VOLTAGE PROTECTION

SOLLATEK POWER PROTECTION SOLUTIONS

COMPLETE RANGE OF VOLTAGE SWITCHERS,

SUPPRESSORS, STABILISERS, REGULATORS AND

UNINTERRUPTIBLE POWER SUPPLIES (UPS)

Sollatek™

Contents

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

Voltshield™

iS Guards

The iS guards range protects all your appliances by disconnecting the mains power when the voltage exceeds set parameters. They automatically reconnect your appliance when power returns inside safe levels. Each member of the range specialises in low or high voltage, providing you with the flexibility to choose according to your specific needs.

The all new iS range is building on the successful iSense range which has been in production for several decades.'

Voltright™

SVS04-22E

The Sollatek SVS04-22E boasts a very wide input voltage range providing a much needed boost in areas of very low voltage. The SVS04-22E will operate from 100 V to 290 V and has a modern state of the art 7 LED display to indicate accurately the state of the input at all times.

Voltright™

SVS04-22E5

The Sollatek SVS04-22E5 is capable of withstanding 500 V continuously and has a modern state of the art 7 segment LCD display to indicate accurately the state of the input and output at all times.

Voltshield™

AVS30

The AVS30 now features a fresh and modern new look.

Voltright™

AVR L Series

The Sollatek AVR3LS range is a solid-state stabiliser, micro-processor technology-controlled Voltage Regulator. At the heart of the unit is an advanced microcomputer that not only ensures very accurate control of output voltage to the load but also provides a host of advanced features. Available with digital meters or with advanced display module and connectivity.

Voltright™

SVS20-22E & SVS45-22E

The Sollatek SVS20-22E & SVS45-22E are 5 kVA and 10 kVA stabilisers, suitable for cold rooms and large single phase refrigeration equipment. The 'E' signifies that it is suitable for extended range of voltage. It can operate to as low as 100 V (for a 230 V supply) and still provide workable, safe voltage for the cold chain equipment.

Voltsure™

Ultima S Series

The Sollatek Ultima S Series is designed to safeguard your personal computer and delicate electronic devices from a spectrum of power disturbances, encompassing everything from minor fluctuations to complete power outages. With a versatile range spanning from 650 VA to 2200 VA, this UPS stands out for its adaptability to diverse power needs.

Voltshield™

AVS30 and iS Guards New Sustainable Packaging

We're dedicated to providing high-quality products while minimising our environmental impact. Recently, we've made a significant change to our packaging: transitioning from plastic packaging to fully cardboard packaging. This decision reflects our commitment to sustainability and our belief in a greener future.

By choosing cardboard packaging, we're taking a step towards reducing our carbon footprint and preserving our planet's resources.

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 10

HiVoltGuard
Mains over voltage protection
Up to 6 Amps
PAGE 11

TVGuard
Mains over voltage protection
Up to 6 Amps
PAGE 11

FridgeGuard
Mains under voltage protection
Up to 6 Amps
PAGE 12

VoltGuard
Mains over & under voltage protection
Up to 10 Amps
PAGE 12

AVS13 Appliance Guard
Automatic Voltage Switcher
Mains over & under voltage protection
13 Amps
PAGE 13

AVS13RL Appliance Guard
Automatic Voltage Switcher
+ RFI & lightning protection
Mains over & under voltage protection
13 Amps PAGE 13

AVS15 Appliance Guard
Automatic Voltage Switcher
Mains over & under voltage protection
16 Amps
PAGE 13

AVS16 Appliance Guard
Automatic Voltage Switcher
Mains over & under voltage protectionx
16 Amps
PAGE 14

SMC
Multifunction Controller
20 Amps
PAGE 14

A/C Guard
Automatic Voltage Switcher
Mains over & under voltage protection
Up to 25 Amps
PAGE 15

AVS30 Appliance Guard
Automatic Voltage Switcher
Mains over & under voltage protection
30 Amps
PAGE 15

AVS100 Appliance Guard
Automatic Voltage Switcher
Mains over & under voltage protection
100 Amps
PAGE 15

AVS303
Automatic Voltage Switcher
Mains over & under voltage protection
1250 Amps - 3 phase
PAGE 16

AVS3P-0
Automatic Voltage Switcher
Mains over & under voltage protection
Unlimited Amps - 3 phase
PAGE 16

Voltsafe™ Suppressors

MultiGuard MG
Premium mains spike/surge protection
Up to 13 Amps
PAGE 17

MultiGuard MGX
Value mains spike/surge protection
Up to 16 Amps
PAGE 18

MultiGuard MGX-W
Mains spike/surge protection. World socket
Up to 16 Amps
PAGE 18

MultiGuard MGX-B
Mains spike/surge protection. USB outlets
Up to 16 Amps
PAGE 18

DSP Single phase direct wired distribution panel
Mains spike/surge and lightning protection
PAGE 19

DSP Three phase direct wired distribution panel
Mains spike/surge and lightning protection
PAGE 19

DSP Single phase Din rail mounted
Mains spike/surge and lightning protection
PAGE 20

DSP Single & three phase Din rail
Mains spike/surge and lightning protection
PAGE 21

Voltright™ Stabilisers/Regulators

ACRight
Voltage Regulation and stabilisation
Up to 15 Amps
PAGE 22

SVS Single Phase
Mains over & under voltage stabilisation protection
Up to 16 Amps
PAGE 23

SVS Single Phase
Mains over & under voltage stabilisation protection
20 to 75 Amps
PAGE 23

SVS Single Phase Extended Range
Mains over & under voltage stabilisation protection
4 to 45 Amps
PAGE 24

SVS Three Phase
Mains over & under voltage stabilisation protection
35 to 75 Amps per phase
PAGE 24

AVR Single Phase
Mains over & under voltage stabilisation protection
Up to 10 Amps
PAGE 25

AVR Single Phase
Mains over & under voltage stabilisation protection
20 to 400 Amps
PAGE 25

AVR Three Phase L Series
Mains over & under voltage stabilisation protection
75 to 200 Amps per phase
PAGE 27

AVR Three Phase 3x Series
Mains over & under voltage stabilisation protection
20 to 200 Amps per phase
PAGE 28

AVR Three Phase Pro Series
Mains over & under voltage stabilisation protection
250 to 3000 Amps per phase
PAGE 29

Voltsure™ UPS (Uninterruptible Power Supplies)

Ultima S Series
UPS
Uninterruptible power supply
Up to 2200 VA
PAGE 30

Maxima LCD
UPS
Uninterruptible power supply
Up to 10000 VA
PAGE 31

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.

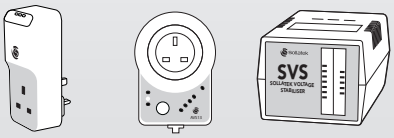
The following is a summary of the main types of power problems, their causes, and how these affect electrical and electronic equipment.

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).

Solutions



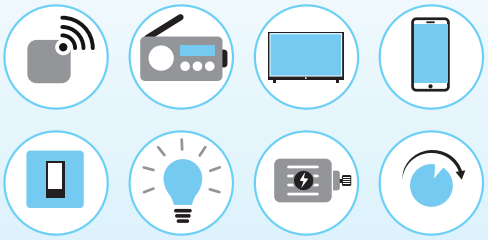
TVGUARD
HIVOLTGUARD

AVS

SVS

RFI/NOISE

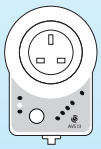
RFI (Radio Frequency Interference)/ Noise: High frequency disturbances that occur within a short period of time (milliseconds). RFI & noise are very common in all parts of the world and are the main cause of data corruption.



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.

