

POWER CONTROL LIMITED

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RETAIL PRICE LIST. EFFECTIVE 15th JANUARY 2009. IN TANZANIA SHILLINGS.

SINGLE PHASE AUTOMATIC VOLTAGE SWITCHERS

Product	Retail	Protection	Rating	Description
Fridgeguard 20% VAT	42,000.00 8,400.00 50,400.00	u/v	5A	Protects fridges, freezers, & bottlecoolers from low voltage. Cuts off at 185V and re-connects 180 seconds after resumption of good power.
Hivoltguard 20% VAT	41,000.00 8,200.00 49,200.00	o/v, sp	5A	Protects electronic products, including TV, video, fax, PABX, hi-fi etc., from high voltage and spikes. Cuts power at 260V and reconnects 10 - 15sec. after resumption of good power. The short time delay avoids inconvenience while watching TV
TV Guard 20% VAT	41,000.00 8,200.00 49,200.00	o/v, sp	5A	NEW. Ideal protection for your TV/LCD, Plasma screens and other expensive electronic equipment. Protects against high voltages, brown-outs and voltage dips.
Lightningguard 20% VAT	46,500.00 9,300.00 55,800.00	o/v, sp on both AC & DC lines	5A	Protects telephones, modems, fax machines and other telecoms equipment from lightning, surges and spikes on both the telephone and power lines. Similar in specs with the Faxguard.
Voltguard 20% VAT	49,500.00 9,900.00 59,400.00	u/v, o/v, sp	5A	A 5amp version of the AVS13 in an adaptor box with high and low voltage protection which reconnects 30 seconds after good power returns. Ideal for a single appliance which contains both electronics and a motor.
Freoguard 16 20% VAT	27,500.00 5,500.00 33,000.00	u/v, o/v, sp	16A	Industrial product with no socket. Protects A/C's up to 12,000 BTU, fridge/freezers, bottlecoolers, motors & pumps from low & high voltage and spikes. Cuts power at 185 & 260V & reconnects 3 minutes after good power returns. Water & tamper proof. (Formerly VDS 16P)
Freoguard 30 20% VAT	30,000.00 6,000.00 36,000.00	u/v, o/v, sp	30A	An industrial product with no socket. Protects air-conditioners up to 30Amps from low and high voltage & spikes. Cuts power at 185 & 260V and reconnects 3 minutes after good power returns. (Formerly VDS 30).
AVS13 20% VAT	65,500.00 13,100.00 78,600.00	u/v, o/v, sp	13A	A multi purpose unit, which protects all products against low & high voltage and spikes. Cuts power at 185 & 260V model with 5 LED'S and adjustable time delay plus on/off switch.
AVS15 20% VAT	68,000.00 13,600.00 81,600.00	u/v, o/v, sp	15A	Protects air-conditioners and washing machines from low & high voltage. Cuts off at 185 & 260V with 5 led's and adjustable time delay plus on/off switch. Also useful for load shedding non essential loads such as water heaters

AVS30 20% VAT	87,500.00 17,500.00 105,000.00	u/v, o/v, sp	30A	No socket. Protects large air-conditioners or machinery against low & high voltage and spikes. <u>NOW WITH ADJUSTABLE, BLIND SPOT, VOLTAGE LIMITS AND TIME DELAY.</u>
AVS100 20% VAT	540,000.00 0 108,000.00 0 648,000.00 0	u/v, o/v, sp	100A	No socket. Industrial product designed to protect large machines or complete electrical circuits against low and high voltage and spikes. Cuts off at 185 and 260V and you can choose the delay you require before good power returns.
AVS3P-0 20% VAT	330,000.00 0 66,000.00 396,000.00 0	u/v, o/v, sp	N/A	3 phase with No contactor. <u>DELAYS, BLIND SPOTS AND VOLTAGE LIMITS ADJUSTABLE.</u> Protects any three phase equipment which has a contactor. Optional phase rotation error detection. UNITS WITH CONTACTORS MADE TO ORDER.

AUTOMATIC VOLTAGE REGULATORS (AVR) - Single Phase.

The Sollatek Automatic Regulators (AVR) are microprocessor controlled, highly efficient, & very quick to respond to mains fluctuations (in less than one cycle). They give an extremely accurate output. They give a high degree of protection because of their very rapid response to mains fluctuations (in less than 20 milliseconds). The unit will stabilize the output to +/- 4% of 230V when the input voltage is as low as 165V and as high as 295V, thus providing a 54% correction range which makes the Sollatek AVR Range ideal for use with all sensitive electronic & electrical appliances. All units incorporate overload protection.

