk of damage. The LightningGuard provides an effective way of preventing serious damage.
Socket availability	Mains + telephone connection (RJ11)
Weight	195 gm
Dims	140 x 60 x 90 mm

Protection for



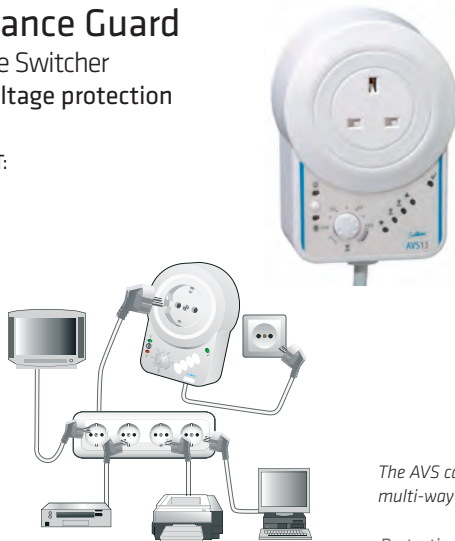
Single phase 13-25 amps

AVS13 Appliance Guard

Automatic Voltage Switcher
Over and under voltage protection

PROTECTION AGAINST:

- High voltage
- Low voltage
- Spikes/surges
- Power-back surges



Max current	13 amps
Wait time	User adjustable from 10 seconds to 3 minutes
Ideal for	All electrical and electronic equipment
Tip	Can protect a number of appliances using a multi-way socket.
Weight	500 gm
Dims	145 x 100 x 55 mm

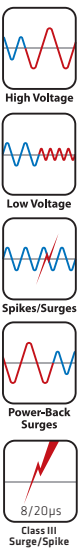
The AVS can protect a number of appliances, using a multi-way socket (see page 17).

Features

13 AMPS UP TO | ADJUSTABLE START UP DELAY | MICROPROCESSOR CONTROL | TIMESAVE | AVS™ FUNCTION

Protection for

ALL EQUIPMENT INCLUDING | MONITORS | LAPTOPS | MEDIA CENTRES | FRIDGES | COOLERS | SATELLITE & VSAT



AVS13RL Appliance Guard

Automatic Voltage Switcher
+ RFI & lightning protection
Over and under voltage protection

PROTECTION AGAINST:

- High voltage
- Low voltage
- Spikes/surges
- Power-back surges
- RFI (radio frequency interference) and noise
- Lightning



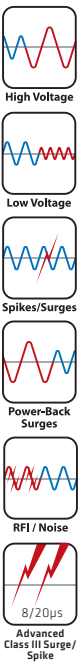
Max current	13 amps
Wait time	User adjustable from 10 seconds to 3 minutes
Attenuation(db):	20@100Khz, 50@1Mhz
Ideal for	All electrical and electronic equipment
Tip	AVS13RL adds RFI & noise and lightning protection to the standard AVS13. Use this product if you are in area where lightning is a serious issue, or you need to filter the power supply from RFI & noise.
Weight	500 gm
Dims	145 x 100 x 55 mm

Features

13 AMPS UP TO | ADJUSTABLE START UP DELAY | MICROPROCESSOR CONTROL | TIMESAVE | AVS™ FUNCTION

Protection for

ALL EQUIPMENT INCLUDING | MONITORS | LAPTOPS | MEDIA CENTRES | FRIDGES | COOLERS | SATELLITE & VSAT



AVS15 Aircon Guard

(Automatic Voltage Switcher)
Over and under voltage protection

PROTECTION AGAINST:

- High voltage
- Low voltage
- Spikes/surges
- Power-back surges



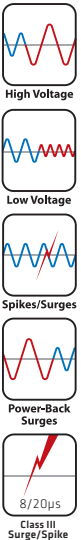
Max current	15 amps
Wait time	User adjustable from 2 minutes to 5 minutes
Ideal for	Air conditioners, large fridge/freezers
Tip	Rated at 15 amps for use with air-conditioners up to 17,500 B.T.U
Weight	500 gm
Dims	145 x 100 x 55 mm

Features

15 AMPS UP TO | ADJUSTABLE START UP DELAY | MICROPROCESSOR CONTROL | TIMESAVE | AVS™ FUNCTION

Protection for

A/C | FREEZERS | COOLERS



SMC Multifunctional Controller Din Rail Voltage Protection

PROTECTION AGAINST:

- High voltage
- Low voltage
- Spikes/surges



Sollatek's Multifunction Controller (SMC) is a Din rail version of the Sollatek AVS. It monitors single phase AC voltage and will disconnect the power when voltage is outside acceptable limits. It will reconnect automatically when the voltage returns to normal. There is a user settable delay before restarting.

The SMC offers extensive programmable features and variety of options.

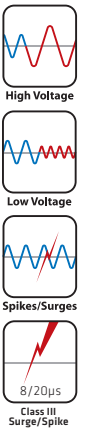
Some of the main features include frequency error protection, burn-out and over-voltage protection, and intelligent time delay startup (depending on model).

Max current	20 amps
Frequency error range detection	35-75 Hz
Operating voltage	90V to 300V
Low voltage protection (LVD)	50V to 300V
High voltage protection (HVD)	50V to 300V
Tip	Programmable startup delay (0-1000hr range) Operation status indication, up to 5 LEDs All variables are programmable through a proprietary Sollatek programming key

Protection for



Features



Sollatek Product Programmer (SPP)

Using the SPP, the Sollatek SMC's parameters can be configured to suit the application. LVD, HVD, Delay etc, can all be programmed.

A/C Guard (Automatic Voltage Switcher) Over and under voltage protection

PROTECTION AGAINST:

- Overload
- High voltage
- Low voltage
- Spikes/surges
- Power-back surges



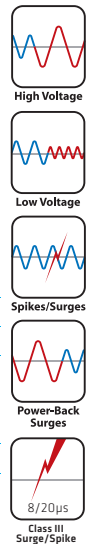
A/C Guard switches off your air conditioner instantly when a power problem occurs, and only reconnects it once the mains supply has stabilised. An integral circuit breaker enhances the protection offered by A/C Guard. If a short circuit or overload occurs, the circuit breaker detects the fault and the air conditioner is safely disconnected.

Max power	16, 20, or 25 amps
Wait time	4 minutes intelligent time delay
Ideal for	Air conditioners, large fridge/freezers
Tip	Rated at up to 25 amps for use with air conditioners. Direct wiring adds security of installation
Weight	400 gm
Dims	140 x 98 x 78 mm

Features



Protection for



* Dependent on model

Single phase 30-100 amps

AVS30 Appliance Guard

(Automatic Voltage Switcher)
Over and under voltage protection

PROTECTION AGAINST:

- High voltage
- Low voltage
- Spikes/surges
- Power-back surges



Max power	30 amps
Wait time	User adjustable from 10 secs to 10 mins
Ideal for	Air-conditioners, large fridge/freezers, whole office, and complete circuits
Tip	Rated at 30 amps for use with air-conditioners. Direct wiring adds security of installation
Weight	500 gm
Dims	210 x 132 x 53 mm



High Voltage



Spikes/Surges



Power-Back Surges



8/20µs Class III Surge/Spikes

Features

30 AMPS UP TO | IP41 INGRESS PROTECTION | ADJUSTABLE START UP DELAY | MICROPROCESSOR CONTROL | TIMESAVE | AVS™ FUNCTION

Protection for

ALL EQUIPMENT INCLUDING | WHOLE BUILDINGS | A/C | FREEZERS | FRIDGES | COOLERS

AVS100

(Automatic Voltage Switcher)
Over and under voltage protection

PROTECTION AGAINST:

- High voltage
- Low voltage
- Spikes/surges
- Power-back surges



Max power	100 amps
Wait time	User adjustable from 10 secs to 10 mins
Ideal for	Air-conditioners, large fridge/freezers, whole office
Tip	Rated at 100 amps for use with a number of air-conditioners and/or whole office or factory. Direct wiring adds security of installation
Socket availability	None. Direct wiring
Weight	6 kg
Dims	300 x 180 x 155mm



High Voltage



Spikes/Surges



Power-Back Surges



8/20µs Class III Surge/Spikes

Features

100 AMPS UP TO | IP55 INGRESS PROTECTION | ADJUSTABLE START UP DELAY | MICROPROCESSOR CONTROL | TIMESAVE | AVS™ FUNCTION

Protection for

ALL EQUIPMENT INCLUDING | WHOLE BUILDINGS | A/C | FREEZERS

Three phase 23-1250 amps

AVS303 (3 Phase Automatic Voltage Switcher AVS303-xx) (xx=Amps per phase) Over and under voltage protection

The AVS303 protects against over voltage and under voltage on any one of the three phases as well as loss of one or more phases. Indication and/or disconnection as a result of mains frequency error of phase sequence error is available as an option. The AVS303 incorporates a contactor to switch the full load current (see the AVS3P-0 if you already have switching mechanism in place). The AVS303-xx is available in different sizes ranging from 23 amps to 1250 amps (the -xx relates to the model number, eg. AVS303-23 is a 23 amp per phase AVS303).