Solution

AVS13RL

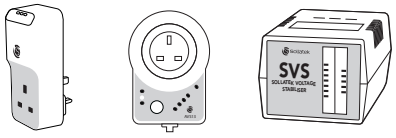


LOW VOLTAGE

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.

Solutions



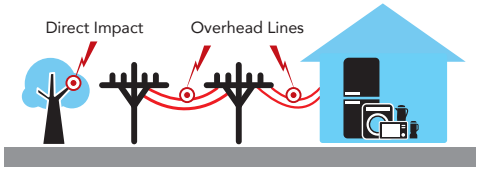
FRIDGEGUARD
VOLTGUARD

AVS

SVS

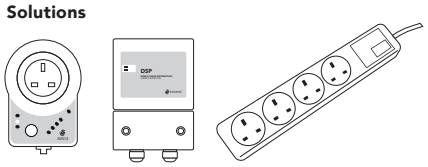
CLASS I & II SPIKES/SURGES

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 17.

Solutions



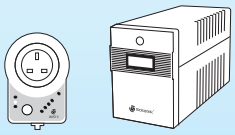
AVS DSP **MULTI**GUARDS

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.

Solutions



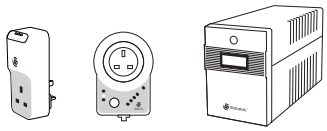
AVS UPS

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.

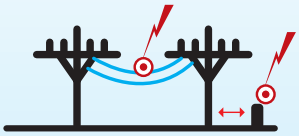
Solutions



GUARDS AVS UPS

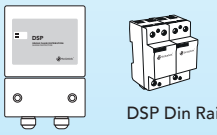
TELECOM SURGES

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.

Solutions



DSP DSP Din Rail

CLASS III 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.

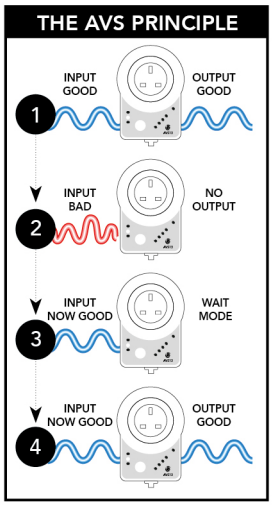
What causes it? Switching on/off of nearby equipment, lightning, motors starting etc.

Solutions

GUARDS DSP **MULTI**GUARDS

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 190 V and 260 V) 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.

Single phase up to 2 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

High Voltage

Spikes/Surges

Power-Back Surges

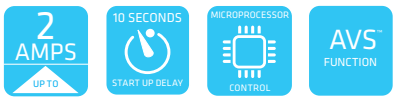
8/20µs
Class III Surge/Spike

Plug/socket availability


Cloverleaf


Figure of 8

Features



Protection for

Single phase up to 10 amps

HIVOLTGUARD *iS*

Plug/Socket availability: UK, EU, US R16

PROTECTION AGAINST:

- High voltage
- TOV 415 V
- Spikes/surges
- Power-back surges

Max current	6 amps
Wait time	30 seconds
Ideal for	TV, Video, Hi-fi, PABX 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	190 g
Dims	140.2 x 60.3 x 51.5 mm (without plug pins)

Features

Protection for

Protection against

TVGUARD *iS*

Plug/Socket availability: UK, EU, US R16

PROTECTION AGAINST:

- High voltage
- TOV 415 V
- Spikes/surges
- Power-back surges

Max current	6 amps
Wait time	30 seconds
Ideal for	TV, Video, Hi-fi, PABX 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	190 g
Dims	140.2 x 60.3 x 51.5 mm (without plug pins)

Features

Protection for

Protection against

FRIDGEGUARD *iS*

Plug/Socket availability: UK, EU, US R16

PROTECTION AGAINST:

- TOV 415 V
- Low voltage
- Spikes/surges
- Power-back surges

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 reconnection to allow for decompression of the compressor.
Weight	190 g
Dims	140.2 x 60.3 x 51.5 mm (without plug pins)

Features

Protection for

Protection against

VOLTGUARD *iS*

Plug/Socket availability: UK, EU, US R16

PROTECTION AGAINST:

- High voltage
- TOV 415 V
- Low voltage
- Spikes/surges
- Power-back surges

Max current	10 amps
Wait time	30 seconds
Ideal for	TV, Video, Hi-fi, PABX, Fridges and domestic freezers and all electronic equipment up to 10 amps.
Tip	Covers all applications as it has over and under voltage protection.
Weight	190 g
Dims	140.2 x 60.3 x 51.5 mm (without plug pins)

Features

Protection for

Protection against

Single phase 13-25 amps

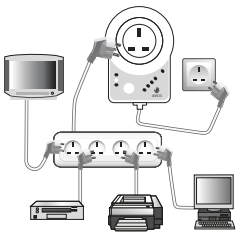
AVS13 Appliance Guard

Automatic Voltage Switcher

Over and under voltage protection

PROTECTION AGAINST:

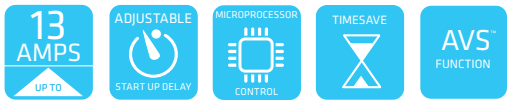
- High voltage
- Low voltage
- Spikes/surges
- Power-back surges



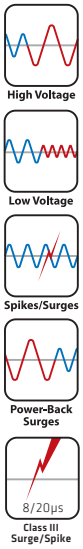
Max current	13 amps
Wait time	User adjustable from 15 seconds to 3 minutes
Ideal for	All electrical and electronic equipment
Tip	Can protect a number of appliances using a multi-way socket.
Weight	500 gm
Dims	145 x 100 x 55 mm

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

Features



Protection for



AVS13RL Appliance Guard

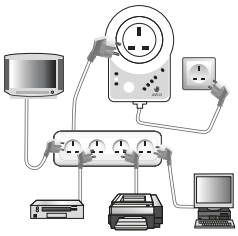
Automatic Voltage Switcher

+ RFI & lightning protection

Over and under voltage protection

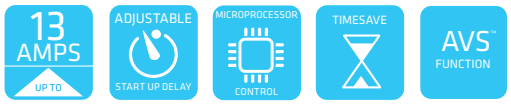
PROTECTION AGAINST:

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

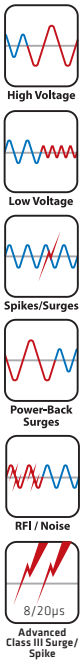


Max current	13 amps
Wait time	User adjustable from 15 seconds to 3 minutes
Attenuation(db):	20@100Khz, 50@1Mhz
Ideal for	All electrical and electronic equipment
Tip	AVS13RL adds RFI & noise and lightning protection to the standard AVS13. Use this product if you are in area where lightning is a serious issue, or you need to filter the power supply from RFI & noise.
Weight	500 gm
Dims	145 x 100 x 55 mm

Features



Protection for



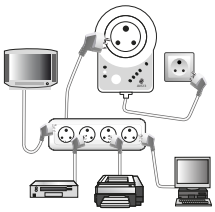
AVS15 Appliance Guard

(Automatic Voltage Switcher)

Over and under voltage protection

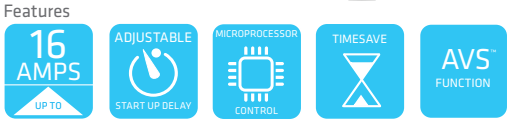
PROTECTION AGAINST:

- High voltage
- Low voltage
- Spikes/surges
- Power-back surges
- Loss Of Neutral (LoN)

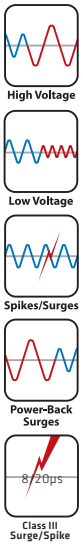


Max current	16 amps
Wait time	User adjustable from 2 minutes to 5 minutes
Ideal for	Air conditioners, large fridge/freezers
Tip	Rated at 15 amps for use with air conditioners up to 17,500 B.T.U
Weight	500 gm
Dims	145 x 100 x 55 mm

