Voltage Protection

Sollatek power protection solutions

Protect your valuable equipment

Complete range of **voltage switchers**,
suppressors, **stabilisers**, **regulators, inverters**
and **uninterruptible power supplies** (UPS)

Sollatek™
the power to protect

Contents

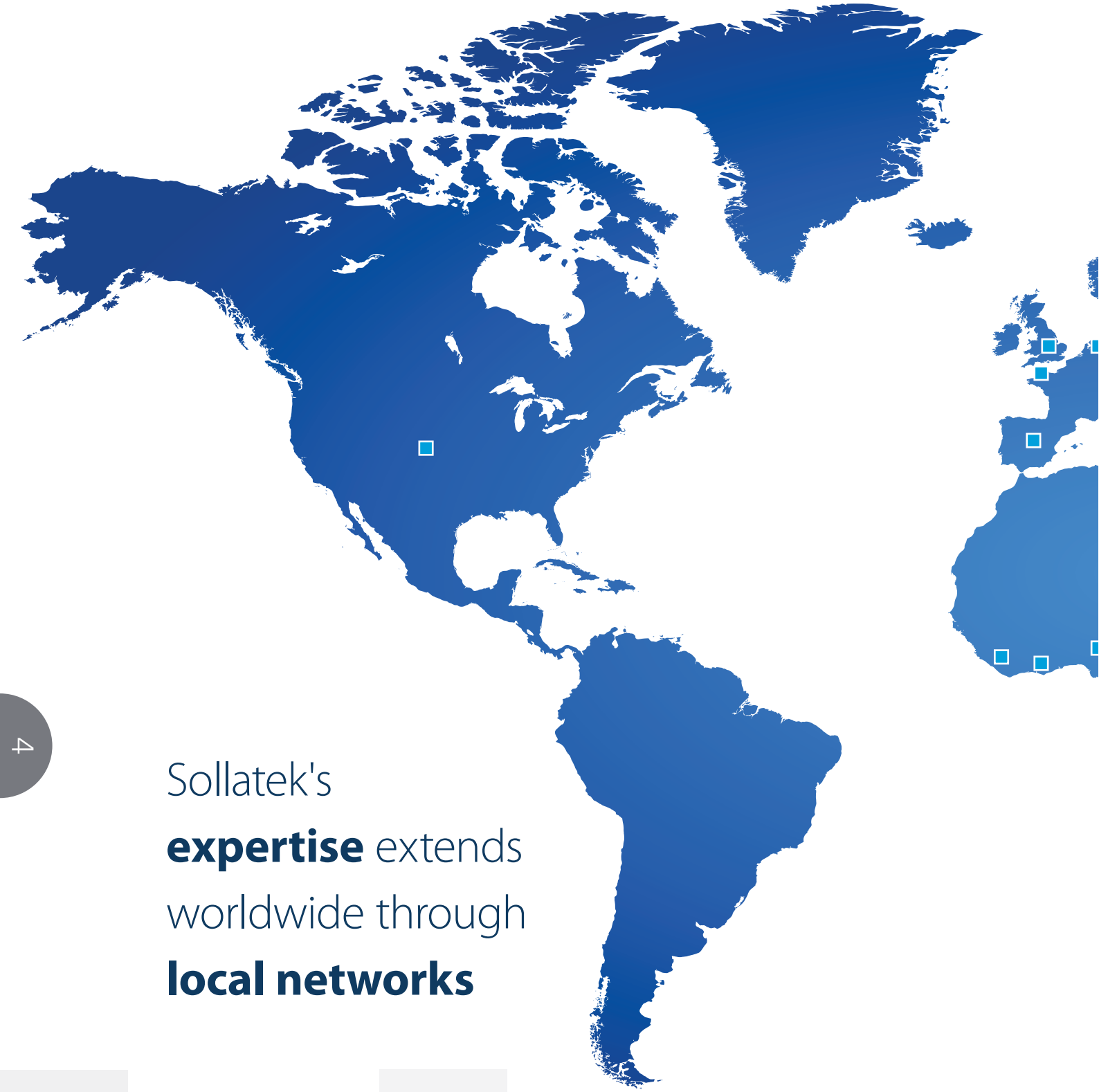
Only buy genuine Sollatek

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.

SOLLATEK PROVIDES COMPLETE VOLTAGE PROTECTION FOR YOUR ELECTRICAL EQUIPMENT



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

Global and Local

Established for over thirty years in the United Kingdom, Sollatek is a manufacturer of innovative products in power control, energy saving, temperature control, and solar energy. With its head office in the UK, Sollatek has a network of partners across the globe.

The Sollatek network comprises of local Sollatek companies (with service centres) in over ten countries and distributors and resellers in over fifty countries.

We work closely with our partners around the world to deliver our promise of a two year worldwide warranty, and in some countries this is further extended to a five year warranty.

With keen interest in emerging markets where the power quality is unreliable, Sollatek works closely with clients in a variety of disciplines including NGOs, charities, embassies, telecom providers, manufacturers of refrigeration appliances, medical equipment and various other OEMs.

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

Angola
Botswana
Cameroon
Channel Islands
Cyprus
Egypt
Ethiopia
Ghana
Greece
Hong Kong
India
Iraq
Kazakhstan
Kenya
Liberia
Libya
Malawi
Mozambique
Namibia
Nepal
Netherlands
Nigeria
Pakistan
Saudi Arabia
South Africa
Spain
Sri Lanka
Tanzania
Uganda
United Kingdom (HQ)
USA
Zambia
Zimbabwe

see page 11 for more info

Voltshield™

NotebookGuard

The NotebookGuard is a universal in-line plug-in adaptor suitable for all laptops. It prevents damage to your laptop from high voltage levels of any duration.
It works by disconnecting the power when voltage goes too high.
It will reconnect the mains to your laptop when power returns to normal. Up to 3 Amps.

see page 20 for more info

Voltright™

Fridge-Stab

The TV-Stab provides you with voltage stabilisation and protection for your domestic fridge/freezer against high and low voltage. A built in startup delay will protect against power back surges.

Voltright™

TV-Stab

The Fridge-Stab provides you with voltage stabilisation and protection for all your fridges and freezers against high and low voltage. A built in startup delay to allow motors to decompress.

see page 21 for more info

Voltright™

A/C-Stab

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

see page 27 for more info

Voltsure™

PowerBack

The Sollatek PowerBack is 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 transformerless battery-based system that will provide simple and silent operation.
Up to 5000VA / 4200W.

see page 26 for more info

Voltsure™

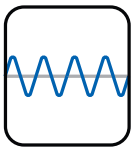
ULTIMA LCD UPS

Uninterruptible power supply

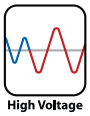
The Sollatek Ultima LCD - available in 650, 850, 1000, 1500 and 2000VA ratings - is the perfect line interactive UPS for stand alone PCs and SoHo workstations. It protects your network equipment from power surges, brownouts and utility failures at a competitive cost. Its compact design features tighter output voltage and frequency regulation, RS232 and USB communications port, and modem/data line protection.
Up to 2000VA / 1200W.

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.

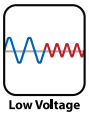


Pure, computer-grade power



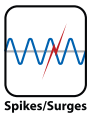
High Voltage

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).