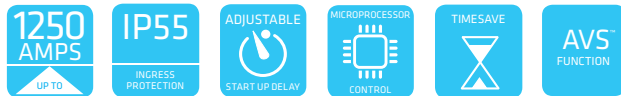
PROTECTION AGAINST (on any or all phases):

- High voltage
- Low voltage
- Spikes/surges
- Power-back surges
- Any two phases shorting together



Max power	From 23 amps per phase and up to 1250 amps
Wait time	User adjustable from 10 secs to 10 mins
Ideal for	3 Phase air conditioning, industrial refrigeration and industrial plants and machinery
Tip	At a reasonable cost and almost a fraction of that of the equipment, the AVS303 will provide full protection
Socket availability	Direct wiring – standard 3 phase connections
Weight	Dependent on model number
Dims	Dependent on model number

Features



Protection for



High Voltage



Low Voltage



Spikes/Surges



Power-Back Surges



8/20µs Class III Surge/Spikes

AVS3P-0 (3 Phase Automatic Voltage Switcher control) Over and under voltage protection

Protects from over voltage and under voltage on any one of the three phases as well as loss of one or more phases. Indication and/or disconnection as a result of mains frequency error or phase sequence error is available as an option. Unlike the AVS303, the AVS3P-0 is designed to operate an external control circuit or contactor which may be part of a motor starter or other equipment. The AVS3P-0 has a volt-free change over contact as an output.

PROTECTION AGAINST (on any or all phases):

- High voltage
- Low voltage
- Spikes/surges
- Power-back surges
- Loss or duplication of any phase



Max power	Controls an external 3 phase controller or contactor of any size
Wait time	User adjustable from 10 secs to 10 mins
Ideal For	3 phase air conditioning, industrial refrigeration and industrial plants and machinery
Tip	The AVS3P-0 has an uncommitted changeover relay output providing normally open and closed contacts rated at 16 amps that can be used to drive external alarms contactors and loads
Socket availability	Direct wiring – standard 3 phase connections
Weight	500 gm
Dims	210 x 132 x 53 mm

Features



Protection for



High Voltage



Low Voltage



Spikes/Surges

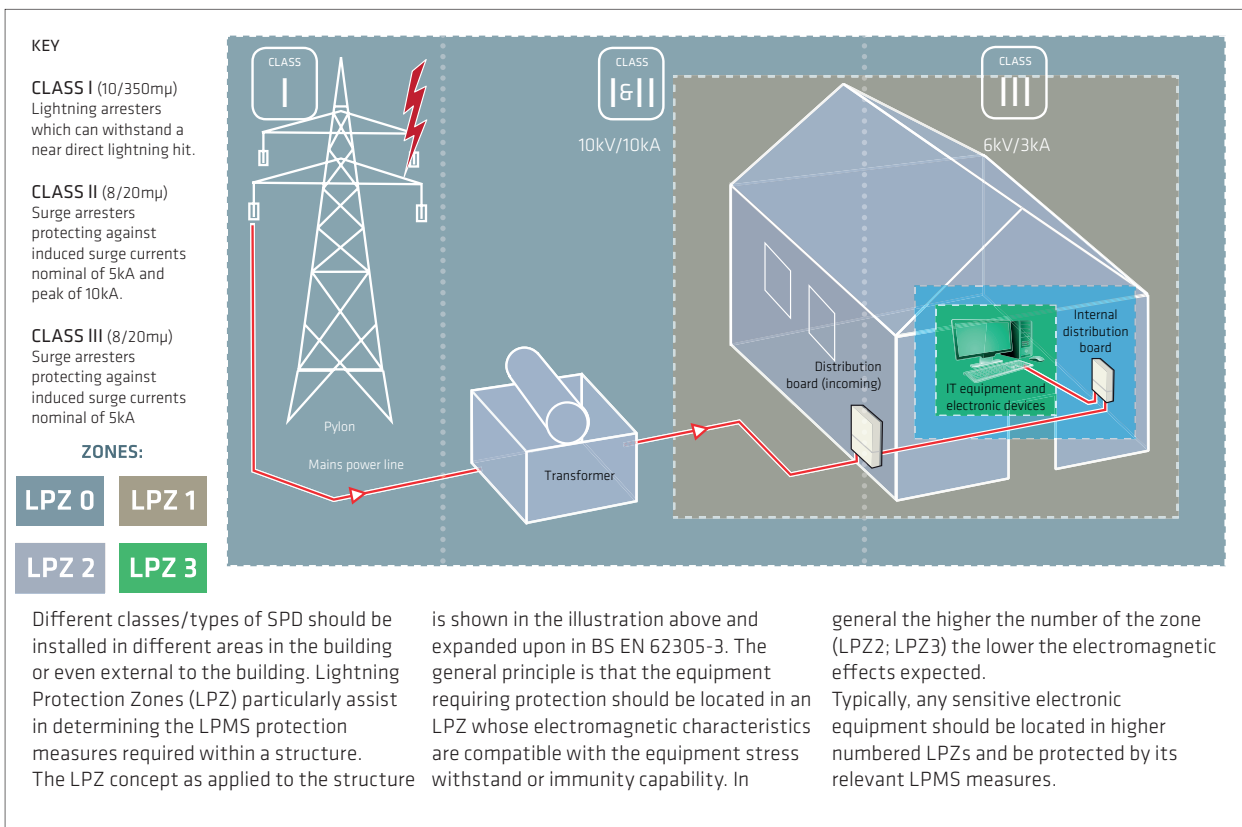


Power-Back Surges



8/20µs Class III Surge/Spikes

Voltsafe™ Suppressors are devices that protect against surges, spikes, lightning and in some cases RFI (Radio Frequency Interference) and noise. Surge/Spikes is a rise or peak in voltage up to thousands of volts and lasts for very short period of time (milliseconds). These powerful events can eventually blow out microscopic holes in electronic circuitry causing severe damage or failure. Unlike over-voltage, which lasts longer (milliseconds to seconds to minutes or even hours), you do not need to switch off the mains to protect against surges and spikes. Clamping to a safe level is the method of protection. The level of protection is best measured in joules and there is no complete protection here but the more joules of protection available the less possibility of damage. A standard surge protector can absorb about 140Joules. Other factors are important, as in the speed of response, availability of earthing, etc. RFI and noise is generated by nearby equipment such as elevators, motors, radio controlled equipment, etc. Whilst surges/spike protection is incorporated in almost all of the Sollatek range of products, Sollatek in addition manufactures the Suppressor range solely for protection against these events.