Features



Protection for



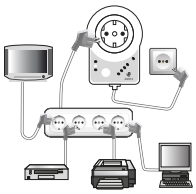
AVS16 Appliance Guard

(Automatic Voltage Switcher)

Over and under voltage protection

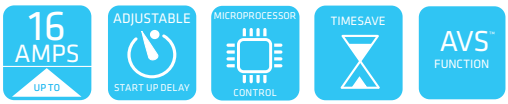
PROTECTION AGAINST:

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

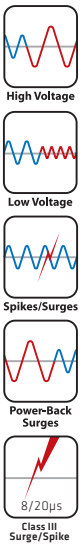


Max current	16 amps
Wait time	User adjustable from 2 minutes to 5 minutes
Ideal for	Air conditioners, large fridge/freezers
Tip	Rated at 16 amps, also ideal for all electrical and electronic equipment.
Weight	500 gm
Dims	145 x 100 x 55 mm

Features



Protection for



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.

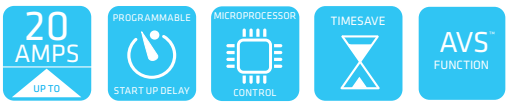
The SMC offers extensive programmable features and variety of options.

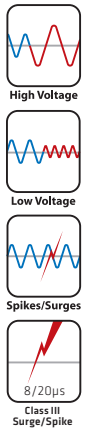
Some of the main features include frequency error protection, burn-out and over-voltage protection, and intelligent time delay startup (depending on model).

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

High Voltage · Low Voltage · Spikes/Surges · Power-Back Surges · 8/20µs Class III Surge/Spike

Features

25 AMPS UP TO · 44,000 BTU* UP TO · IP32 INGRESS PROTECTION · 4 MINUTES START UP DELAY · MICROPROCESSOR CONTROL · CIRCUIT BREAKER · TIMESAVE · OVERLOAD PROTECTION · AVS™ FUNCTION

* Dependent on model

Protection for

A/C · FREEZERS

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
- Loss Of Neutral (LoN)

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 - LVD & HVD user adjustable. 150 to 300V (230V), 75 to 150V (115V)
Weight	500 gm
Dims	210 x 132 x 53 mm

High Voltage · Spikes/Surges · Power-Back Surges · 8/20µs Class III Surge/Spike

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 - LVD & HVD user adjustable. 185V to 265V (230V), 92V to 132V (132V)
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/Spike

Features

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

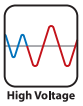
Protection for

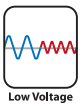
ALL EQUIPMENT INCLUDING · WHOLE BUILDINGS · A/C · FREEZERS

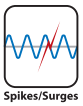
Three phase 23-1250 amps

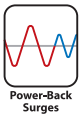
AVS303 (3 Phase Automatic Voltage Switcher AVS303-xx) (xx=Amps per phase)

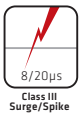
Over and under voltage protection











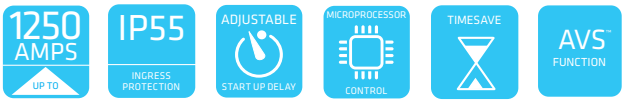
The AVS303 protects against over voltage and under voltage on any one of the three phases as well as loss of one or more phases. Indication and/or disconnection as a result of mains frequency error of phase sequence error is available as an option. The AVS303 incorporates a contactor to switch the full 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 - LVD & HVD user adjustable. 185V to 265V (230V), 92V to 132V (132V)
Socket availability	Direct wiring – standard 3 phase connections
Weight	Dependent on model number
Dims	Dependent on model number

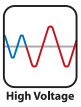
Features

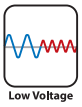


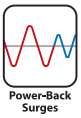
Protection for

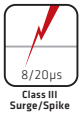
AVS3P-0 (3 Phase Automatic Voltage Switcher control)

Over and under voltage protection









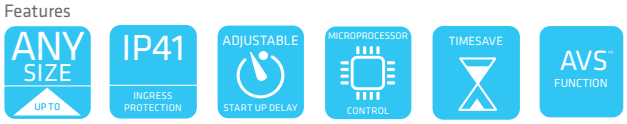
Protects from over voltage and under voltage on any one of the three phases as well as loss of one or more phases. Indication and/or disconnection as a result of mains frequency error or phase sequence error is available as an option. Unlike the AVS303, the AVS3P-0 is designed to operate an external 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):

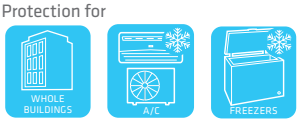
- High voltage
- Low voltage
- Spikes/surges
- Power-back surges
- Loss or duplication of any phase
- Phase rotation, phase imbalance a
  frequency may be activated

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



Voltsafe™ Suppressors are devices that protect against surges, spikes, lightning and in some cases RFI (Radio Frequency Interference) and noise. Surge/Spike 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.

KEY

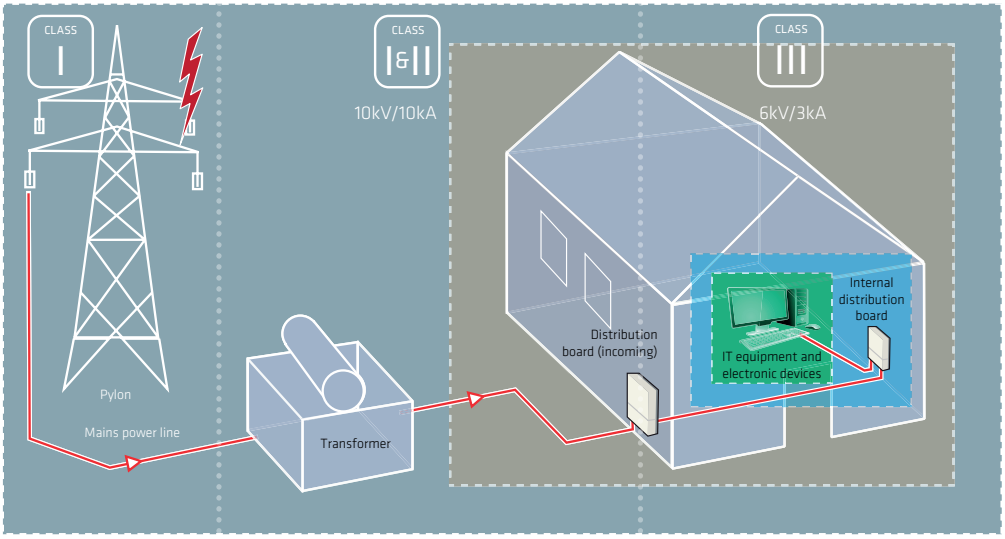
CLASS I (10/350mμ)
Lightning arresters which can withstand a near direct lightning hit.

CLASS II (8/20mμ)
Surge arresters protecting against induced surge currents nominal of 5kA and peak of 10kA.

CLASS III (8/20mμ)
Surge arresters protecting against induced surge currents nominal of 5kA

ZONES:

LPZ 0 LPZ 1 LPZ 2 LPZ 3



Different classes/types of SPD should be installed in different areas in the building or even external to the building. Lightning Protection Zones (LPZ) particularly assist in determining the LPMS protection measures required within a structure. The LPZ concept as applied to the structure is shown in the illustration above and expanded upon in BS EN 62305-3. The general principle is that the equipment requiring protection should be located in an LPZ whose electromagnetic characteristics are compatible with the equipment stress withstand or immunity capability. In general the higher the number of the zone (LPZ2; LPZ3) the lower the electromagnetic effects expected.
Typically, any sensitive electronic equipment should be located in higher numbered LPZs and be protected by its relevant LPMS measures.