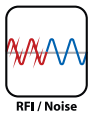
Low Voltage

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.



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.

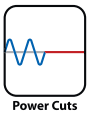


RFI / Noise

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.

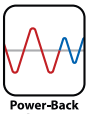
Basic Lightning

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.



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.



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.

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 11

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 7 Amps
PAGE 12

LightningGuard
Over voltage protection and data/telecom spike/surge protection
Up to 6 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 Aircon Guard
Automatic Voltage Switcher
Mains over & under voltage protection
15 Amps
PAGE 13

A/C Guard
Automatic Voltage Switcher
Mains over & under voltage protection
Up to 25 Amps
PAGE 14

AVS30 Appliance Guard
Automatic Voltage Switcher
Mains over & under voltage protection
30 Amps
PAGE 14

AVS100 Appliance Guard
Automatic Voltage Switcher
Mains over & under voltage protection
100 Amps
PAGE 14

AVS303
Automatic Voltage Switcher
Mains over & under voltage protection
1250 Amps - 3 phase
PAGE 15

AVS3P-0
Automatic Voltage Switcher
Mains over & under voltage protection
Unlimited Amps - 3 phase
PAGE 15

Voltsafe™ Suppressors

MultiGuard MGX
Mains spike/surge protection
Up to 13 Amps
PAGE 16

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

SpikeGuard
Mains spike/surge protection
Up to 6 Amps
PAGE 17

PureAC
Mains spike/surge and RFI protection
Up to 13 Amps
PAGE 17

CommsGuard
Mains and data/telecom spike/surge protection
Up to 13 Amps
PAGE 18

DSP Single & three phase
DSP1P-20-T2, DSP3P-80-T2
Mains spike/surge and lightning protection
PAGE 18-19

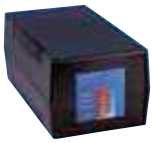
DSP Single & three phase
DSP1P-100-T2, DSP3P-100-T2
Mains spike/surge and lightning protection
PAGE 19

DSP Three phase
DSP3P-170-T1
Mains spike/surge and lightning protection
PAGE 19

Voltright™ Stabilisers/Regulators

TV-Stab / Fridge-Stab
Voltage Regulation
and stabilisation
Up to 2 Amps
PAGE 20

A/C-Stab
Voltage Regulation
and stabilisation
Up to 12 Amps
PAGE 21



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 22

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 23

Automatic Voltage Regulator (AVR)
(Isolating AVR for telecom applications)
Mains over & under voltage
stabilisation protection
Up to 3000 Amps per phase - 3 phase
PAGE 24

Voltsure™ UPS (Uninterruptible Power Supplies)

ULTIMA
Line-interactive UPS
Uninterruptible power supply
Up to 2000VA
PAGE 25

ULTIMA LCD
UPS
Uninterruptible power supply
Up to 2000VA
PAGE 26

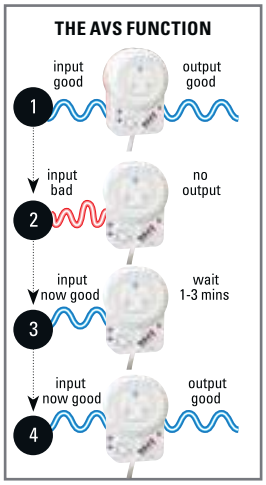
PowerBack
Transformerless, non-linear range
Uninterruptible power supply
Up to 5000VA
PAGE 27

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.



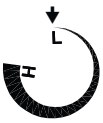
TIMESAVE™ function

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

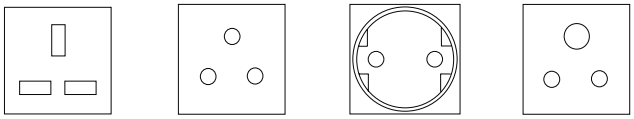
The iSense™ technology allows you to control how sensitive the VOLTSHIELD Switcher reacts to voltage problems. Using the iSense™ dial you can set the desired level of protection.

(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

NEW

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

Cloverleaf | Figure of 8

Model	Product code
NotebookGuard Cloverleaf	9266C000
NotebookGuard Figure of 8	92668000

Features

2 AMPS UP TO | 10 SECONDS START UP DELAY | MICROPROCESSOR CONTROL | AVS™ FUNCTION

Protection for

LAPTOPS ETC

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

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

Model	Product Code
Hivoltguard – UK socket	92615000
Hivoltguard – European socket	92615100
Hivoltguard – Indian socket	92615300

Features

6 AMPS UP TO | 30 SECONDS START UP DELAY | MICROPROCESSOR CONTROL | isense™ | TIMESAVE™ | AVS™ FUNCTION

Protection for

TELEVISIONS | MEDIA CENTRES | SATELLITE / VSAT | CASH MACHINES | COMPUTERS | MONITORS

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

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

Model	Product Code
TVGuard- UK socket	92655000
TVGuard- European socket	92611010
TVGuard - Indian socket	92655300

Features

6 AMPS UP TO | 30 SECONDS START UP DELAY | MICROPROCESSOR CONTROL | isense™ | TIMESAVE™ | AVS™ FUNCTION

Protection for

TELEVISIONS | MEDIA CENTRES | SATELLITE / VSAT | CASH MACHINES | COMPUTERS | MONITORS

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

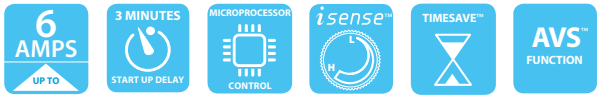
FridgeGuard
Under voltage protection

Protection against:
- Low voltage
- Spikes/surges
- Power-back surges

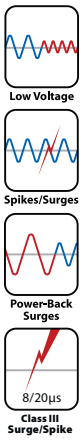
Model	Product Code
FridgeGuard – UK socket	92605000
FridgeGuard – European socket	92605100
FridgeGuard – Indian socket	92605300

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

Features



Protection for



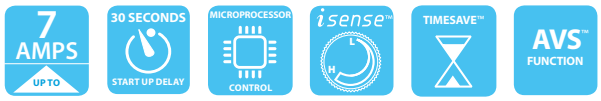
VoltGuard
Over and under voltage protection

Protection against:
- High voltage
- Low voltage
- Spikes/surges
- Power-back surges

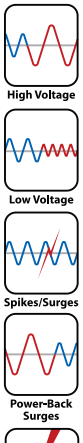
Model	Product Code
Voltguard – UK socket	92625000
Voltguard – European socket	92625100
Voltguard – 6A Indian socket	92625300

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

Features



Protection for



Single phase + telecom up to 6 amps

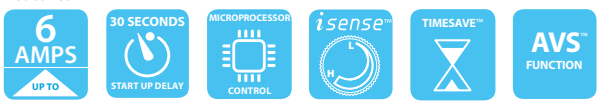
LightningGuard
Over voltage protection and data/telecom line protection

Protection against:
- High voltage
- Spikes/surges
- Power-back surges
- Data line spike surges/lightning (i.e. for telephonemodem/fax lines)

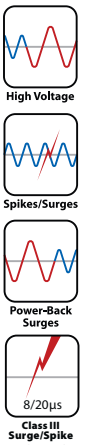
Model	Product Code
LightningGuard – UK socket	92905000
LightningGuard – European	92905100
LightningGuard – Indian	92905300