Single phase up to 13 amps - mains supplies

MultiGuard (MG) Spike/surge protection

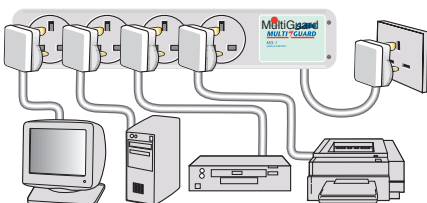
PROTECTION AGAINST

- Spikes/surges



Socket availability

UK 13amp



Max current	13 amps
Ideal for	All electronic appliances
Tip	Especially useful for computers and ideal for home use with TV, home theatre
Response time	<10 nanoseconds
Total energy rating	660 joules
Max surge current	6.5kA amps
Weight	500 gm

Product	Neon	Spike	LED	Switch	Outlets UK 13A	Cable length	Dimensions (mm)
MS-4U			•		4	1.5m	327 x 62 x 35
MG-4U	•	•			4	1.5m	327 x 62 x 35
MG-4UP		•	•	•	4	3m	327 x 62 x 35

Features



Protection for



CLASS III

RFI / Noise

Spikes/Surges

Class III Surge/Spikes

Single phase up to 13 amps - mains supplies

MultiGuard (MGX) Spike/surge protection

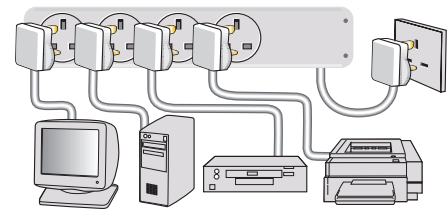
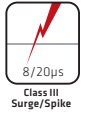
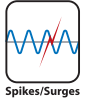
PROTECTION AGAINST

- Spikes/surges



Max current	13 amps
Ideal for	All electronic appliances
Tip	Especially useful for computers and ideal for home use with TV, home theatre
Response time	<10 nanoseconds
Total energy rating	220 joules
Max surge current	6.5kA
Weight	Dependent on model

Product	Plug	Socket	Outlets	Cable Length	Switch	Dims (mm)
MSX-4U	UK	UK	4	1.5m	No	327 x 62 x 35
MGX-4U	UK	UK	4	1.5m	No	327 x 62 x 35
MGX-6U	UK	UK	6	3m	No	370 x 58 x 31
MGX-4UP	UK	UK	4	1.8m	1	327 x 62 x 35
MGX-6UP	UK	UK	6	1.8m	1	370 x 58 x 31
MGX-5SP	Schuko	Schuko	5	1.8m	1	283 x 50 x 41
MGX-W4U	UK	WS	4	1.5m	No	327 x 62 x 35
MGX-W6U	UK	WS	6	1.5m	No	370 x 58 x 31
MGX-W4S	Schuko	WS	4	1.5m	No	327 x 62 x 35
MGX-W6S	Schuko	WS	6	1.5m	No	370 x 58 x 31
MGX-4UB	UK	UK	4	1.5m	No	327 x 62 x 35
MGX-5SB	Schuko	Schuko	5	1.5m	No	283 x 50 x 41



Features



Protection for



Socket availability



PureAC Spike/surge and RFI protection

Protection against:

- Spikes/surges
- RFI (radio frequency interference) and noise

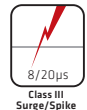
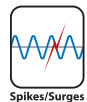
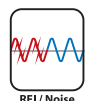


Max power	Dependent on model (up to 13 amps)
Ideal for	All electronic appliances
Tip	Especially useful for computers and telecommunication equipment like switchboards (PABX), telephones, modems and computers
Protective mode	L-N, L-E, N-E
Response time	<10 nanoseconds
Total energy rating	480 joules
Max surge current	6.5kA (8/20µs)
Typical attenuation	50dB @ 10MHz
Weight	185 gm
Dims	140 x 60 x 90 mm

Features



Protection for



Single & three phase - mains distribution systems

Voltsafe™ DSP range - The Distribution Surge Protector, available in single and 3 phase models - is the first choice for high capacity surge protection. This range is ideally suited to the protection of both entire distribution boards and equipment in domestic and industrial environments. The DSP utilises Metal Oxide Varistor (MOV) technology in its highly reliable protection circuits to ensure that your house, site, facility or plant is completely protected. Fully automatic in operation, DSP is engineered to react immediately, clamping voltage surges generated either internally or externally to a safe level, improving equipment reliability and reducing overall system downtime.

Single Phase – direct wiring

DSP1P-20-T2 Mains spike/surge protection

A directly wired surge protection device (SPD) offering Class II protection.

Maximum surge current handling capabilities of 20KA with a maximum let through voltage of 750Vac.

Ideally suited to the protection of both entire distribution boards and equipment in domestic and industrial environments. Features LED indication of protection status and requires no operator intervention or maintenance.



Max surge current per pole (Imax):	20kA
Max operating voltage per pole (Uc):	810V
Voltage protection level (Up):	1.5kV
Fault indication	LED
Remote contacts	No
Weight	500gm
Dims	183 x 133 x 53 mm



Features



Protection for



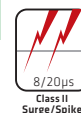
Three Phase – direct wiring

DSP3P-80-T2 Mains spike/surge protection

Directly wired 3 Phased Class II SPD offering current handling capabilities of 20KA per phase with a maximum let through voltage of 750Vac. Ideally suited to the protection of both entire distribution boards and equipment in domestic and industrial environments. Features LED indication of protection status and requires no operator intervention or maintenance.



Max surge current per pole (Imax):	20kA
Max operating voltage per pole (Uc):	310V
Voltage protection level (Up):	1.5kV
Fault indication	LED
Remote contacts	No
Weight	500gm
Dims	183 x 133 x 53 mm



Features



Protection for



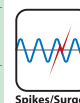
Single Phase – Din rail

DSP1P-25DM-T1+T2 Mains spike/surge protection

The Sollatek DSP1P-25DM-T1+T2 is a Type I & II combined surge protection device. This highly efficient lightning surge arrester is suitable for all installations where risk of surge and spike activity is particularly high, as in telecom installations, oil rigs, and open exposed areas with metal structures. The unit is a 2-pole device that provides 25kA (Type I, 10/350µs) protection per pole and up to 30kA per pole for everyday surge activity (Type II, 8/20µs). It is housed in a compact 35mm din rail mount enclosure. The Sollatek DSP1P-25DM-T1+T2 is the ideal solution for protecting all sensitive electronic equipment.



Phase	1
Type	Type I&II
Nominal discharge current (8/20 µs)/pole [In]	30kA
Maximum discharge current (8/20 µs)/pole [Imax]	N/A
Unit's total kA	120kA (8/20µs) / 50kA (10/350µs)
Voltage protection level [Up]	1.5kV
Impulse discharge Current (10/350u/pole) [Iimp]	25kA



Spikes/Surges

Features



Protection for

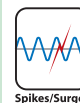


DSP1P-40DC-T2 Mains spike/surge protection

The Sollatek DSP1P-40DC-T2 is a Type II surge protection device. This surge arrester is suitable for all installations where risk of surge and spike activity is particularly high. This unit is suited to installation in distribution panels in LP22. This unit provides 40kA (Imax) for every day surge activity. It is housed in a compact 35mm din rail mount enclosure. The Sollatek DSP1P-40DC-T2 is an ideal protection for all sensitive electronic equipment



Phase	1
Type	Type II
Nominal discharge current (8/20 µs)/pole [In]	20kA
Maximum discharge current (8/20 µs)/pole [Imax]	40kA
Unit's total kA	40kA
Voltage protection level [Up]	1.25kV



Spikes/Surges

Features



Protection for

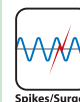
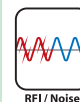


DSP1P-10DR-T2+T3 Mains spike/surge protection

The Sollatek DSP1P-10DR-T2+T3 is a Type II&III surge protection device. This highly efficient lightning surge arrester is suitable for all installations where risk of surge and spike activity is particularly high, as in telecom installations, PLCs, IT equipment, where risk of RFI & Noise is high. This unit will protect against surges & spikes up to 10kA and with added RFI filtering. Should be installed in-line for maximum protection and is rated at a maximum of 10Amps. Ideal for installation on a din rail in PLCs and system panels.