Product	Retail	Protection	Rating VA / Current @ 240V
AVR500 20% VAT	204,500.00 40,900.00 245,400.00	u/v, o/v, sp	0.5 kVA / 2 amps. When used with a Hivolt Guard on the output of the AVR, this unit provides the ultimate protection for delicate electronic equipment in areas of persistent high, low or fluctuating voltage.
AVR1200 20% VAT	609,500.00 121,900.00 731,400.00	u/v, o/v, sp	1.2 kVA / 5 amps. When used with a Hivolt Guard or AVS13 on the output, this unit will give the ultimate protection for delicate electronic equipment in areas of persistent high, low or fluctuating voltage.
AVR2500 20% VAT	876,500.00 175,300.00 1,051,800.00	u/v, o/v, sp	2.5 kVA / 10 amps. When used with an AVS13 on the output, this unit provides the ultimate protection for delicate electronic equipment in areas of persistent high, low or fluctuating voltage..
AVR5000 20% VAT	2,215,000.00 443,000.00 2,658,000.00	u/v, o/v, sp	4.6 kVA / 20 amps. When used with an AVS30 on the output, this unit provides the ultimate protection for delicate electronic equipment in areas of persistent high, low or fluctuating voltage.
AVR7500 20% VAT	2,546,000.00 509,200.00 3,055,200.00	u/v, o/v, sp	6.9 kVA / 30 amps. When used with an AVS30 on the output, this unit provides the ultimate protection for delicate electronic equipment in areas of persistent high, low or fluctuating voltage.
AVR10K 20% VAT	3,453,500.00 690,700.00 4,144,200.00	u/v, o/v, sp	9.2 kVA / 40amps. When used with an AVS100 on the output, this unit provides the ultimate protection for delicate electronic equipment in areas of persistent high, low or fluctuating voltage.

AVR12K 20% VAT	5,570,000.00 1,114,000.00 6,684,000.00	u/v, o/v, sp	11.5 kVA / 50amps. When used with an AVS100 on the output, this unit provides the ultimate protection for delicate electronic equipment in areas of persistent high, low or fluctuating voltage.
AVR18K 20% VAT	6,243,000.00 1,248,600.00 7,491,600.00	u/v, o/v, sp	17.2kVA / 80amps. When used with an AVS100 on the output, this unit provides the ultimate protection.
AVR24K 20% VAT	9,142,000.00 1,828,400.00 10,970,400.00	u/v, o/v, sp	23 kVA / 105amps

AUTOMATIC VOLTAGE REGULATORS (AVR) - Three Phase

The Three Phase Sollatek AVR's operate on the same lines as the single phase units by monitoring the voltage on each individual phase. They are all microprocessor controlled solid state units with a 20 milliseconds response time and give an output of + - 4%. An AVS function can be added to the AVR which will ensure a delay of your choice before the AVR can restart after power cuts and only reconnects power to the load when the input voltage is within the AVR's range.

The AVR 3x25 is fully loaded with all extras. All other sizes come only with current meters and voltage meters with all other extras being optional and chargeable.

The prices below are up to 3 x 100 kVA. Prices of larger units up to 1000kVA are available on request.

Product	Price	Protection	KVA Rating	AMPS per Phase	Weight In Kgs	Optional Extra for all 3 Phase AVR's available upon request
AVR3X25 20%VAT	6,954,500.00 1,390,900.00 8,345,400.00	u/v, o/v, sp	17.3	25	100	1. AVS Function 2. DSP Function(for protection against lightning) 3. Circuit Breaker option(recommended to be used) 4. Manual Bypass option(recommended to be used)
AVR3x30 20% VAT	6,187,500.00 1,237,500.00 7,425,000.00	u/v, o/v, sp	20.7	30	135	
AVR3x50 20% VAT	10,624,500.00 2,124,900.00 12,749,400.00	u/v, o/v, sp	36	50	225	
AVR3x75 20% VAT	13,890,000.00 2,778,000.00 16,668,000.00	u/v, o/v, sp	54	75	300	
AVR3x100 20% VAT	20,895,500.00 4,179,100.00 25,074,600.00	u/v, o/v, sp	72	100	425	

SOLLATEK VOLTAGE STABILISERS (SVS) - Single Phase.

The Sollatek Voltage Stabilisers (SVS) are microprocessor controlled relay based stabilisers that can boost the incoming voltage when it is low & reduce it when it is too high. The output will be corrected by +/- 25%. E.g. if the input voltage is 180V or rises to 270V then the output will be 240V so your equipment will operate normally. The SVS is ideal for use on all electrical appliances especially refrigerators, coolers, freezers, & air conditioners and all home and office appliances. A change in the delay times of the AVS function can be done on request and for a nominal extra charge.