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

Features



Protection for

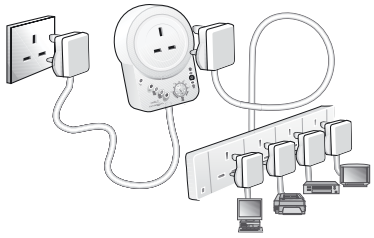


Single phase 13-25 amps

AVS13 Appliance Guard

Automatic Voltage Switcher

Over and under voltage protection



Protection against:

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

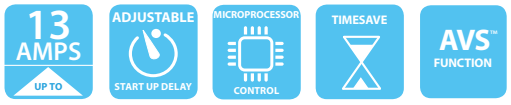
Max current	13 amps
Wait time	User adjustable from 10 seconds to 3 minutes
Ideal for	All electrical and electronic equipment
Tip	Can protect a number of appliances using a multi-way socket.
Weight	500 gm
Dims	145 x 100 x 55 mm

Model AVS13 – UK socket

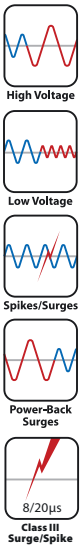
Product Code 91135000

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:

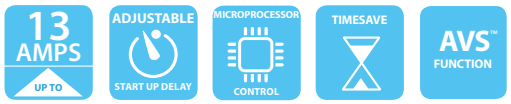
- High voltage
- Low voltage
- Spikes/surges
- Power-back surges
- RFI (radio frequency interference) and noise
- Lightning

Max current	13 amps
Wait time	User adjustable from 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

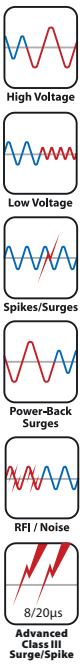
Model AVS13RL – UK socket

Product Code 91130413

Features



Protection for



AVS15 Aircon Guard

(Automatic Voltage Switcher)

Over and under voltage protection

Protection against:

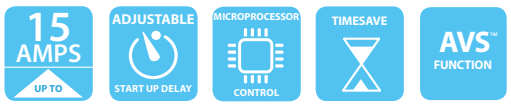
- High voltage
- Low voltage
- Spikes/surges
- Power-back surges

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

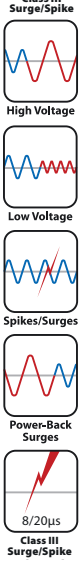
Model AVS15 – 3 round pin

Product Code 91155000

Features



Protection for



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

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.

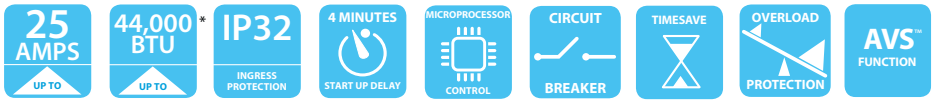
Model	Product Code
A/C Guard 16A 115V	92621610
A/C Guard 16A 220V	92621620
A/C Guard 20A 115V	92622010
A/C Guard 20A 220V	92622020
A/C Guard 25A 115V	92622510
A/C Guard 25A 220V	92622520

Protection against:
- Overload
- High voltage
- Low voltage
- Spikes/surges
- Power-back surges

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 up to 44,000 B.T.U (dependent on model)
	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



* Dependent on model

Protection for

Single phase 30-100 amps

AVS30 Appliance Guard (Automatic Voltage Switcher)
Over and under voltage protection

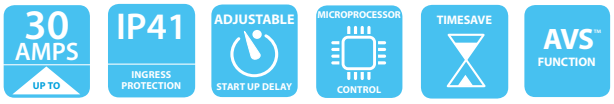
Protection against:
- High voltage
- Low voltage
- Spikes/surges
- Power-back surges

Model	Product Code
AVS30 – Direct wiring	91300000

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/Spike

Features



Protection for

AVS100 (Automatic Voltage Switcher)
Over and under voltage protection

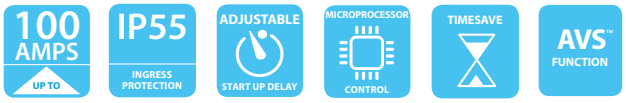
Protection against:
- High voltage
- Low voltage
- Spikes/surges
- Power-back surges

Model	Product Code
AVS100	91100000

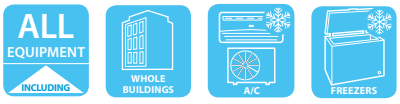
Max power	100 amps
Wait time	User adjustable from 10 secs to 10 mins
Ideal for	Air-conditioners, large fridge/freezers, whole office
Tip	Rated at 100 amps for use with a number of air-conditioners and/or whole office or factory. Direct wiring adds security of installation
Socket availability	None. Direct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

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

Features



Protection for



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).

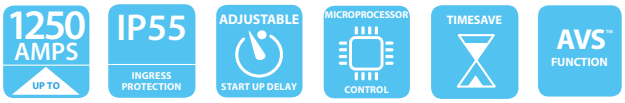
Protection against (on any or all phases):

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

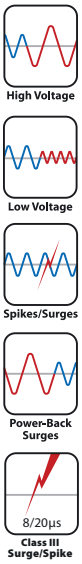
Max power	From 23 amps per phase and up to 1250 amps
Wait time	User adjustable from 10 secs to 10 mins
Ideal for	3 Phase air conditioning, industrial refrigeration and industrial plants and machinery
Tip	At a reasonable cost and almost a fraction of that of the equipment, the AVS303 will provide full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

Model	Product Code	Amps	Model	Product Code	Amps
AVS303-23	93023000	3 x 23	AVS303-72	93072000/01	3 x 72
AVS303-30	93030000	3 x 30	AVS303-110	93110000/01	3 x 110
AVS303-37	93037000	3 x 37	AVS303-135	93135000/01	3 x 135
AVS303-43	93043000	3 x 43	AVS303-170	93170000/01	3 x 170
AVS303-60	93060000	3 x 60			

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.

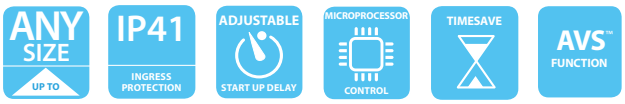
Protection against (on any or all phases):

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

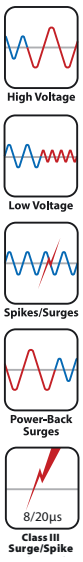
Max power	Controls an external 3 phase controller or contactor of any size
Wait time	User adjustable from 10 secs to 10 mins
Ideal For	3 phase air conditioning, industrial refrigeration and industrial plants and machinery
Tip	The AVS3P-0 has an uncommitted changeover relay output providing normally open 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