Phase	1
Type	Type III
Nominal discharge current (8/20 µs)/pole [In]	3kA
Maximum discharge current (8/20 µs)/pole [Imax]	10kA
Unit's total kA	10kA
Voltage protection level [Up]	1kV/0.8kV
RFI filtering	t _a 0.1 - 30 Mhz



Spikes/Surges

Features



Protection for



Three Phase – Din rail

DSP3P-100DM-T1+T2

Mains spike/surge protection

The Sollatek DSP3P-100DM-T1+T2 is a Type I & II surge 3 Phase protection device. This highly efficient lightning surge arrester is suitable for all installations where risk of surge and spike activity and, particularly due to nearby lightning activity, is high, as in telecom installations, oil rigs, and open exposed areas with metal structures. This unit should be installed in all building and sites at high risk (where a Lightning Protection System is in place and there is risk to human life such as schools, hospitals etc), and especially in climates where storms are frequent (NG > 25) or in the presence of overhead electric lines.

The unit is a 4-pole device that provides 25kA (Type I, 10/350µs) protection per pole.

It also combines Type II protection @ 70kA per pole.



Phase	3
Type	Type I&II
Nominal discharge current (8/20 µs)/pole [In]	30kA
Maximum discharge current (8/20 µs)/pole [Imax]	70kA
Unit's total kA	240kA (8/20µs) / 100kA (10/350µs)
Voltage protection level [Up]	1.5kV
Impulse discharge Current (10/350u/pole) [Iimp]	25kA



Features



Protection for



DSP3P-40DMC-T2

Mains spike/surge protection

The Sollatek DSP3P-40DMC-T2 is a Type II surge protection device. Constructed in a simple modular and cartridge design where the active module can be easily changed without removing the unit. It is an efficient surge arrester suitable for all installations where risk of surge and spike activity is particularly high. The unit is a 4-pole device that provides 20kA (Type II) per pole.



Phase	3
Type	Type II
Nominal discharge current (8/20 µs)/pole [In]	20kA
Maximum discharge current (8/20 µs)/pole [Imax]	40kA
Unit's total kA	40kA
Voltage protection level [Up]	1.25kV



Features



Protection for



Stabilisers (also known as regulators) stabilise the incoming power supply providing constant voltage to the equipment. Sollatek manufactures two different ranges of stabilisers:

SVS (Sollatek Voltage Stabilisers) range.

AVR (Automatic Voltage Regulators) range.

The table opposite is a brief comparison between the two ranges.

AVR AND SVS COMPARISON		
	AVR	SVS
Control	Microprocessor	Microprocessor
Switching	Taps/Triacs	Taps/Relays
Speed of correction	1250V/S	750V/S
Input range	-30% to +22%	-26% to +19%
Output accuracy	+/-4%	+/-6%
AVS function	No	Yes. (Disconnects the mains supply if the input varies outside pre-set limits and reconnects automatically. For a 230V system these are below 145V or above 290V)
AVS applications	Refer to page 10 for AVS description	
Weight (of a 2Amp unit)	About 5Kg	About 2Kg
Suitable for	All electrical and electronic equipment. However if the price doesn't justify it, then use with only sensitive equipment Like HI-FI, Video, TV, Lab equipment, etc.	All electrical and electronic equipment. If wider input and more accurate output control is desired then use the AVR.

Economy Range - Right

Description

As both high and low mains voltage can damage your electrical equipment, the Sollatek TVRight, FridgeRight and A/CRight are designed to monitor and correct the incoming supply continuously. If the voltage rises or drops, they will correct the output to ensure that the voltage reaching your equipment remains within the operating range of the the appliances connected to them.

The Sollatek TVRight, FridgeRight and A/CRight are easy to use, with a red LED indicating a problem with the voltage input, and a green LED indicating good input, and have an on/off switch to power the unit.

Applications

Suitable for all electrical and electronic appliances, including: washing machines, computers, fridges, TV, and satellites, and A/C units .

Single phase up to 2 amps

TVRight

Voltage regulation and stabilisation

PROTECTION AGAINST:

- High voltage
- Spikes/surges
- Power-back surges



The TVRight & FridgeRight will ensure that high and low voltage is stabilised to a safe working level for your appliance to operate properly. They will also protect it by disconnecting the power when it reaches a very high or very low level.

- Wide input voltage range
- Stabilises the power to ensure longer working time
- Incorporates circuit breaker
- Over voltage & under voltage disconnect
- Startup delay (10sec TVRight, 3min FridgeRight)

FridgeRight

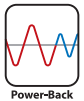
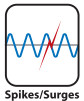
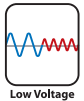
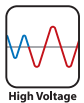
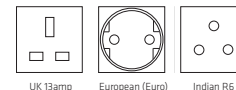
Voltage regulation and stabilisation

PROTECTION AGAINST:

- High voltage
- Low voltage
- Spikes/surges
- Power-back surges



Socket availability



Model	Amps	Range	Sockets	Delay	Weight	Dims
TVRight 20M	2A	120V-290V	UK/Indian/EU	10Sec	1.4Kg	114 x 116 x 183
FridgeRight 450M	2A	130V-290V	UK/Indian/EU	3Min	1.4Kg	114 x 116 x 183

Features



Protection for



depending on model

ACRight Voltage regulation and stabilisation

PROTECTION AGAINST:

- High voltage
- Low voltage
- Spikes/surges
- Power-back surges



The ACRight will ensure that low voltage and high voltage is brought to a safe working level for your air conditioner to operate properly and to cool efficiently. It will also protect it by disconnecting the power when it rises to a very high level or drops to a very low level. A built in startup delay will protect against power back surges and prevent frequent switching on and off due to fluctuations.

- Wide input voltage range
- Excellent output voltage stability
- Incorporates circuit breaker
- 3 minute startup delay

Model	Amps	Range	Sockets	Delay	Weight	Dims
ACRight 120M	12A	180-250V	Direct Wire	3Min	3Kg	104 x 117 x 256
ACRight 150L	15A	152-270V	Direct Wire	3Min	3Kg	104 x 117 x 256

Features



Protection for



High Voltage



Low Voltage



Spikes/Surges



Power-Back Surges



8/20µs
Class III
Surge/Spike

Standard Range - SVS

The Sollatek SVS monitors the mains voltage continuously. If the voltage rises or drops, the SVS will stabilise the output to ensure the voltage reaching your equipment remains constant at 230V (+/-6%), within the operating range of the unit. If the input voltage falls below 142V or rises above 295V, the SVS will disconnect the output, thereby protecting the load. Once the mains voltage returns again within

acceptable limits, the SVS will reconnect the output following a start up delay.

(All above voltages are for a 220/230V system.

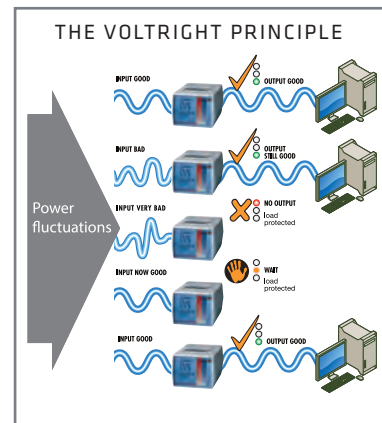
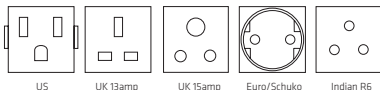
For other voltages contact Sollatek.)