Single phase up to 13 amps - mains supplies

MultiGuard (MG)
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	660 joules
Max surge current	6.5kA amps
Weight	500 gm

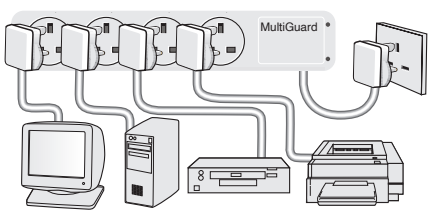
CLASS III

RFI / Noise

Spikes/Surges

8/20μs
Class III Surge/Spike

Socket availability



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

Single phase up to 16 amps - mains supplies

MultiGuard (MGX)

Spike/surge protection

PROTECTION AGAINST

- Spikes/surges

Max current	16 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

CLASS III

Spikes/Surges

8/20µs

Class III Surge/Spike

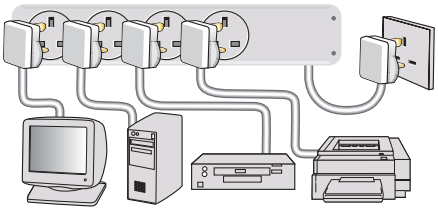
MGX4

MGX6

MGX - World Socket

MSX - Multistrip. No protection

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

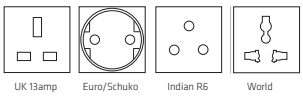


Features

16 AMPS ALL UP TO

Protection for

Socket availability



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-0

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	210 x 132 x 53 mm

CLASS II

Spikes/Surges

8/20µs
Class II Surge/Spike

Features

20kA MAX SURGE 8/20µ

IP41 INGRESS PROTECTION

Protection for

MEDICAL · SATELLITE / VSAT · TELECOM · BUILDINGS

Three Phase – direct wiring

DSP3P-0

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	210 x 132 x 53 mm

CLASS II

Spikes/Surges

8/20µs
Class II Surge/Spike

Features

20kA MAX SURGE 8/20µ

IP41 INGRESS PROTECTION

Protection for

MEDICAL · SATELLITE / VSAT · TELECOM · BUILDINGS

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 arrestor 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

TYPE I&II

Spikes/Surges

Features

30kA MAX SURGE 8/20µ | IP20 INGRESS PROTECTION | DIN RAIL MOUNT

Protection for

MEDICAL | SATELLITE / VSAT | TELECOM | BUILDINGS

DSP1P-40DC-T2

Mains spike/surge protection

The Sollatek DSP1P-40DC-T2 is a Type II surge protection device. This surge arrestor 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 LPZ2. 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

TYPE II

Spikes/Surges

Features

20kA MAX SURGE 8/20µ | IP20 INGRESS PROTECTION | DIN RAIL MOUNT

Protection for

MEDICAL | SATELLITE / VSAT | TELECOM | BUILDINGS

Three Phase – Din rail

DSP3P-100DM-T1+T2

Mains spike/surge protection

The SollatekDSP3P-100DM-T1+T2 is a Type I & II surge 3 Phase protection device. This highly efficient lightning surge arrestor 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

TYPE I&II

RFI / Noise

Spikes/Surges

10/350µs Type I Lightning

8/20µs Type II Surge/Spike

Features

100kA MAX SURGE 8/20µ

IP20 INGRESS PROTECTION

DIN RAIL MOUNT

Protection for

MEDICAL

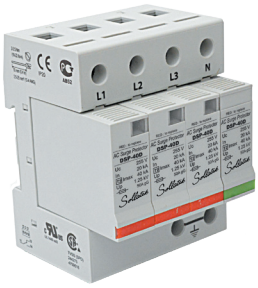
SATELLITE / VSAT

TELECOM

BUILDINGS

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 arrestor 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

TYPE II

RFI / Noise

Spikes/Surges

8/20µs Type II Surge/Spike

Features

20kA MAX SURGE 8/20µ

IP20 INGRESS PROTECTION

DIN RAIL MOUNT

Protection for

MEDICAL

SATELLITE / VSAT

TELECOM

BUILDINGS

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 Refer to page 10 for AVS description	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)
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 A/C-Right is designed to monitor and correct the incoming supply continuously. If the voltage rises or drops, it 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 A/C-Right is 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.

Single phase up to 15 amps

ACRight
Voltage regulation and stabilisation

PROTECTION AGAINST:
- High voltage
- Low voltage
- Spikes/surges
- Power-back surges

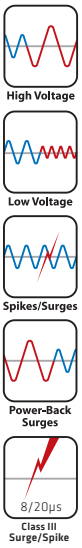
The ACRight will ensure that low voltage and high voltage is brought to a safe working level for your air conditioner to operate properly and to cool efficiently. It will also protect it by disconnecting the power when it rises to a very high level or drops to a very low level. A built in startup delay 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 (mm)
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



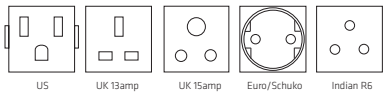
Standard Range - SVS

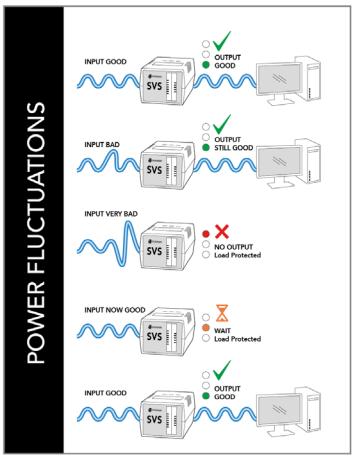
The Sollatek SVS monitors the mains voltage continuously. If the voltage rises or drops, the SVS will stabilise the output to ensure the voltage reaching your equipment remains constant at 230V (+/-6%), within the operating range of the unit. If the input voltage falls below 142V or rises above 295V,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

Over and under voltage stabilisation protection

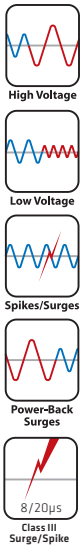
PROTECTION AGAINST:

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

MODEL	Amps	VA@240V	Socket	Rear Socket	Weight (Kg)	Dims (mm)
SVS02-22	2	480	UK or EU	1	2.0	190 x 100 x 124
SVS04-22	4	960	UK or EU	1	3.6	190 x 100 x 124
SVS08-22	8	1920	UK or EU	1	7.2	162 x 132 x 275
SVS12b-22	12.5	3000	UK	1	9.0	162 x 132 x 275
SVS15-22	15	3600	EU or UK15	1	9.0	162 x 132 x 275
SVS16-22	16	3840	EU	1	9.0	162 x 132 x 275

Features

Protection for



Single phase 20 - 75 amps

Sollatek Voltage Stabiliser

Over and under voltage stabilisation protection

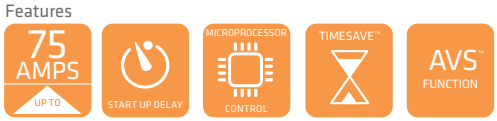
PROTECTION AGAINST:

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

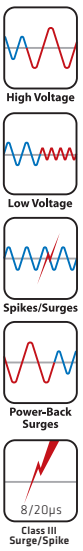
MODEL	Amps	VA@240V	Socket	Weight (Kg)	Dims (mm)
SVS20-22 C	20	4800	Cable	15.0	162 x 132 x 275
SVS20-22 T	20	4800	Terminal	15.0	162 x 132 x 275
SVS20-22 WM*	20	4800	Terminal	20.0	300 x 200 x 280
SVS35-22 WM*	35	8400	Terminal	29.0	330 x 330 x 440
SVS45-22 WM*	45	12000	Direct wiring	32.0	330 x 330 x 440
SVS75-22 WM*	75	18000	Direct wiring	45.0	330 x 330 x 440