Model	Product Code
AVS3P-0	95600000

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

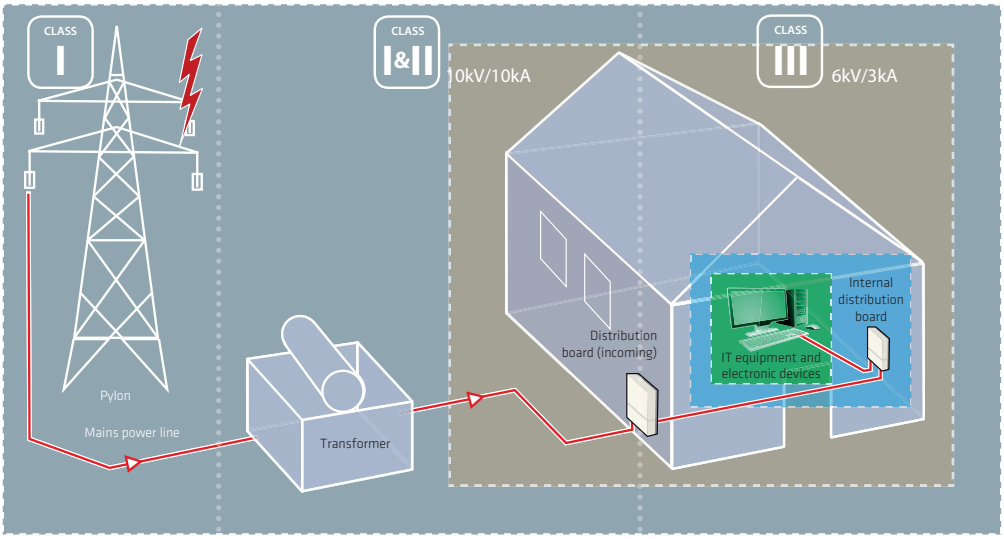
CLASS I (10/350mμ)
Lightning arresters which can withstand a near direct lightning hit.

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 (MGX)
Spike/surge protection

Max current	13 amps
Ideal for	All electronic appliances
Tip	Especially useful for computers and ideal for home use with video, TV, Hi-fi
Response time	<10 nanoseconds
Total energy rating	220 joules
Max surge current	6500kA
Weight	Dependent on model
Dims	370 x 160 x 70 mm

Product	Plug	Socket	Outlets	Cable Length	Switch
MGX-1U	UK	UK	4	1m	No
MGX6-1U	UK	UK	6	3m	No
MGX6-2U	UK	UK	6	3m	6
MGX-2S	EU	EU	5	1.8m	1
MGX-2WS	Indian	WS	4	1.5m	1
MGX6-2WS	Indian	WS	6	2m	1

CLASS III

RFI / Noise
MGX6 Only

Spikes/Surges

8/20μs
Class III Surge/Spike

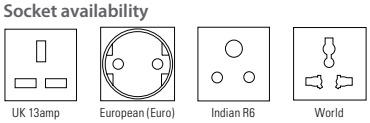
Telecom Surges
MGX6-2S only

Model	Product Code		
MSX-1U	Call Sales		
MGX-2S	92642102	MGX6-1U	92642600
MSX6-1U	Call Sales	MGX6-2S	Call sales
MGX-1U	92641100	MGX6-2S	Call Sales

Features

Protection for

Socket availability



MultiGuard (MG)
Spike/surge protection

Max current	13 amps
Ideal for	All electronic appliances
Tip	Especially useful for computers and ideal for home use with video, TV, Hi-fi
Response time	<10 nanoseconds
Total energy rating	480 joules
Max surge current	4500 amps
Weight	500 gm
Dims	370 x 160 x 70 mm

Model	Product Code
MG-1	92641109
MG-2	92642109
MG-3	Manufactured to order
MG-4	Manufactured to order

Product	Neon	Spike protection	LED	Switch	Telephone line protection	RFI	Outlets UK 13A	Cable length
MS-0		No	•				4	1.5m
MG-1	•	•					4	1.5m
MG-2		•	•	•			4	3m
MG-3		•	•	•	•		4	3m
MG-4		•	•	•		•	4	3m

Features

13 AMPS UP TO

Protection for

Socket availability

UK 13amp

CLASS III

RFI / Noise
MG-4, MG-5 only

Spikes/Surges

8/20µs
Class III Surge/Spike

Telecom Surges
MG-3, MG-5 only

SpikeGuard
Spike/surge protection

Protection against:
- Mains surges/spikes

Model	Product Code
SpikeGuard UK socket	92630000
SpikeGuard European socket	92630100
SpikeGuard Indian socket	92635300

Max power	6 amps
Mains surge/ spike protection	160 joules
Mains surge/ spike discharge	6.5kA (8/20µs)
Ideal for	All sensitive electronic equipment
Tip	Prevents everyday spikes and surges from reaching sensitive equipment
Protective mode	L-N, L -E, N-E
Weight	180 gm
Dims	140 x 60 x 90 mm

Features

6 AMPS UP TO

Protection for

CLASS III

Spikes/Surges

8/20µs
Class III Surge/Spike

Single phase + RFI up to 13 amps - mains supplies

PureAC
Spike/surge and RFI protection

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

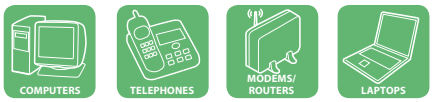
Model	Product Code	Amps
PureAC03 UK13	91003000	3
PureAC03 European	91003100	3
PureAC07 UK13	91007000	7
PureAC07 European	91007100	7
PureAC13 UK13	91013000	13
PureAC13 European	91013100	13

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

13 AMPS UP TO

Protection for



CLASS III

RFI / Noise

Spikes/Surges

8/20µs
Class III Surge/Spike

Single phase + telecom up to 6 amps

CommsGuard
Spike/surge protection

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 CommsGuard provides an effective way of preventing serious damage. As adequate protection requires that surges from the data lines are dissipated to earth, the CommsGuard is ideal as it can be plugged into the mains to provide the earthing. *(See note below).*

Protection against:
- Mains spikes/surges
- Data line spike/surge/lightning protection i.e. for telephone/modem/fax lines

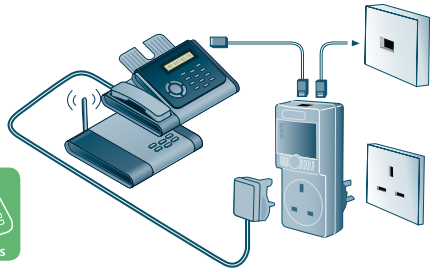
Max power	13 amps
Mains surge/spike protection	160 joules
Mains surge/spike discharge	6.5kA (8/20µs)
Data surge/spike discharge	>5kA
Max power	>10kA (8/20 s)
Protective mode	L-N, L -E, N-E
Ideal for	Modem, fax, telephone, routers
Tip	Ideal for protection of computer data, internet, modems, fax machines and telephones
Socket availability	Mains plus telephone connection
Weight	195 gm
Dims	140 x 60 x 90 mm

CLASS III
Spikes/Surges
8/20µs Class III Surge/Spike
Telecom Surges

Model	Product Code
CommsGuard – UK	92855000
CommsGuard – European	92850100
CommsGuard – Indian	92855300

Features: 13 AMPS ALL UP TO

Protection for: MODEMS/ROUTERS, FAX MACHINES, TELEPHONES



Note: The CommsGuard and LightningGuard are similar in that they both protect against spikes and surges on both data line and mains. However the LightningGuard adds over-voltage protection on the mains, by disconnecting on over-voltage, with subsequent built-in start-up delay.