Protection:

- Microprocessor controlled stabiliser
- Very wide input voltage range
- Excellent output voltage stability (+/-6%)
- Includes surge and spike suppression
- Extremely fast response

- Incorporates over voltage & under voltage disconnect
- 10 second start-up delay as standard (modifiable)
- Incorporates TIMESAVE™ function. *See page 10*
- British design

Socket availability



Single phase up to 16 amps

Sollatek Voltage Stabiliser (SVS) Over and under voltage stabilisation protection

PROTECTION AGAINST:

- High voltage
- Low voltage
- Spikes/surges
- Power-back surges



MODEL	Amps	VA@240V	Socket	Weight (Kg)	Dims
SVS02-22	2	480	UK, EU, IND6	2.0	190 x 100 x 124
SVS04-22	4	960	UK, EU, IND6	3.0	190 x 100 x 124
SVS08-22	8	1920	UK, EU, IND6, UK15	5.0	270 x 387 x 160
SVS10-22	10	2300	UK, EU	5.0	162 x 132 x 275
SVS15-22	15	3600	EU, IND6, UK15	8.0	162 x 132 x 275
SVS16-22	16	3680	EU, IND6	8.0	162 x 132 x 275

Features



Protection for



High Voltage



Low Voltage



Spikes/Surges



Power-Back Surges



8/20µs
Class III
Surge/Spike

Single phase 20 - 75 amps

Sollatek Voltage Stabiliser (SVS)

Over and under voltage stabilisation protection

PROTECTION AGAINST:

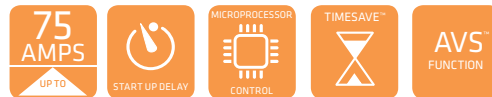
- High voltage
- Low voltage
- Spikes/surges
- Power-back surges



MODEL	Amps	VA@240V	Socket	Weight (Kg)	Dims
SVS20-22 C	20	4800	Cable	14.0	162 x 132 x 275
SVS20-22 T	20	4800	Terminal	14.0	162 x 132 x 275
SVS20-22 WM*	20	4800	Terminal	29.0	300 x 200 x 280
SVS50-22 WM*	50	12000	Direct wiring	29.0	330 x 330 x 440
SVS75-22 WM*	75	18000	Direct wiring	38.0	330 x 330 x 440

* Wall mountable units

Features



Protection for



Three phase SVS models are available. Refer to Sollatek for more details



High Voltage



Low Voltage



Spikes/Surges



Power-Back Surges



Class III Surge/Spikes

Wide Input Range - SVS

Single phase up to 4 amps

Sollatek Voltage Stabiliser (SVS04E-22)

Over and under voltage stabilisation protection

NEW

PROTECTION AGAINST:

- High voltage
- Low voltage
- Spikes/surges
- Power-back surges



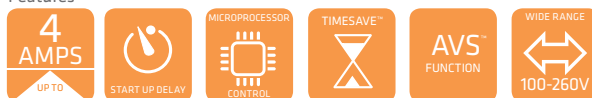
As both high and low mains voltage can damage your electrical equipment, the Sollatek SVS is designed to monitor and correct the incoming supply continuously.

The Sollatek SVS04E boasts a very wide input voltage range providing a much needed boost in areas of very low voltage. The SVS04E will operate from 100V to 290V and has a modern state of the art digital display to indicate accurately the state of the input at all times

MODEL	Amps	VA@240V	Socket	Weight (Kg)	Dims	Socket availability
SVS04E-22	4	1000	Plug	8	193 x 100 x 124	Schuko, 15A

For full specifications and part numbers please refer to the Sollatek Voltright SVS Range brochure.

Features



Protection for



High Voltage



Low Voltage



Spikes/Surges



Power-Back Surges



Class III Surge/Spikes

Professional Range - AVR

The Sollatek AVR is a state of the art solid state stabiliser. Using microprocessor technology, the AVR will rapidly detect voltage variations and correct the output to ensure 230V (+/-4%) supply. The Sollatek AVR has a very wide input range (-30% to +22%) and a voltage correction speed of 1250 Volts per second. No mechanical parts means that the AVR doesn't require maintenance and will not be affected by dusty environments as other mechanical (for example Servo type) stabilisers.

Features:

- Microprocessor controlled - high speed response
- Stabilises output to within +/-4%
- Corrects input change of more than -30% to +22%
- A staggering 1250V/second correction speed
- Rapid response time of within 15 milliseconds
- Sizes available: from 1 amp single phase up to 3000 amps per phase - three phase
- Ideal for sensitive electronic office equipment, computers, TV & video, electronic medical and laboratory equipment, and telecom applications
- Suitable for all applications for domestic and office use
- Built into an attractive housing to blend with modern equipment
- LED display - shows Input voltage level, output voltage level, Load current and overload
- Overload protection - by measuring the load current, the AVR will switch the unit off if the current exceeds the AVR's rating

Single phase up to 10 amps

Automatic Voltage Regulator (AVR) Over and under voltage stabilisation protection

The Sollatek single phase AVRs are suitable for all applications for domestic and small office use. This range of AVRs is built into an attractive and modern enclosure to blend in with modern equipment.

PROTECTION AGAINST:

- High voltage
- Low voltage
- Spikes/surges



Model	Amps	Voltage	VA	Weight (Kg)	Dims (mm)	Socket availability
AVR01-22	1	230	230	4	193 x 100 x 124	UK, EU, IND6
AVR02-22	2	230	460	5	193 x 100 x 124	UK, EU, IND6
AVR05-22	5	230	1150	12	277 x 133 x 161	UK, EU, IND6
AVR10-22	10	230	2300	15	336 x 212 x 179	UK, EU, IND6

For full specifications and part numbers please refer to the Sollatek Voltright AVR Range brochure.

Features



Protection for



High Voltage



Low Voltage



Spikes/Surges



8/20µs Class III Surge/Spike

Single phase 20 to 400 amps

Automatic Voltage Regulator (AVR) Over and under voltage stabilisation protection

Features:

- Suitable for large applications covering a small office to an entire apartment or house or even a small workshop
- LCD display (optional on certain models) shows input voltage level, output voltage level, load current and overload

PROTECTION AGAINST:

- High voltage
- Low voltage
- Spikes/surges



Model	Amps	Voltage	kVA	Weight (Kg)	Dims (mm)
AVR20-22	20	230	4.6	40	347 x 215 x 520
AVR30-22	30	230	6.9	55	347 x 215 x 520
AVR40-22	40	230	9.2	60	347 x 215 x 520
AVR50-22	50	230	11.5	82	350 x 350 x 585
AVR75-22	75	230	17.2	100	350 x 350 x 585
AVR100-22	100	230	23.0	114	350 x 350 x 585
AVR300-22	300	230	69.0	382	1200 x 680 x 1030
AVR400-22	400	230	92.0	423	1200 x 680 x 1030

For full specifications and part numbers please refer to the Sollatek Voltright AVR Range brochure.

Features



Protection for



High Voltage



Low Voltage



Spikes/Surges



8/20µs Class III Surge/Spike

Three phase 20 amps up to 3000 amps (2mVA) per phase

Automatic Voltage Regulator (AVR) Over and under voltage stabilisation protection

PROTECTION AGAINST:

- High voltage
- Low voltage
- Spikes/surges



Larger sizes available. Refer to Sollatek for details

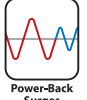
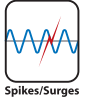
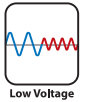
The Sollatek three phase AVR is made of three identical single phase regulator units providing independent control. The three phase range boasts the same standard features with one of the widest ranges as standard in the industry. Numerous options are available, making the three phase range a very comprehensive source of secure, stable power.