Product	Retail	Protection	WATT / Current @ 240V
SVS500 20% VAT	107,500.00 21,500.00 129,000.00	u/v, o/v, sp	500W / 2 Amp. Ideal for T.V., video & computers. Incorporates AVS function on the output with a 10 sec delay to provide complete protection with minimum inconvenience.
SVS1000 20% VAT	138,000.00 27,600.00 165,600.00	U/v, o/v, sp	1000W / 4 Amps. As above, but can also be used on one fridge or freezer Delay is 1 min to allow time for decompression of compressors in fridges and freezers..
SVS1000 DUAL OUTPUT 20VAT	230,500.00 46,100.00 276,600.00	u/v, o/v, sp	NEW. 1000W @ 230V or 500W at 115V. As above but can also operate appliances of 115V input.
SVS2000 20% VAT	229,500.00 45,900.00 275,400.00	U/v, o/v, sp	1920W / 8 Amps. Now with AVS function to provide extra protection to appliances.
SVS3500 20% VAT	326,000.00 65,200.00 391,200.00	U/v, o/v, sp	3500W / 15 Amps. Same as for SVS2000.
SVS5000 20% VAT	379,000.00 75,800.00 454,800.00	U/v, o/v, sp	5000W / 20 Amps. Same as for SVS2000.
SVS12000 20% VAT	1,427,500.00 0 285,500.00 1,713,000.00	U/v, o/v, sp	12000W / 50 Amps. The 'Home Stabiliser' . Ideal to provide stable power for an entire office or house. Contact us if more protection required.
SVS18000 20% VAT	1,759,500.00 0 351,900.00 2,111,400.00	u/v, o/v, sp	18000W / 75 Amps. The 'Home Stabiliser.' Ideal to provide stable power for a whole office or house. Contact us if more protection required.
ASP04-22 20% VAT	134,500.00 26,900.00	u/v, o/v, sp	1000W / 4Amps For use on industrial fridges/freezers and bottle coolers. Incorporates both a stabiliser & AVS function for protection. For areas with persistent high or low voltage. Waterproof and tamperproof

	161,400.00		unit.
ASP06-22 20% VAT	165,100.00 33,020.00 198,120.00	u/v, o/v, sp	1000W / 6Amps For use on industrial fridges/freezers and bottle coolers. Incorporates both a stabiliser & AVS function for protection. For areas with persistent high or low voltage. Waterproof and tamperproof unit.
ASP08-22 20% VAT	205,200.00 41,040.00 246,240.00	u/v, o/v, sp	1000W / 8Amps For use on industrial fridges/freezers and bottle coolers. Incorporates both a stabiliser & AVS function for protection. For areas with persistent high or low voltage. Waterproof and tamperproof unit.

POWER SUPPRESSORS

Product	Retail	Rating	Description
SPIKEGUARD 20% VAT	20,500.00 4,100.00 24,600.00	13A	Protects any equipment rated upto 13amps for instance computers, office equipment, domestic appliances, printers, fax machines, laptops, HiFis from mains surges and spikes. Easy to fit, small, safe and maintenance free.
MULTI GUARD - 1 20% VAT	33,000.00 6,600.00 39,600.00	13A	13 Amp multiway socket (4 sockets) with spike protection. Comes in a blister pack.
MULTI GUARD – X 20% VAT	20,500.00 4,100.00 24,600.00	13A	NEW. As above but a smaller unit with shorter cable.
COMMSGUARD 20% VAT	17,000.00 3,400.00 20,400.00	5A	An improved version of the lineguard, which avoids having a separate earth connection. Mounted in a “guard” type adaptor box it fits into a standard 13 amps socket. The easy solution to protect telephones & modems from LIGHTNING strikes.
DSP1P-0 20% VAT	173,500.00 34,700.00 208,200.00	Comprehensive Spike & Lightning Protection	Distribution Surge Protector (DSP) single phase. Connected at the point of entry distribution panel, the DSP protects against surges ,spikes, LIGHTNING and transient over voltages conducted through the power distribution boards .
DSP3P-0 20% VAT	242,000.00 48,400.00 290,400.00	Comprehensive Spike & Lightning Protection	Distribution Surge Protector (DSP) three phase. Connected at the point of entry distribution panel, the DSP protects against surges ,spikes, LIGHTNING and transient over voltages conducted through the power distribution boards