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

CLASS II
Spikes/Surges
8/20µs Class II Surge/Spike

Model	Product Code
DSP1P-20-T2	91000200

Features: 20kA PER POLE 8/20µ; IP41 INGRESS PROTECTION

Protection for: MEDICAL, SATELLITE / VSAT, TELECOM, BUILDINGS

DSP1P-100-T2

Mains spike/surge protection

Specifically designed to give high capacity protection in industrial applications, the DSP1P-100 is a class II device and offers all-mode protection and maximum surge handling capability of 100kA. Enclosed in a IP66 rated enclosure design.

Model DSP1P-100-T2

Product Code 9M310020

Max surge current (8/20µ)	100kA
Let through voltage @3kA	750V
Enclosure	IP66
Indication	Green LED on: Protection present Green LED off: Internal failure
Remote contacts	No
Weight	2.3Kg
Dims	236 x 76 x 125 mm

CLASS II

RFI / Noise

Spikes/Surges

10/350µs Class I Lightning

Features

100kA UP TO 8/20µ

IP66 INGRESS PROTECTION

Protection for

MEDICAL SATELLITE / VSAT TELECOM BUILDINGS

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.

Model DSP3P-80-T2

Product Code 93000200

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

CLASS II

Spikes/Surges

8/20µs Class II Surge/Spike

Features

20kA PER POLE 8/20µ

IP41 INGRESS PROTECTION

Protection for

MEDICAL SATELLITE / VSAT TELECOM BUILDINGS

DSP3P-120-T2

Mains spike/surge protection

3 Phase version of the industrial SPD. Designed to give high capacity protection in industrial applications, the DSP3P-100 is a class II device and offers all-mode protection plus maximum surge handling capability of 100kA. Enclosed in a IP66 rated enclosure design.

Model DSP3P-100-T2

Product Code 9M312010

Max surge current (8/20µ)	120kA
Let through voltage @3kA	1.2kV
Enclosure	IP66
Indication	Green LED on: Protection present Green LED off: Internal failure
Remote contacts	No
Weight	2.3Kg
Dims	236 x 76 x 125 mm

CLASS II

RFI / Noise

Spikes/Surges

10/350µs Class I Lightning

Features

100kA UP TO 8/20µ

IP66 INGRESS PROTECTION

Protection for

MEDICAL SATELLITE / VSAT TELECOM BUILDINGS

DSP3P-170-T1+T2

Mains spike/surge protection

Designed to provide primary high capacity industrial surge protection at main service entrance locations, the DSP3P-170 gives ten-mode protection with a maximum surge handling capacity of 170kA per phase Class II. It is also a Class I device offering 50kA @ (10/350µs).

With built-in redundant full varistor networks, this DSP ensures your premises are never unprotected. Visual warning or remote warning alerts the operator of the failure of one varistor network while the redundant unit keeps protecting the site thus ensuring your equipment is always protected, even after a direct strike. The unit's enclosure is IP66 rated.

Model DSP3P-170-T1

Product Code 9M315010

Max surge current (8/20µ)	170kA
Let through voltage @3kA	750V
Enclosure	IP66
Indication	Green LED on: Protection present Green LED off: Internal failure
Remote contacts	Optional
Weight	3.2Kg
Dims	214 x 297 x 123 mm

CLASS II

RFI / Noise

Spikes/Surges

10/350µs Class I Lightning

Features

170kA UP TO 8/20µ

IP66 INGRESS PROTECTION

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 - Stab

Description

As both high and low mains voltage can damage your electrical equipment, the Sollatek TV-Stab, Fridge-Stab and A/C-Stab 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 TV-Stab, Fridge-Stab and A/C-Stab 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

TV-Stab

Voltage regulation and stabilisation

NEW

Model	Product Code
99MT0132-EU	TV-STAB13M-EU 1.3A
99MT0132-R6	TV-STAB13M-R6 1.3A
99MT0132-UK	TV-STAB13M-UK 1.3A
99MT0202-EU	TV-STAB20M-EU 2A
99MT0202-R6	TV-STAB20M-R6 2A
99MT0202-UK	TV-STAB20M-UK 2A

Fridge-Stab

Voltage regulation and stabilisation

NEW

Model	Product Code
99MF0102-EU	FRIDGE-STAB280M-EU 1A
99MF0102-R6	FRIDGE-STAB280M-R6 1A
99MF0102-UK	FRIDGE-STAB280M-UK 1A
99MF0202-EU	FRIDGE-STAB450M-EU 2A
99MF0202-R6	FRIDGE-STAB450M-R6 2A
99MF0202-UK	FRIDGE-STAB450M-UK 2A

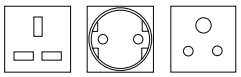
The TV-Stab & Fridge-Stab will ensure that high and low voltage is stabilised to a safe working level for your appliance to operate properly. They will also protect it by disconnecting the power when it reaches a very high or very low level.

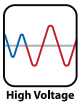
- Wide input voltage range
- Excellent output voltage stability
- Incorporates circuit breaker
- Over voltage & under voltage disconnect
- Startup delay (10sec TV-Stab, 3min Fridge-Stab)

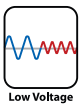
Protection against:

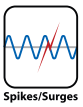
- High voltage
- Low voltage *(Fridge-Stab only)*
- Spikes/surges
- Power-back surges

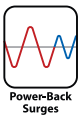
Socket availability











Model	Amps	Range	Sockets	Delay	Weight	Dims
TV-Stab 13M	1.3A	120V-290V	UK/Indian/EU	10Sec	1.4Kg	114 x 116 x 183
TV-Stab 20M	2A	120V-290V	UK/Indian/EU	10Sec	1.4Kg	114 x 116 x 183
Fridge-Stab 280M	1A	130V-290V	UK/Indian/EU	3Min	1.4Kg	114 x 116 x 183
Fridge-Stab 450M	2A	130V-290V	UK/Indian/EU	3Min	1.4Kg	114 x 116 x 183

Features

Protection for

depending on model

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

A/C-Stab

Voltage regulation and stabilisation

NEW

The A/C-Stab 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.

Protection against:
- High voltage
- Low voltage
- Spikes/surges
- Power-back surges

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

Model
A/C-Stab120M 12A 164-294/180-250V 3Min

Product Code
99MA1202

Model	Amps	Range	Sockets	Delay	Weight	Dims
A/C-Stab 120M	12A	155V-270V	Direct Wire	3Min	3Kg	104 x 117 x 256

Features

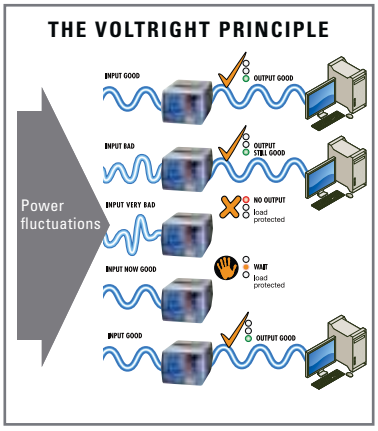
Protection for

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

Standard Range - SVS

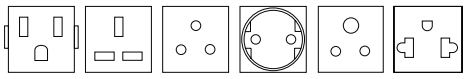
The Sollatek SVS monitors the mains voltage continuously. If the voltage rises or drops, the SVS will stabilise the output to ensure the voltage reaching your equipment remains constant at 230V (+/-6%), within the operating range of the unit. If the input voltage falls below 142V or rises above 295V,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