Features:

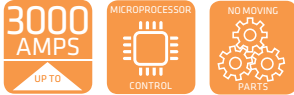
- Input range: -30% to +22% as standard. (narrower range is available on request - +/- 15%)
- AVS option provides added protection against extremes of high and low voltages (optional). See page 10
- Input / output voltage and current meters (optional)
- Additional surge / spike suppression. Up to 3 x 1280 joules
- Manual by-pass switch (optional)

Model	Amps	Voltage	kVA	Weight (Kg)	Dims (mm)
AVR3x20-22	20	230/400	13.8	100	450 x 635 x 850
AVR3x30-22	30	230/400	20.7	150	450 x 635 x 850
AVR3x50-22	50	230/400	34.5	210	500 x 685 x 1060
AVR3x75-22	75	230/400	51.7	285	600 x 735 x 1110
AVR3x100-22	100	230/400	69.0	400	500 x 835 x 1280
AVR3x150-22	150	230/400	103.5	450	500 x 835 x 1280

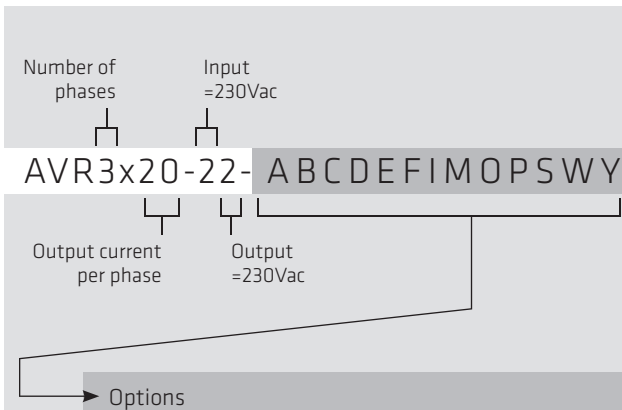
Up to 3000A per phase available



Features



Protection for



- A AVS
- B Input circuit breaker
- C Output circuit breaker
- D Class II surge and spike protection
- E Enhanced Input Voltage 90V
- F Phase selector
- I Isolating transformer
- M Digital meters
- O Outdoor enclosure (IP44)
- P Changeover switch
- S Class I & II lightning, surge and spike protection
- W Wide input voltage
- Y Manual bypass switch

Options

A number of options is available on the Sollatek 3 Phase AVR range:

- A) Automatic Voltage Switcher option (AVS™)** Provides over & under voltage protection and a reconnect delay after power back surges. See page 8 for more details.
- B & C) Input/output circuit breakers** Circuit breakers protect the load and the AVR from the harmful effects of over current. Recommended for all AVR installations.
- D) Class II surge and spike protection (8/20µ)**
- E) Enhanced input voltage range**, boosts incoming voltage from 90V to 220V instead of the standard.
- F) Phase Selector** Constantly monitors three phase voltage and supplies the best two phase to the AVR. In case of a lost phase the two remaining phases will be used.
- I) Isolating Transformer Option** The Sollatek AVR can be supplied with a built in Isolating Transformer. For more details, please refer to the Sollatek AVR brochure.
- M) Digital input/output voltage and current meters** The 3 Phase AVR can be ordered with meters to indicate the state of the input voltage to compare it with the output voltage. Current meters are useful to ensure that the load does not exceed the rating of the AVR.
- O) Outdoor Enclosure** For outdoor applications especially in the supply of stable power for GSM & Telecom stations, the Sollatek AVR can be provided in an IP44 enclosure.
- P) Change over switch** Manual switch that will bypass the incoming mains from the AVR directly to the load.
- S) Class I and II lightning, surge and spike protection (8/20µ and 10/350µs)**
- W) Wide input voltage range**, boosts incoming voltage from 120V to 220V instead of the standard.
- Y) Manual -Bypass switch** The function of the bypass switch option is to allow the user to remove a regulator from service whilst the load remains connected to mains power.

Power problems - surges, brownouts and utility failures - can place your business at great risk. The busier and more complex your computing network, the greater the risk. And if power failure means productivity loss, this threatens your company's performance and profitability - and perhaps even its very existence. Yet an uninterruptible power supply (UPS) is easy to install and its cost will be quickly recovered. Given the potential price of power failure, an effective UPS is indispensable.

Line -interactive range 400VA to 2000VA

The Sollatek Ultima Range - available in 400, 600, 800VA, 1000, 1400 and 2000VA ratings - is the perfect line interactive UPS for stand alone PCs and SoHo workstations. It protects your network equipment from power surges, brownouts and utility failures at a competitive cost. Its compact design features tighter output voltage and frequency regulation, RS232 and USB communications port, and modem/data line protection.

Power Management Software

The Sollatek Ultima LCD features the WinPower software; a powerful UPS monitoring tool which provides user-friendly interface to monitor and control your inverter system. This software provides complete power protection for your computer system while encountering power failure. With this software, users can monitor any UPS status on the same LAN. Furthermore, any UPS can protect any PC on the same LAN.

Ultima LCD Uninterruptible power supply



PROTECTION AGAINST:

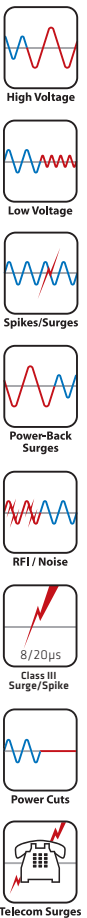
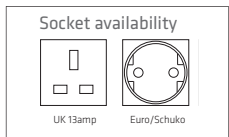
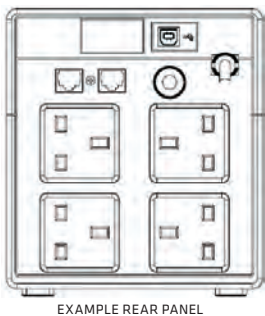
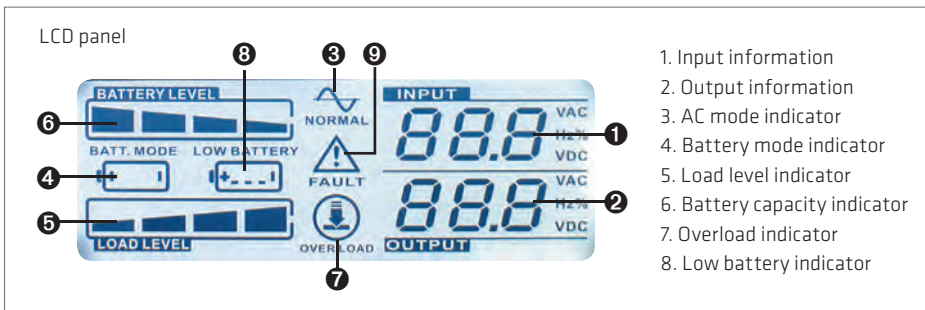
- High voltage
- Low voltage
- Spikes/surges
- Power-back surges
- RFI and noise
- Lightning
- Power cuts
- Telecom surges



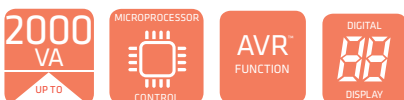
Model	Amps	kVA/Watt	Weight (Kg)	Dims (mm)
Ultima LCD 650	2.9	650VA/360W	4.25	287 x 100 x 142
Ultima LCD 850	3.8	850VA/480W	4.9	287 x 100 x 142
Ultima LCD 1000	4.5	1000VA/600W	8.0	350 x 146 x 160
Ultima LCD 1500	6.8	1500VA/900W	11.1	397 x 146 x 205
Ultima LCD 2000	9.0	2000VA/1200W	11.1	397 x 146 x 205

Features:

- Microprocessor controlled line interactive UPS
- Automatic Voltage Regulator (AVR) function with two boost and one buck taps.
- RS232 and USB communications port with software for controlling the PC for safe shutdown and UPS parameter reporting via user friendly interface
- Unique system for charging battery even during a brown out (If the load is off)
- Short circuit and overload protection
- Cold start feature for load shedding environments
- Bad battery detection and advance replacement notification (3 months ahead)
- Free power monitoring and PC shutdown software included
- Green power function for energy saving
- DC start function
- Auto restart while AC recovery
- Compact size and light weight



Features



Protection for



Maxima – Double Conversion Online UPS

Uninterruptible power supply

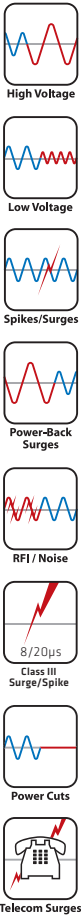
NEW



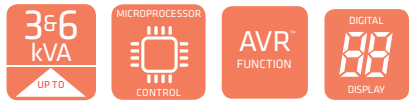
A true double conversion UPS, Maxima will provide clean, high level quality power to fully protect mission-critical devices such as sensitive networks, small computer centres, servers, telecom applications, as well as industrial applications.