* Wall mountable units

Features



Protection for



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

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

Wide Input Range - SVS

Single phase 4 to 45 amps

Sollatek Voltage Stabiliser Extended Range

Over and under voltage stabilisation protection

NEW

PROTECTION AGAINST:

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

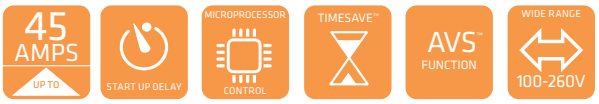
As both high and low mains voltage can damage your electrical equipment, the Sollatek SVS is designed to monitor and correct the incoming supply continuously. The "E" signifies that it is suitable for extended range of voltage. It can operate to as low as 100V (for a 230V supply) and still provide workable, safe voltage for the cold chain equipment. The "E" models should be used where power fluctuations are severe and expected to drop down to very low levels.

MODEL	Amps	VA@240V	Socket	Weight (Kg)	Dims (mm)	Socket availability
SVS04-22E	4	1000	Plug	7.2	162 x 132 x 275	EU & WS
SVS04-22E5	4	1000	Plug	7.2	162 x 132 x 275	WS
SVS20-22E	20	4800	Direct Wiring	30	340 x 320 x 380	–
SVS45-22E	45	9600	Direct Wiring	59	390 x 405 x 330	–

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

High Voltage · Low Voltage · Spikes/Surges · Power-Back Surges · 8/20µs Class III Surge/Spike

Features



Protection for

Three phase up to 75 amps

Sollatek Voltage Stabiliser Three Phase

Over and under voltage stabilisation protection

NEW

PROTECTION AGAINST:

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

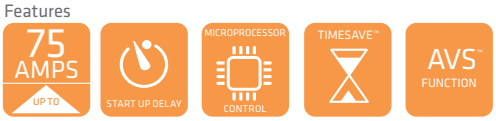
The standard Sollatek three phase SVSs boast the input voltage range of -26% to +18% (and +/-6% output), making it ideal for all applications where the voltage supply is erratic. It is made up from three identical single phase regulator units. Each of these monitors its own output voltage and adjusts for variations in mains supply to maintain an output voltage within close limits.

MODEL	Amps	kVA@240V	Socket	Weight (Kg)	Dims (mm)
SVS3x35-22	3x35	24.2	Direct Wiring	110	550 x 600 x 750
SVS3x45-22	3x45	31	Direct Wiring	110	550 x 600 x 750
SVS3x75-22	3x75	51.7	Direct Wiring	110	550 x 600 x 750

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

High Voltage · Low Voltage · Spikes/Surges · Power-Back Surges · 8/20µs Class III Surge/Spike

Features



Protection for

Automatic Voltage Regulator

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
Over and under voltage stabilisation protection

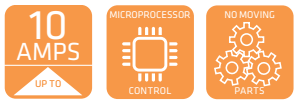
PROTECTION AGAINST:
- High voltage
- Low voltage
- Spikes/surges

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.

Model	Amps	Voltage	VA	Weight (Kg)	Dims (mm)	Socket availability
AVR02-22	2	230	460	5	124 x 193 x 100	UK, FR,SCH,UK5
AVR05-22	5	230	1150	12	145 x 285 x 212	UK, FR,SCH,UK15
AVR10-22	10	230	2300	15	179 x 335 x 212	UK, FR,SCH,UK15

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

Features



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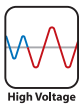
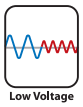
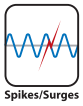






Single phase 20 to 400 amps

Automatic Voltage Regulator
Over and under voltage stabilisation protection

PROTECTION AGAINST:
- High voltage
- Low voltage
- Spikes/surges

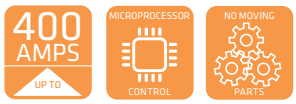
Other sizes available. Refer to Sollatek for details

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

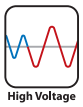
Model	Amps	Voltage	kVA	Weight (Kg)	Dims (mm)
AVR20-22	20	230	4.6	40	215 x 347 x 520
AVR30-22	30	230	6.9	55	215 x 347 x 520
AVR40-22	40	230	9.2	60	215 x 347 x 520
AVR50-22	50	230	11.5	82	460 x 785 x 445
AVR75-22	75	230	17.2	100	460 x 785 x 445
AVR100-22	100	230	23.0	114	460 x 785 x 445
AVR250-22	250	230	57.5	350	680 x 1200 x 1130
AVR300-22	300	230	69.0	382	680 x 1200 x 1130
AVR350-22	350	230	80.5	397	680 x 1200 x 1130
AVR400-22	400	230	92.0	423	680 x 1200 x 1130

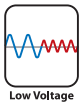
For full specifications please refer to the Sollatek AVR Range brochure.

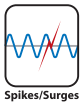
Features

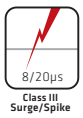


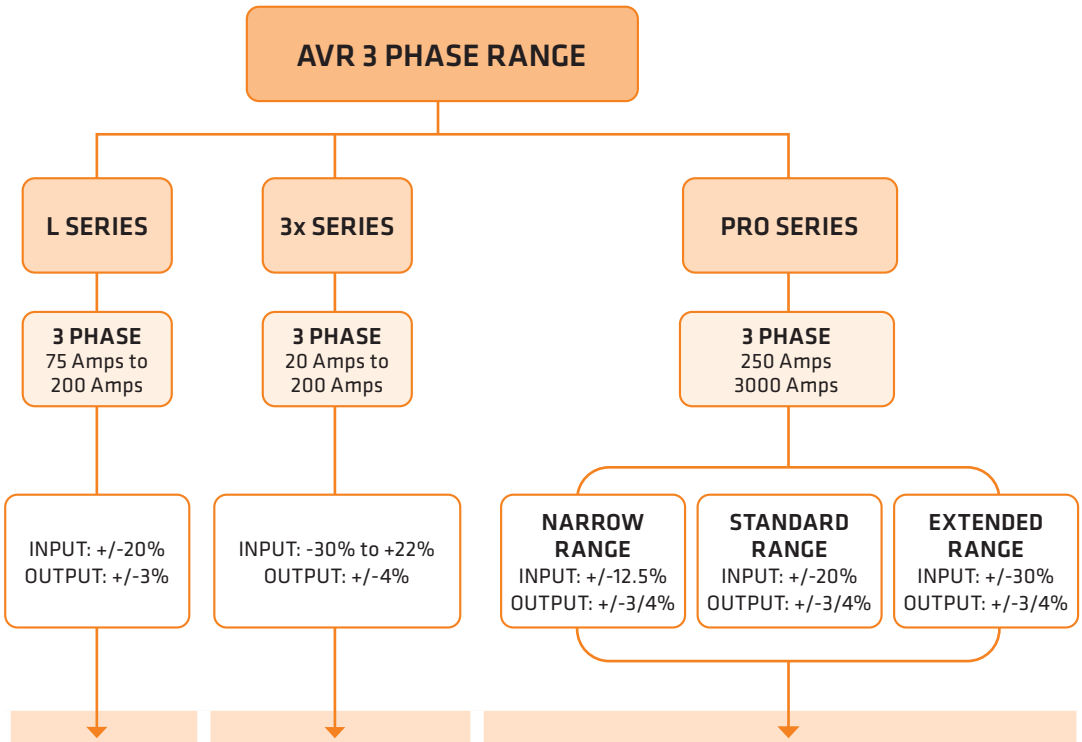
Protection for











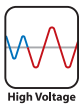
	L SERIES AFFORDABLE VOLTAGE REGULATION	3x SERIES COMMERCIAL VOLTAGE REGULATION	PRO SERIES HIGH-CAPACITY VOLTAGE REGULATION
KEY ADVANTAGE	Budget-friendly solution for cost-sensitive installations	Ideal for light commercial and residential applications	High-performance reliability for critical industrial applications
VOLTAGE CONTROL	Consistent voltage regulation for basic needs	Rapid correction for moderate voltage fluctuations	Ultra-fast response to severe and frequent voltage changes
DURABILITY & MAINTENANCE	Affordable with simple, durable design	Minimal maintenance with robust, long-lasting components	Heavy-duty construction for long-term, high-demand use