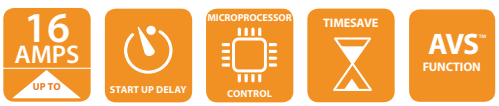
Sollatek Voltage Stabiliser (SVS)

Over and under voltage stabilisation protection

Protection against:
- High voltage
- Low voltage
- Spikes/surges
- Power-back surges

MODEL	Amps	VA@240V	Socket	Weight	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

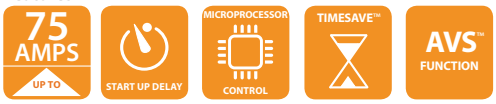
Sollatek Voltage Stabiliser (SVS)
Over and under voltage stabilisation protection

Protection against:
- High voltage
- Low voltage
- Spikes/surges
- Power-back surges

MODEL	Amps	VA@240V	Socket	Weight	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

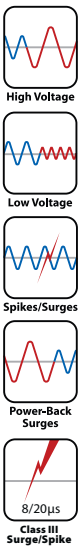
* Wall mountable units

Features



Protection for

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



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

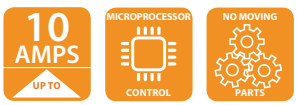
The Sollatek single phase AVRs are suitable for all applications for domestic and small office use. This range of AVRs is built into an attractive and modern enclosure to blend in with modern equipment.

Protection against:
- High voltage
- Low voltage
- Spikes/surges

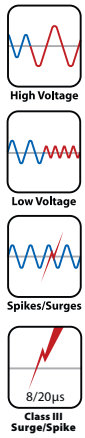
Model	Amps	Voltage	VA	Weight (Kg)	Dims (mm)	Socket availability
AVR01-22	1	230	230	4	193 x 100 x 124	UK, EU, IND6
AVR02-22	2	230	460	5	193 x 100 x 124	UK, EU, IND6
AVR05-22	5	230	1150	12	277 x 133 x 161	UK, EU, IND6
AVR10-22	10	230	2300	15	336 x 212 x 179	UK,EU, IND6

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

Features



Protection for



Single phase 20 to 400 amps

Automatic Voltage Regulator (AVR)

Over and under voltage stabilisation protection

Protection against:
- High voltage
- Low voltage
- Spikes/surges

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

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

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

Other sizes available. Refer to Sollatek for details

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

Features: 400 AMPS UP TO · MICROPROCESSOR CONTROL · NO MOVING PARTS

Protection for: MEDICAL · SATELLITE / VSAT · TELECOM · MULTIMEDIA · COMPUTERS · BUILDINGS

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

Automatic Voltage Regulator (AVR)

Over and under voltage stabilisation protection

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 8*
- Input / output voltage and current meters *(optional)*
- Additional surge / spike suppression. Up to 3 x 1280 joules

Protection against:
- High voltage
- Low voltage
- Spikes/surges

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
AVR3x250-22	250	230/400	172.5	675	680 x 1200 x 2070
AVR3x300-22	300	230/400	207.0	735	680 x 1200 x 2070
AVR3x400-22	400	230/400	276.0	790	680 x 1200 x 2070
AVR3x700-22	700	230/400	483.0	1200	1360 x 1200 x 2070
AVR3x800-22	800	230/400	552	1590	1360 x 1200x 2070
AVR3x900-22	900	230/400	621	1700	1360 x1200 x 2070
AVR3x1000-22	1000	230/400	690	1850	2040 x1200 x 2070

Up to 3000A per phase available

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

Larger sizes available. Refer to Sollatek for details

Features: 3000 AMPS UP TO · MICROPROCESSOR CONTROL · NO MOVING PARTS

Protection for: COMPUTERS · MEDICAL · SATELLITE / VSAT · TELECOM · BUILDINGS

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

The Sollatek isolating AVR is a version of the standard Sollatek AVR. Designed specifically to provide the high level of protection required for telecommunication applications and for equipment that requires a higher level of surge, spike, and noise protection. Using an isolating transformer, the AVR provides a clean neutral and 10:1 attenuation ratio ensuring that noise on the output is significantly reduced relative to the input.

These models as standard include various additional features that are normally provided as optional extras. These include a higher IP rating of 44 to allow outdoor installation. The standard inclusion of output circuit breaker, manual by pass and automatic voltage switcher function all make this unit the preferred choice for mission critical applications.

Features

- Designed for telecom and sensitive applications.
- Designed for remote operation where a high degree of reliability is essential.
- Input delta/star isolating transformer.
- Weather-proof enclosure.
- Fully electronic solid state with no moving parts for:
  - High reliability.
  - Speed of operation .
  - Immunity to dust and other environmental conditions.

Model	Amps per phase	Voltage	KVA	Weight kg	Dims (DxWxH) mm
Isolating AVR (I)					
AVR3x12-22-I	12	230/400	8.3	175	700 x 930 x 1100
AVR3x20-22-I	20	230/400	13.8	250	700 x 930 x 1450
AVR3x30-22-I	30	230/400	20.7	350	700 x 930 x 1450
AVR3x50-22-I	50	230/400	34.5	400	700 x 930 x 1450
AVR3x75-22-I	75	230/400	51.7	500	700 x 930 x 1450
AVR3x100-22-I	100	230/400	69.0	650	900 x 1200 x 1750
AVR3x150-22-I	150	230/400	103.5	1000	900 x 1200 x 1750
					Up to 3000A per phase available
Isolating AVR (IO) In outdoor IP44 enclosure					
AVR3x12-22-IO	12	230/400	8.3	150	1110 x 370 x 1090
AVR3x20-22-IO	20	230/400	13.8	230	1110 x 450 x 1190
AVR3x30-22-IO	30	230/400	20.7	325	1110 x 450 x 1190
AVR3x50-22-IO	50	230/400	34.5	375	1110 x 450 x 1190
AVR3x75-22-IO	75	230/400	51.7	475	1260 x 500 x 1200
AVR3x100-22-IO	100	230/400	69.0	620	1250 x 700 x 1300
AVR3x150-22-IO	150	230/400	103.5	950	1250 x 700 x 1300
					Up to 3000A per phase available

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

Number of phases — Input =230Vac

AVR3x20-22-ABCDEFIMOPSWY

Output current per phase — Output =230Vac

Options

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 (Line-interactive UPS)
Uninterruptible power supply

Model	Amps	Capacity	kVA	Weight (Kg)	Dims (mm)
Ultima 400		400VA/240W		5.0	330 x 100 x 140
Ultima 600		600VA/360W		6.0	330 x 100 x 140
Ultima 800		800VA/480W		6.5	330 x 100 x 140
Ultima 1000		1000VA/600W		9.6	405 x 145 x 205
Ultima 1400		1400VA/840W		9.7	405 x 145 x 205
Ultima 2000		2000VA/1080W		9.8	405 x 145 x 205

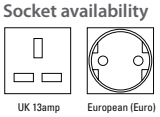
Features:

- Microprocessor controlled line interactive UPS.
- Automatic Voltage Regulator (AVR) function with two boost and one buck taps. *See page 21 for more information.*
- 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.
- Provides modem/phone line surge protection.