Main features and benefits

- LCD readout displaying the voltage levels, battery charge and load level
- Standard output sockets allowing easy connectivity of home and audio appliances
- Built in stabiliser function with boost and buck
- Microprocessor controlled line interactive UPS
- Monitoring software for monitoring the PC and safe shutdown configuration
- Unique system for charging battery even during a brown out
- Short circuit and overload protection
- Cold start feature for load shedding environments
- Bad battery detection and advance replacement notification (3 months ahead)
- Green power function for energy
- Auto restart after power cuts
- Compact size and light weight



Features



Protection for



26

PowerBack PB850L

Uninterruptible power supply

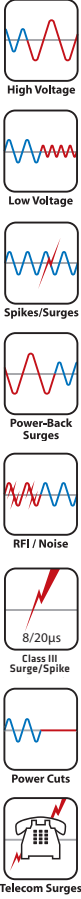


The Sollatek PowerBack L (Linear) series is a rugged range of inverters suitable for harsh power environments. It provides an emergency backup system that makes it possible for homes or offices to have continued access to electrical service during power outages.

The Sollatek PowerBack is a battery-based system that will provide simple and silent operation. Fully featured but also economic in design to provide back up power when needed most. Equipped with a powerful charger to ensure fast charging when AC mains is available.

Suitable for any office or home environment that has an emergency requirement for uninterrupted mains power.

- Office equipment and appliances, including lighting.
- Home appliances, including air conditioners and refrigeration.



Main features and benefits

- 850VA simulated sine wave inverter
- Selectable input voltage range for home appliances or personal computers
- Selectable charging current: 10A or 20A
- Auto restart while AC is recovering
- Overload and short circuit protection
- Generators & Computer-related devices compatible
- Cold start function

Features:



Protection for:



PowerBack PB1500L Uninterruptible power supply



Main features and benefits

- 1.5kVA simulated sine wave inverter
- Selectable input voltage range for home appliance or personal computers
- Selectable charging current: 10A or 20A
- Auto restart while AC is recovering
- Overload and short circuit protection
- Generators & Computer-related devices compatible
- Cold start function

Features:



Protection for:



depending on model

Built on the same design as the PB850L, the 1500L model allows the user to connect bigger loads, and connected to a 24V battery system, it can also provide more autonomy.

Suitable for:

Computers

Sever rooms

Lighting

Home appliances

Refrigeration appliances



High Voltage



Low Voltage



Spikes/Surges



Power-Back Surges



RFI/Noise



Class III Surge/Spike



Power Cuts



Telecom Surges

PowerBack PB5000S and PB3000S (High Frequency range) Inverter/Charger

NEW



Main features and benefits

- Solar charging input up to 3750Wp (*depending on model*)
Selectable charging current up to 25Amps (*depending on model*)
- Suitable for all type of appliances and electrical and electronic equipment
- Elegant modern design
- Compact size (excluding batteries and installation accessories)
- Highly efficient back up when critically needed.
- Clean, reliable, Pure Sinewave power

The Sollatek PowerBack S range - is an inverter/charger unit that will accept Mains as well as Solar charging. This Linear/Transformer-less range is suitable for high performance applications and is especially useful in remote areas where mains charging is scarce and solar availability is abundant. The PowerBack can provide mains-like power for all your essential appliances and lights. The PowerBack charges the batteries when mains power is available.

The backup time the PowerBack can provide in a power cut depends on its overall capacity (determined by the number of the batteries connected and their state of charge), as well as the type and number of appliances connected to it.

- Fast transfer time (20 milliseconds) comparable to off-line/line interactive UPS
- Transfer time configurable to cope with Genset output power
- Three step intelligent charging to reduce recharge time
- Intelligent fan cooling determined by the load
- Supports heavy duty appliances e.g. air conditioners
- Comprehensive LCD display
- Fully configurable by end user
- Power Saving Mode
- Overload, short circuit, high temperature protection
- Low battery alarm



High Voltage



Low Voltage



Spikes/Surges



Power-Back Surges



RFI / Noise



8/20µs Class III Surge/Spike

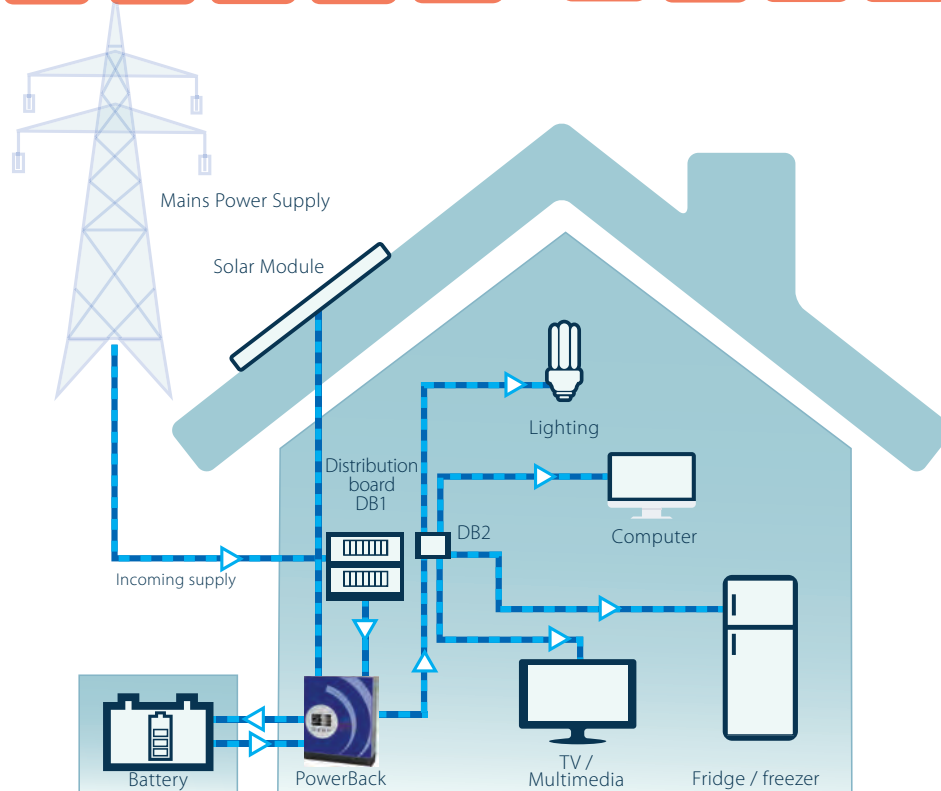


Power Cuts

Features:



Protection for:



Maxima 3kVA – WL 3kVA online inverter

NEW



The Maxima 3K-WL is a particularly rich featured online inverter that is built for most demanding applications when long runtimes are required during prolonged power cuts.

This Maxima has a powerful 40Amp charger combined with online technology, ensuring that the load, no matter how sensitive, will never experience a break in the supply.

Designed for a 48V systems to allow a professional configuration of batteries. Ideal for use in banking, telecom and all applications that require a long run of backup power combined with speed of charging when the mains return. This is made possible by its powerful 40A charger.

A typical application (like ATMs or telecom) would have the following configuration: 24 x 2V Gel batteries (like VRLA) would provide up to 12 hours of backup on full load (3kVA) or 24 hours on half load (1.5kVA) or 48 hours on quarter load (600VA).

The batteries will then recharge fully in 8 hours on return of mains.

Main features and benefits

- 3kVA online inverter
- Sinewave output
- Solid state technology
- Includes over voltage protection (400V continuous)
- Class II surge & spike protection
- Full stabilisation with input voltage range : 110-300V
- Charger current : 40A
- System voltage : 48V
- Full LCD display
- SNMP (Simple Network Management Protocol) for Intranet monitoring
- Wall mount enclosure

Features:



Protection for:

Product range comparison chart



Prevents damage to equipment from over or under voltage levels of long duration. Works by disconnecting power when voltage level exceeds set parameters. Reconnects again when power returns inside parameters for a pre-set period. Fully automatic operation. All switchers include other protection features.