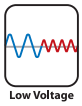
Three phase 75 to 200 amps

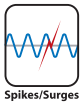
Automatic Voltage Regulator L Series

Over and under voltage stabilisation protection

The Sollatek AVR3LS range is a solid-state stabiliser, micro-processor technology-controlled Voltage Regulator. At the heart of the unit is an advanced microcomputer that not only ensures very accurate control of output voltage to the load but also provides a host of advanced features.







Model	Amps	Output Power @230V	Max Output Current/ Phase	kVA	Weight (Kg)	Dims (mm)
AVR3LS-70kVA M	75	70 kVA	100 A	70	250	511 x 1026 x 714
AVR3LS-90kVA M	100	90 kVA	133 A	90	300	511 x 1026 x 714
AVR3LS-140KVA M	150	140 kVA	200 A	140	400	511 x 1226 x 764
AVR3LS-70kVA PI	75	70 kVA	100 A	70	250	511 x 1026 x 714
AVR3LS-90kVA PI	100	90 kVA	133 A	90	300	511 x 1026 x 714
AVR3LS-1400kVA PI	150	140 kVA	200 A	140	400	511 x 1226 x 764

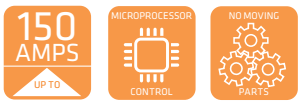
PROTECTION AGAINST:

- High voltage
- Low voltage
- Spikes/surges

Features:

- Wide input range of +/-20%
- Extremely fast speed of correction (>10 times faster than mechanical/ servo stabilisers)
- Solid state, no moving parts and maintenance free
- USB-B interface for efficient downloading of historical data
- Output circuit breaker protects the load from a short circuit or overload.
- Meters

Features



Protection for

Two ranges available:

AVR3LS Range with advanced display module and connectivity

- 7" Touchscreen module
- Live and historic operational data
- Displays input/output voltages, output current, temperatures
- Ethernet and Wi-Fi for connectivity
- Event logs via LAN, USB or on-screen
- Web portal for local network monitoring
- Quick on-site

AVR3LS Range with digital meters

- Displays input / output voltage and current

Three phase 20 to 200 amps

Automatic Voltage Regulator 3x Series

Over and under voltage stabilisation protection

PROTECTION AGAINST:

- High voltage
- Low voltage
- Spikes/surges

The Sollatek three phase AVR is made of three identical single phase regulator units providing independent control. Each of these monitors its own output voltage and adjusts for variations in mains supply voltage.

Features:

- Input range: -30% to +22% as standard.
- 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)

High Voltage

Low Voltage

Spikes/Surges

Power-Back Surges

8/20µs

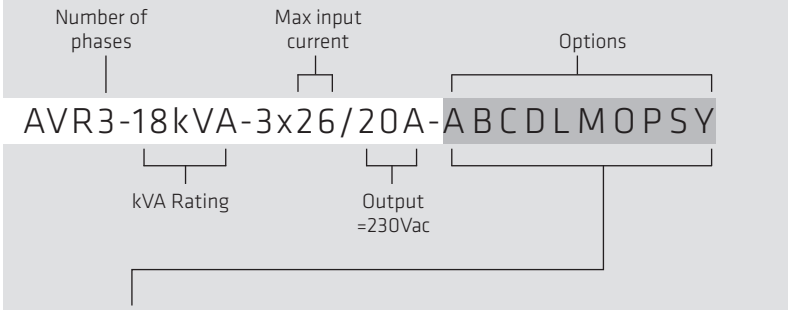
Class III Surge/Spike

Model	Amps	Voltage	kVA	Weight (Kg)	Dims (mm)
AVR3-18kVA 3x26/20A	20	230/400	18	119	450 x 635 x 850
AVR3-25kVA 3x40/30A	30	230/400	25	145	450 x 635 x 850
AVR3-45kVA 3x66/50A	50	230/400	45	224	500 x 685 x 1060
AVR3-70kVA 3x100/75A	75	230/400	70	280	600 x 735 x 1110
AVR3-90kVA 3x133/100A	100	230/400	90	350	500 x 835 x 1280
AVR3-140kVA 3x200/150A	150	230/400	140	405	500 x 835 x 1280
AVR3-190kVA 3x266/200A	200	230/400	190	767	680 x 1200 x 2070

Larger sizes available. Refer to Sollatek for details

Features

Protection for



Options	
A	AVS
B	Input circuit breaker
C	Output circuit breaker
D	Surge & lightning protection up to 20 kA
L	Phase balancer*
M	Digital meters
O	Outdoor enclosure (IP44)*
P	Changeover switch
S	High-level lightning protection>90 kA
Y	Manual bypass switch

*Model dependent

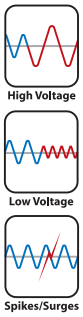
Three phase 250 to 3000 amps

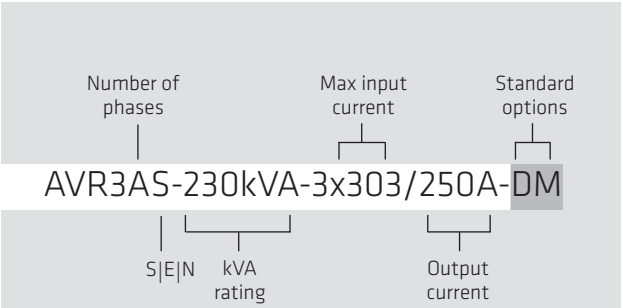
Automatic Voltage Regulator Pro Series

Over and under voltage stabilisation protection

PROTECTION AGAINST:

- High voltage
- Low voltage
- Spikes/surges





The Sollatek Pro range of AVRs offers a variety of solutions to meet the specific requirements of the client:

The Sollatek Pro range is available as standard with an input range of ±20% and output accuracy of ± 3%. This is referred to as the S (Standard) range.

In areas where fluctuations are not expected to be very wide, the N (Narrow) range provides ±12.5% input and a 3% output accuracy.

And where the mains is expected to vary in extreme, the E (Extended) range provides -30% to +20% input with a 3/4% output accuracy.