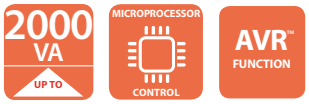
High Voltage
Low Voltage
Spikes/Surges
Power-Back Surges
RFI / Noise
8/20µs
Class III Surge/Spike
Power Cuts
Telecom Surges

Model		Product Code
Ultima 400	400VA	97014401
Ultima 600	600VA	97014601
Ultima 800	800VA	97014801
Ultima 1000	1000VA	97014102
Ultima 1400	1400VA	97014142
Ultima 2000	2000VA	97014202

Socket availability



Features



Protection for

Ultima LCD

Uninterruptible power supply

NEW

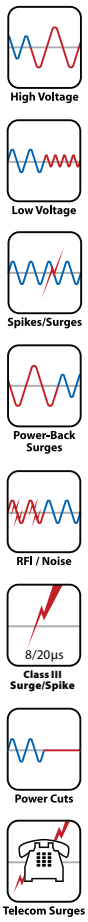
Model	Amps	Capacity	kVA	Weight (Kg)	Dims (mm)
Ultima LCD 650		650VA/360W		4.25	287 x 100 x 142
Ultima LCD 850		850VA/480W		4.9	287 x 100 x 142
Ultima LCD 1000		1000VA/600W		8.0	350 x 146 x 160
Ultima LCD 1500		1500VA/900W		11.1	397 x 146 x 205
Ultima LCD 2000		2000VA/1200W		11.1	397 x 146 x 205

Protection against:

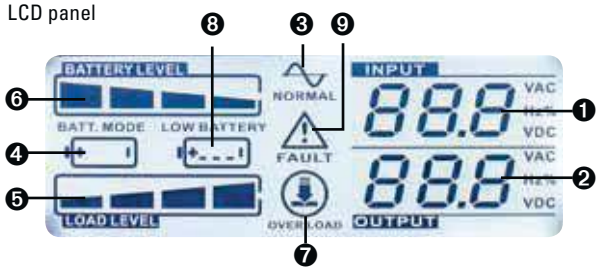
- High voltage
- Low voltage
- Spikes/surges
- Power-back surges
- RFI and noise
- Lightning
- Power cuts
- Telecom surges

Features:

- Microprocessor controlled line interactive UPS.
- Automatic Voltage Regulator (AVR) function with two boost and one buck taps. *See page 21 for more information.*
- 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 mths 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.
- Provides modem/phone line surge protection.

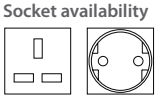


LCD panel

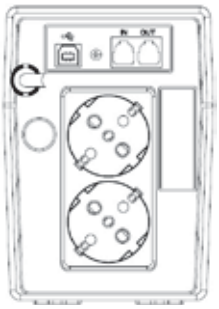


1. Input information
2. Output information
3. AC mode indicator
4. Battery mode indicator
5. Load level indicator
6. Battery capacity indicator
7. Overload indicator
8. Low battery indicator

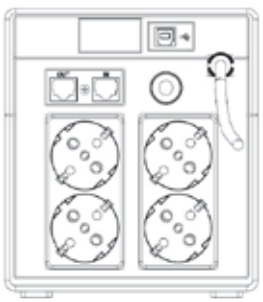
Socket availability



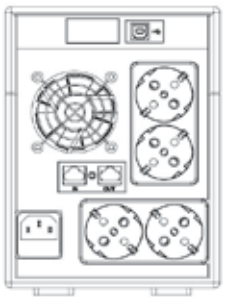
Model	Product Code
ULTIMA UPS 650 LCD EURO	97601065-EU
ULTIMA UPS 650 LCD UK	97601065-UK
ULTIMA UPS 850 LCD EURO	97601085-EU
ULTIMA UPS 850 LCD UK	97601085-UK
ULTIMA UPS 1K LCD EURO	97601102-EU
ULTIMA UPS 1K LCD UK	97601102-UK
ULTIMA UPS 1.5K LCD EURO	97601152-EU
ULTIMA UPS 1.5K LCD UK	97601152-UK
ULTIMA UPS 2K LCD EURO	97601202-EU
ULTIMA UPS 2K LCD UK	97601202-UK



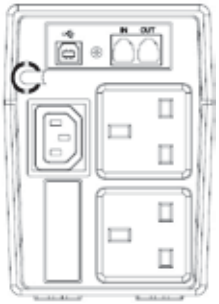
REAR PANEL 650EU / 850EU



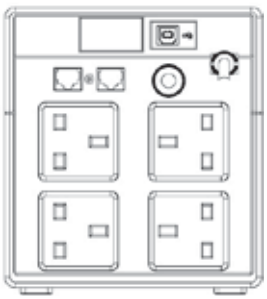
REAR PANEL 1000EU



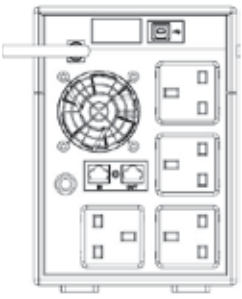
REAR PANEL 1500EU / 2000EU



REAR PANEL 650UK / 850UK

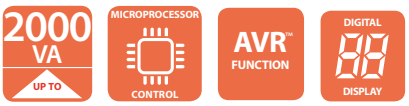


REAR PANEL 1000UK



REAR PANEL 1500UK / 2000UK

Features



Protection for

PowerBack PB5000 and 3000 (High Frequency range)

Uninterruptible power supply

NEW

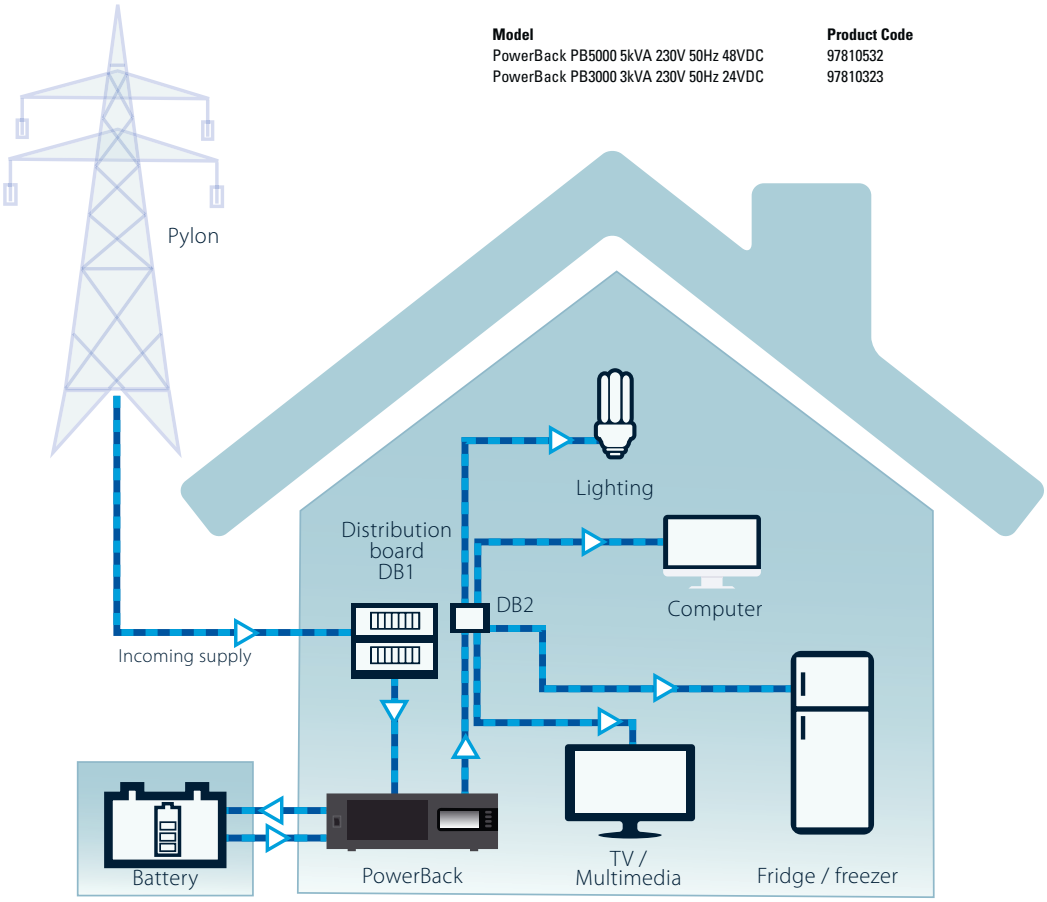
The Sollatek PowerBack is a battery-based system made up of two basic components; an inverter/charger and a set of DC batteries. The inverter/ charger converts AC power from the grid to DC to charge the batteries. When power from the grid is lost, the inverter converts the DC battery power to AC for use in the home or office. 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.