												
 Low Voltage				•	•		•	•	•	•	•	•
 High Voltage	•	•	•	•	•	•	•	•	•	•	•	•
 RFI/ Noise							• (AVS13RL only)					
 Spikes/ Surges	•	•	•	•	•	•	•	•	•	•	•	•
 8/20µs Class III surge/spike	•	•	•	•	•	•	•	•	•	•	•	•
 Power Cuts												
 Power-Back Surges	•	•	•	•	•	•	•	•	•	•	•	•
 Telecom Surges						•						
Amps	1 to 2	6	6	6	7	6	13/15	20	up to 25	30	100	23 to 1250
Single phase	•	•	•	•	•	•	•	•	•	•	•	
Three phase												•
Connect via	Plug/socket	Plug/socket	Plug/socket	Plug/socket	Plug/socket	Plug/socket + data	Plug/socket	Direct wiring	Direct wiring	Direct wiring	Direct wiring	Direct wiring
Suitable for	Notebooks Laptops Netbooks	TV VCR HiFi radio etc	TV LCD/ Plasma screens VCR HiFi Fax machines etc	Fridge Freezer Cooler etc	TV VCR HiFi Radio Fridge Freezer etc	Telecoms equipment internet Broadband PC modem data etc	Any electrical or electronic equipment (incl.air con)	Any electrical or electronic equipment (incl.air con)	Air conditioning equipment	Air con machinery for industrial plants		

Power problem

30

Voltsafe™
Suppressor Range














Stops short-term disturbances from causing damage.
Created by lightning strikes, power stations or nearby equipment switching on & off.

Voltright™
Stabiliser and Regulator Range

Ensures equipment can still operate although the voltage level is outside its 'normal' range, by automatic correction within set levels.

Voltsure™
UPS Range

Keeps equipment operating temporarily in a blackout by using standby battery power.

	Voltsafe™ Suppressor Range				Voltright™ Stabiliser and Regulator Range					Voltsure™ UPS Range			
	 Automatic Voltage Switcher AVS3P-0	 MultiGuard	 PureAC	 Distribution Surge Protector	 Distribution Surge Protector (Din Rail)	 FridgeRight TVRight	 A/CRight	 Sollatek Voltage Stabiliser	 Automatic Voltage Regulator	 Automatic Voltage Regulator 3p	 Ultima LCD	 Maxima LCD	 PowerBack
•						•	•	•	•	•	•	•	•
•						•	•	•	•	•	•	•	•
		•	•					(optional)	(optional)	(optional)	•	•	
•	•	•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•	•	•
											•	•	•
•						•	•		(optional)	(optional)	•	•	•
	•									(optional)	•	•	
unlimited	13	3 to 13	unlimited	up to 100	1.3 to 2	12/15	1 to 75	1 to 400	20 to 3000	up to 2000	up to 6000	up to 5000	
	•	•	•	•	•	•	•	•		•	•	•	
•				•			•		•				
Direct wiring	Plug/socket + data	Plug/socket	Direct wiring	Direct wiring	Plug/socket	Direct wiring	Plug/socket	Plug/socket	Direct wiring	Plug/socket	Plug/socket	Direct wiring	
Any electrical or electronic equipment	Any electrical or electronic equipment on multi way strip	CPU Fax Modem Phone equipment	Any electrical or electronic equipment	Whole building electrical or electronic equipment 1 or 3 phase	Any electrical or electronic equipment	Air conditioners	Any electrical or electronic equipment	Sensitive electrical or electronic equipment		Computers, Servers, Telecom and any vital equipment.			

Solar power products and systems

SOLLATEK designs, manufactures and installs a wide variety of solar related products. Whilst being one of the world's largest suppliers of OEM products, Sollatek also has extensive expertise in supplying bespoke solar systems.

Thousands of solar systems have now been installed around the world, many for large developments supported and financed by the World Bank.

PRINCIPAL SOLAR ENERGY PRODUCTS Sollatek's range of solar energy products includes:



iGlow One Solar LED Lantern



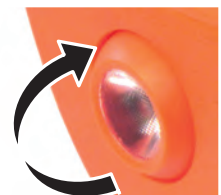
The Sollatek iGlow One is an economical and robust LED lantern with in-built solar panel and battery for ease of use. It is ideal for all small scale off-grid applications.



USB for phone charging
Micro USB for Lantern charging
LEDs showing battery level



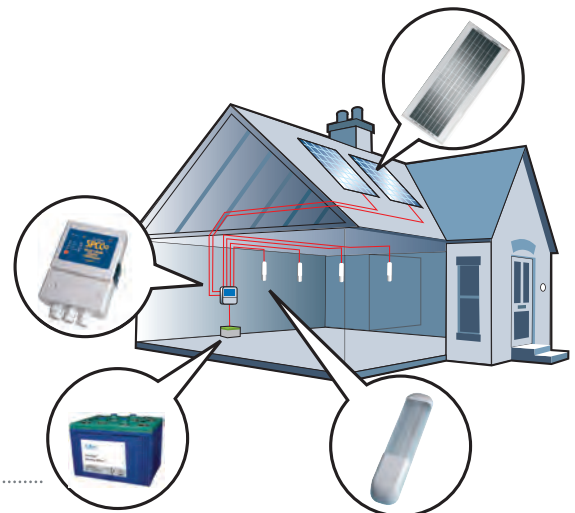
Reading light with adjustable angle



5 in 1 charging cable (including lightning, micro USB & mini USB)



SLK4 Solar Lighting Kit Self assembly low cost 4 lights solar lighting kit for home/domestic use.



Solar Lights LED, SOX, and PL lights for indoor, outdoor and street lighting applications in 12V, 24V and 48V capacities.

For further information on any of our Solar products, please see the Sollatek Solar catalogue



Solar Street Lighting Specialised bespoke street lighting and luminaires in areas where the electricity supply is unavailable. Available in LED, SOX, and PL ranges.



Batteries Designed for professional applications, the range encompasses VRLA and wet technology with both tubular and flat plates, and a capacity range from 20Ah to 15,600Ah.



Solar Modules Available in mono and multicrystalline versions. From 10Wp to 280Wp.



Solar Charge Controllers Units ranging in size from 6A to 960A for 12V, 24V and 48V applications.



Solar Energy Systems Sollatek provide a complete turnkey solution to the telecom industry for the design, supply and installation of solar power systems tailored to their practical requirements.

For further information on any of the products in this catalogue, visit our website: www.sollatek.com

Connectivity and IoT

The ability to connect machines to the internet provides businesses with a huge opportunity to improve efficiency, reduce costs and maximise sales.

Sollatek has a range of GSM and Bluetooth devices that help businesses to monitor their assets and obtain detailed data which can be viewed on an online portal provided by our industry-leading partners.

GPS and WiFi module options create an extremely accurate Asset Tracking solution allowing businesses to secure their asset estate.



GMCO MOBILE COMMUNICATOR



GMBR1 CONNECTABLE BLUETOOTH DEVICE

Temperature Control and Energy Management devices

Sollatek is a global leader in Temperature Controllers and Refrigerator Management devices for commercial fridges / freezers.

All our solutions are electronic and fully programmable starting with a basic replacement for mechanical thermostats to ultra advanced controllers with self-learning algorithms for energy saving.



FFA EVOCOOL ULTRA ADVANCED CONTROLLER



FTB ENERGY MANAGEMENT TEMPERATURE CONTROLLER



FCR ELECTRONIC TEMPERATURE CONTROLLER

Digital Displays

Sollatek's range of the latest LED technology digital displays come in a wide range of sizes and colours.



FDM3 DIGITAL DISPLAY



FDM4 DIGITAL DISPLAY



FDM5 DIGITAL DISPLAY

Stable Power

Sollatek has been providing stable and safe power to fridges and freezers around the world for over 30 years and continues to lead the way.



FSPE INTERNAL STABILISER WIDE RANGE



FSP INTERNAL VOLTAGE STABILISER



FREOGUARD VOLTAGE PROTECTION

Sollatek's **expertise** extends **worldwide** through **local networks**



Global and Local

With a customer base across the world and a local presence in more than 50 countries, Sollatek is able to provide support services wherever you are.



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ISO9001: 2008 accredited company

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