Features:

- SCR technology provides ultimate robustness
- Auto-internal by-pass
- Remote monitoring options
- Efficient electronic design

	Options
A	AVS
B	Input circuit breaker
C	Output circuit breaker
D	Surge & lightning protection up to 20kA
G	GMT modem*
M	Digital meters
S	High-level lightning protection>90kA
Y	Manual bypass switch

*Model dependent

Models available

Thyristor Technology

Narrow	Standard	Extended
(input ±12.5%, output ±3%)	(input ±20%, output ±3%)	(input -30%, +20%, output ±3/4%)
AVR3AN-230kVA 3x277/250A	AVR3AS-230kVA 3x303/250A	AVR3AE-230kVA 3x346/250A
AVR3AN-275kVA 3x331/300A	AVR3AS-275kVA 3x362/300A	AVR3AE-275kVA 3x414/300A
AVR3AN-370kVA 3x446/400A	AVR3AS-370kVA 3x487/400A	AVR3AE-370kVA 3x557/400A
AVR3AN-460kVA 3x554/500A	AVR3AS-460kVA 3x606/500A	AVR3AE-460kVA 3x693/500A
AVR3AN-550kVA 3x662/600A	AVR3AS-550kVA 3x725/600A	AVR3AE-550kVA 3x828/600A
AVR3AN-700kVA 3x843/800A	AVR3AS-700kVA 3x922/800A	AVR3AE-700kVA 3x1054/800A
AVR3AN-900kVA 3x1084/1000A	AVR3AS-900kVA 3x1186/1000A	AVR3AE-900kVA 3x1355/1000A
AVR3AN-1100kVA 3x1325/1200A	AVR3AS-1100kVA 3x1449/1200A	AVR3AE-1100kVA 3x1656/1200A
AVR3AN-1650kVA 3x1987/1800A	AVR3AS-1650kVA 3x2174/1800A	AVR3AE-1650kVA 3x2484/1800A
AVR3AN-2000kVA 3x2409/2173A	AVR3AS-2000kVA 3x2635/2173A	AVR3AE-2000kVA 3x3011/2173A

For full specifications, please refer to the Sollatek AVR brochure.

Line-interactive range 650VA to 10000VA

Power problems - such as surges, brownouts, and utility failures - can pose a serious threat to your business. The more complex and active your computing network, the higher the risk. If a power outage leads to lost productivity, it can impact your company's performance, profitability, and even long-term viability. Fortunately, an uninterruptible power supply (UPS) is easy to install and offers a quick return on investment. Considering the potential cost of power failure, a reliable UPS is not just important, it's essential.

Ultima S Series

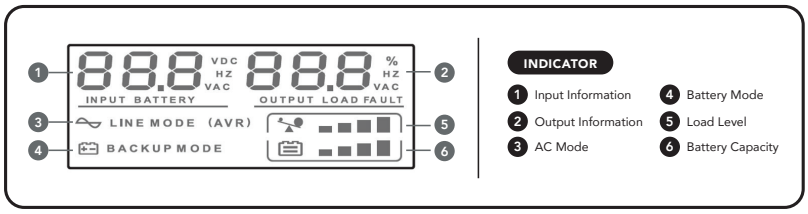
Uninterruptible power supply

The Sollatek Ultima S Series UPS – reliable and compact. An interactive Uninterruptible Power Supply (UPS) designed to safeguard your personal computer and delicate electronic devices from a spectrum of power disturbances, encompassing everything from minor fluctuations to complete power outages.

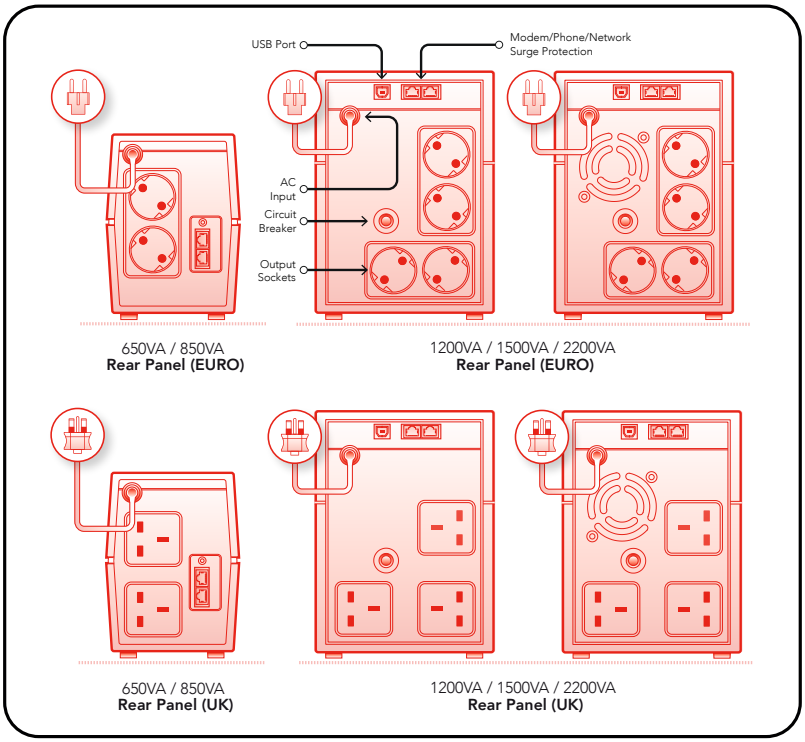
Features:

- Microprocessor controlled line interactive UPS
- Easy installation
- Automatic Voltage Regulator (AVR) function, corrects poor quality for a normal voltage range
- Seamless DC cold start
- USB-HID communication
- Auto restart while AC recovery
- LCD display
- Provides modem/phone line surge protection
- Highly efficient charger
- Minimal load sensing
- Compact size and light weight

LCD PANEL

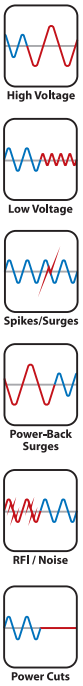


REAR PANEL

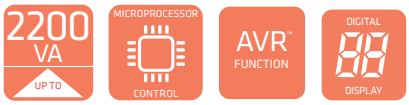


The rear panel diagrams presented are for illustrative purposes only.
Detailed drawings are available upon request.

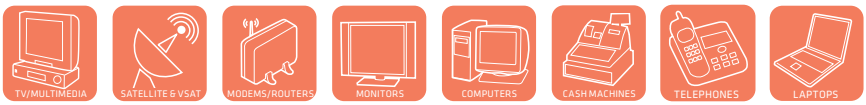
Model	Amps	kVA/ Watt	Weight (Kg)	Dims (mm)
Ultima 650	2.8	650VA / 360W	4.4	290 x 100 x 143
Ultima 850	3.7	850VA / 480W	5.2	290 x 100 x 143
Ultima 1200	5.2	1200VA / 600W	7.8	364 x 139 x 195
Ultima 1500	6.5	1500VA / 900W	9.4	364 x 139 x 195
Ultima 2200	9.4	2200VA / 1200W	10.4	364 x 139 x 195



Features



Protection for



Maxima – Double Conversion Online UPS

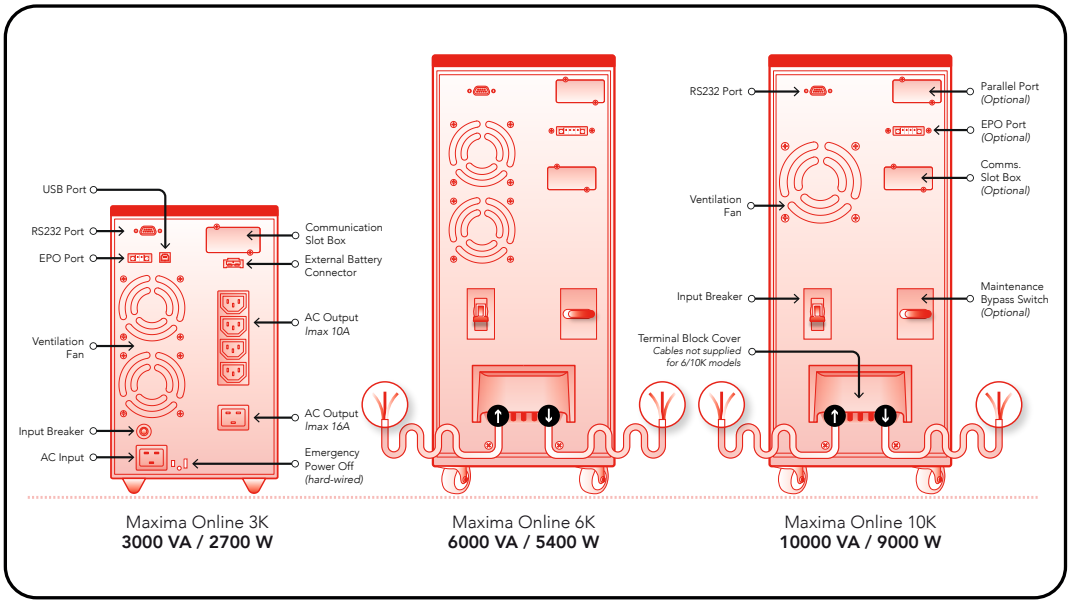
Uninterruptible power supply

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.