Main features and benefits

- 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.
- Fast transfer time (15millisecond) 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.

Model	Product Code
PowerBack PB5000 5kVA 230V 50Hz 48VDC	97810532
PowerBack PB3000 3kVA 230V 50Hz 24VDC	97810323



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

Features:

TEMPERATURE DISPLAY · MICROPROCESSOR CONTROL · AUDIBLE ALARM · TRANSFER TIME CONFIGURABLE · CIRCUIT BREAKER · OVERLOAD PROTECTION

Protection for:

ALL EQUIPMENT INCLUDING depending on model · FRIDGES · MULTIMEDIA · SATELLITE & VSAT · COMPUTERS

Sollatek Voltage Protecti

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.

Power problem	NotebookGuard	HiVoltGuard	TVGuard	FridgeGuard	VoltGuard	LightningGuard	Automatic Voltage Switcher AVS13/15	A/C Guard	Automatic Voltage Switcher AVS30	Automatic Voltage Switcher AVS100	Automatic Voltage Switcher AVS303	Automatic Voltage Switcher AVS3P-0
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	up to 25	30	100	23 to 1250	unlimited
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)	Air conditioning equipment	Any electrical or electronic equipment (incl.air con)	Air con machinery for industrial plants		

Spikes/Surge: Very short, (one millisecond) event 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.

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.

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).

Brown-Out/Under-Voltage: Long duration of low voltage (milliseconds to seconds, minutes, hours or days).
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.

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

on Comparison Chart

Voltsafe™
Suppressor Range

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

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.

SpikeGuard	CommsGuard	MultiGuard	PureAC	Distribution Surge Protector	Fridge-Stab TV-Stab	A/C-Stab	Sollatek Voltage Stabiliser	Automatic Voltage Regulator	Automatic Voltage Regulator 3p	Ultima LCD	Ultima 400 - 2000	PowerBack PB5000
					●	●	●	●	●	●	●	●
					●	●	●	●	●	●	●	●
		●	●				(optional)	(optional)	(optional)	●	●	
●	●	●	●	●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●	●	●	●	●
										●	●	●
					●	●		(optional)	(optional)	●	●	●
	●	●							(optional)	●	●	
6	13	13	3 to 13	unlimited	1.3 to 2	12/15	1 to 75	1 to 400	20 to 3000		1.5 to 8	21.5
●	●	●	●	●	●	●	●	●		●	●	●
				●			●		●			
Plug/socket	Plug/socket + data	Plug/socket	Plug/socket	Direct wiring	Plug/socket +direct wiring	Direct wiring	Plug/socket	Plug/socket +direct wiring	Direct wiring	Plug/socket +direct wiring	Plug/socket	Direct wiring
Any electrical or electronic equipment	CPU Fax Modem Phone 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	Any electrical or electronic equipment	Air conditioners	Any electrical or electronic equipment	Sensitive electrical or electronic equipment		Critical domestic loads, e.g. Fridge, TV, Fan etc	Computers, Servers, Telecom and any vital equipment.	

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.

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 sub station failure, breakdown in the distribution network, or simply a plug being pulled out accidentally.

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.

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.

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

Solar power products and systems

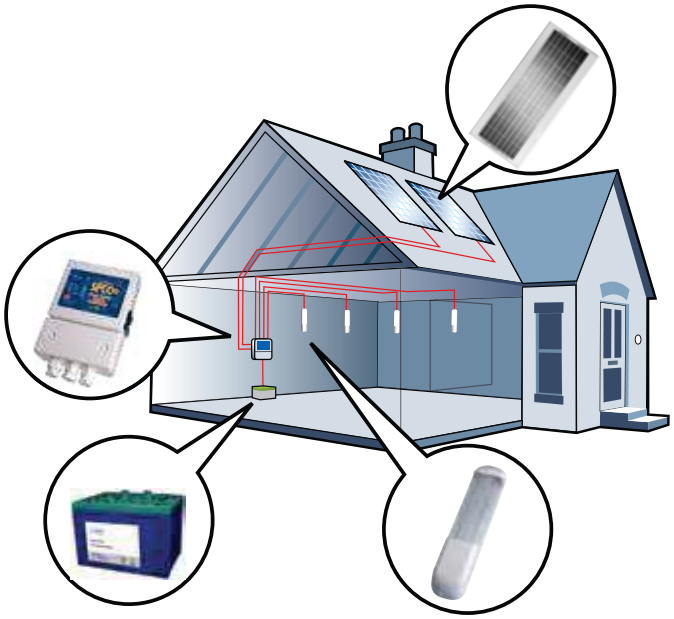
SOLLATEK designs, manufactures and installs a wide variety of solar related products. Whilst being one of the world's largest suppliers of OEM products, Sollatek also has extensive expertise in supplying bespoke solar systems.

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:

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.

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



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.

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.

Glowstar The Glowstar lantern provides simple, portable, affordable solar powered lighting designed for virtually any environment where the electricity supply is inconsistent, or unavailable. Typical uses range from remote rural households and hospitals, to camping and caravanning.

Global and Local

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

Algeria	Egypt	Jordan	Nigeria	Sweden	USA
Angola	Finland	Kenya	Norway	Sudan	Venezuela
Australia	Ghana	Kazakhstan	Pakistan	Taiwan	Yemen
Azerbijan	Greece	Libya	Philippines	Turkey	Zambia
Benin	Holland	Malawi	Qatar	Tanzania	Zimbabwe
Cameroon	Hong Kong	Mexico	Saudi Arabia	UAE	
Croatia	India	Mozambique	Sierra Leone	Uganda	
Denmark	Iraq	Nepal	South Africa	United Kingdom	

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SAY NO TO FAKES · STAY ORIGINAL™ · ALWAYS INSIST ON GENUINE SOLLATEK

Sollatek™
the power to protect
www.sollatek.com

ISO9001:2008 accredited company

TWO YEAR WORLDWIDE WARRANTY
(subject to terms and conditions).

Voltage protection catalogue June 2014
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S/C: 00029312