Model	Amps	kVA/ Watt	Weight (Kg)	Dims (mm)
Maxima 3K	13	3000 VA / 2700 W	22.7	190 x 393 x 327
Maxima 6K	26	6000 VA / 5400 W	59	248 x 500 x 616
Maxima 10K	48	10000 VA / 9000 W	63	248 x 500 x 616

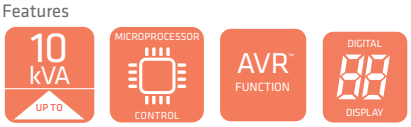
Main features and benefits

- True Double-Conversion & DSP Control: High adaptability to harsh mains conditions while providing precise, reliable power management.
- High Efficiency & ECO Mode: Operates with a 0.9 output power factor for energy savings, and supports an energy-saving ECO mode.
- Wide Input Range & CVCF Support: Accepts a wide voltage/frequency range and maintains constant voltage & frequency for sensitive loads.
- Parallel Operation: Easily increase capacity or redundancy, up to three units in parallel using an optional parallel card.
- Intelligent Communication & USB-HID: For remote monitoring, plus USB-HID capability for driver-free UPS management.
- Comprehensive Protections: Includes OVCD (optional on 3kVA), fan lock detection, over-temp. detection & overload warnings for reliability
- Compact & Quiet Design: Requires minimal installation space, while low audible noise ensures a comfortable environment.
- Programmable LCD Display: Offers quick UPS parameter configuration and real-time monitoring for easy setup and management
- CE Compliance: Meets stringent safety and performance standards for assured quality.

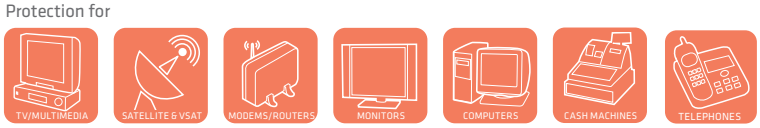


The rear panel diagrams presented are for illustrative purposes only.
Detailed drawings are available upon request.

Features



Protection for



Three Phase Models available ranging from 10 to 200 kVA.
Contact Sollatek for more information.

Product Range Comparison Chart

Voltshield™

Switcher Range

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.

	 NotebookGuard	 HiVoltGuard	 TVGuard	 FridgeGuard	 VoltGuard	 Automatic Voltage Switcher AVS13/15/16	 SMC	 A/C Guard	 Automatic Voltage Switcher AVS30	 Automatic Voltage Switcher AVS100	 Automatic Voltage Switcher AVS303
Power problem: Low Voltage			●	●	●	●	●	●	●	●	●
Power problem: High Voltage	●	●	●	●	●	●	●	●	●	●	●
Power problem: RFI / Noise						● (AVS13RL only)					
Power problem: Spikes/Surges	●	●	●	●	●	●	●	●	●	●	●
Power problem: Class II Surge/Spike (8/20µs)	●	●	●	●	●	●	●	●	●	●	●
Power problem: Power Cuts											
Power problem: Power-Back Surges	●	●	●	●	●	●	●	●	●	●	●
Power problem: Telecom Surges											
Amps	1 to 2	6	6	6	10	13/15/16	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	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 etc	Fridge Freezer Cooler etc	TV VCR HiFi Radio Fridge Freezer 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		

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.

Automatic Voltage Switcher AVS3P-0	MultiGuard	Distribution Surge Protector	Distribution Surge Protection (Din Rail)	A/CRight	Sollatek Voltage Stabiliser	Automatic Voltage Regulator	Automatic Voltage Regulator 3x	Automatic Voltage Regulator L	Automatic Voltage Regulator Pro	Ultima S Series	Maxima LCD
											
●				●	●	●	●	●	●	●	●
●				●	●	●	●	●	●	●	●
	●				(optional)	(optional)	(optional)	(optional)	(optional)	●	●
●	●	●	●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●	●	●	●
										●	●
●				●		(optional)	(optional)	(optional)	(optional)	●	●
		●	●				(optional)	(optional)	(optional)		
unlimited	13	unlimited	up to 100	12/15	2 to 75	2 to 400	20 to 200	75 to 200	250 to 3000	upto 2200	up to 10000
	●	●	●	●	●	●				●	●
●			●		●		●	●	●		
Direct wiring	Plug/socket	Direct wiring	Direct wiring	Direct wiring	Plug/socket	Plug/socket	Direct wiring	Direct wiring	Direct wiring	Plug/socket	Plug/socket
Any electrical or electronic equipment	Any electrical or electronic equipment on multi way strip	Any electrical or electronic equipment	Whole building electrical or electronic equipment 1 or 3 phase	Air conditioners	Any electrical or electronic equipment	Sensitive electrical or electronic equipment				Computers, Servers, Telecom and any vital equipment.	

Refrigeration and Connectivity Solutions

Sollatek's solutions contribute to energy saving, asset tracking, sustainability and operational efficiencies through the applications of IoT technology, integrated electronics, intelligent temperature controls and advanced connectivity solutions. Our solutions are perfect for commercial fridges, coolers, freezers, drink dispensers, chiller cabinets and refrigerated displays.

Refrigeration Control

- Complete set of solutions for refrigeration and freezer control
- Asset management; live, tracking, content monitoring
- Customer flow management; peak monitoring
- Temperature management for efficient utilisation of compressors & energy

Global Connectivity

- Secure network stability & communications
- Global plug 'n' play connectivity
- Completely secure portal
- Proactive asset management and live inventory management
- Retrospective installation capacity – low roll out costs

REDUCE COSTS

INCREASE SALES

STAY IN CONTROL

GPL01

Advanced Power Quality Logger

The Sollatek Power Quality Logger (GPL01) is an advanced voltage logger which continuously monitors the mains and stabilised (output) voltage for power quality. The GPL01 system measures both input and output voltage as well as logging key events such as over/ under voltage, outages, and spikes/surges. Data is sent to the Sollatek online portal in user settable intervals (default 15 minutes), unless in the event of a triggered alert, then data is sent immediately, reducing the cost and inconvenience of site visits and manual downloading.

Protection:

- Advanced remote monitoring device for power quality
- 2 x voltage and spike measurement
- 2 x current measurement
- Alarm notifications for critical events (over/under voltage, outages, spikes/surges)
- Embedded Global SIM allows easy deployment and device setup.
- GPS and Wi-Fi for precise worldwide device location
- User configurable settings (transmission interval & alerts) over the air
- Easy plug-in socket for two inputs to allow easy installation.
- Encapsulated components for maximum environmental protection
- Two options for data connection
- Built in memory to allow storage of 3500 number of events
- Internal rechargeable battery

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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the power to protect

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ISO9001: 2015 accredited company

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MJA	10.10.2025

Voltage protection catalogue October 2025
A/I: 10910143
S/C: 00029312