UPS

ULTIMA UPS 600 20% VAT	129,000.00 25,800.00 154,800.00	280VA	Microprocessor controlled Line Interactive UPS. Fully automatic voltage stabilizer, 15 minutes backup at 200VA,8hours to recharge to 90% after full discharge,short circuit and overload protection. 2 YEARS WARRANTY ON BATTERIES.
ULTIMA UPS 800 20% VAT	173,000.00 34,600.00 207,600.00	420VA	Microprocessor controlled Line Interactive UPS. Fully automatic voltage stabiliser, 22 minutes backup at 200VA,8 hours to recharge to 90% after full discharge,short circuit and overload protection. 2 YEARS WARRANTY ON BATTERIES.
ULTIMA UPS 1000 20% VAT	258,500.00 51,700.00 310,200.00	650VA	Microprocessor controlled Line Interactive UPS. Fully automatic voltage stabiliser, 45 minutes backup at 200VA,6 hours to recharge to 90% after full discharge,short circuit and overload protection. 2 YEARS WARRANTY ON BATTERIES.
ULTIMA UPS 1400 20% VAT	388,000.00 77,600.00 465,600.00	300VA	Microprocessor controlled Line Interactive UPS. Fully automatic voltage stabilizer,58 minutes backup at 200VA,6 hours to recharge to 90% after full discharge,short circuit and overload protection. 2 YEARS WARRANTY ON BATTERIES.
ULTIMA UPS 2000 20% VAT	528,000.00 105,600.00 633,600.00	500VA	Microprocessor controlled Line Interactive UPS. Fully automatic voltage stabilizer,58 minutes backup at 200VA,6 hours to recharge to 90% after full discharge,short circuit and overload protection. 2 YEARS WARRANTY ON BATTERIES.

SOLAR PANELS & ACCESSORIES

Product	Retail	Description
6 WATT SHURJO PANEL	55,500.00	The latest in thin film solar technology. Made of Copper Indium Gallium diSelenide (CIGS), a crystalline material, these panels provide consistent power and do not degrade when exposed to sunlight-unlike amorphous panels. Also unlike traditional crystalline panels, the CIGS panels yield more energy per KW installed due to better performance in low light. Made of toughened glass, with a three layer Tedlar backing, this is a robust light weight solar module. Recommended for use with the Glowstar 5W and comes with a 10 YEAR WARRANTY.
9 WATT SHURJO PANEL	83,500.00	Characteristics as above. Recommended for use with the Glowstar 7W(Plus). 10 YEAR WARRANTY
15 WATT SHURJO PANEL	120,000.00	Characteristics as above. 20 YEAR WARRANTY.
30 WATT SHURJO PANEL	255,500.00	Characteristics as above. 20 YEAR WARRANTY.(Available from Apr'08)
45 WATT SHURJO PANEL	401,000.00	Characteristics as above. 20 YEAR WARRANTY.(Available from Apr'08)
60 WATT SHURJO PANEL	526,500.00	Characteristics as above. 20 YEAR WARRANTY.(Available from Apr'08)
90 WATT SHURJO PANEL	764,000.00	Characteristics as above. 20 YEAR WARRANTY.(Available from Apr'08)

SOLAR LANTERNS

Product	Retail	Description
GLOWSTAR LANTERN	118,500.00	A high quality mobile light for rural areas. Can be re-charged with a 5 ,10 or 14 watt panel (see US LM5, US LM10,5W GS China, & 14 Watt ICP Solar Panel). 5 YEAR WARRANTY FOR THE LANTERN & 6 MONTHS FOR THE BATTERY. NO WARRANTY ON THE BULB.
GLOWSTAR PLUS LANTERN	167,000.00	As above but comes with additional features such as an auxiliary DC Power Output. Can be used to charge radios and other small appliances.
AC CHARGER FOR GLOWSTAR	36,000.00	The mains charger will connect to a normal wall socket and run from AC mains. It can work from 85V to 265V AC. The mains charger will charge Glowstar Plus in 6 hours and Glowstar basic in 4 hours. There is no harm in leaving the mains charger permanently connected because the Glowstar charge circuit will control the charge and protect the battery from overcharge.

SOLAR CHARGE CONTROLLERS

Product	Retail	Description
SUNPOWER 6	42,000.00	Solar panel charge controller for panel arrays of up to 64W & loads up to 6 Amps DC. Microprocessor controlled mosfet based unit with 5 LED'S. Very low power consumption and PWM charging. Ideal for small lighting systems.
SPCC10 (12V& 24VDC) (10 AMPS)	82,500.00	Solar Panel Charge Controller for arrays & loads up to 10Amps. A high efficiency low cost unit ideal for small lighting systems which may require to be expanded at a future date. Adjustable voltage limits & four LED's for clear status indication. SPECIFY 12 OR 24V MODEL WHEN ORDERING.
SPCC10E (12/ 24V DC) (10 AMPS)	111,000.00	As above but with additional features eg., has a timer facility which makes it ideal for use in Solar systems for outdoor lighting. Current consumption is about 25% of the normal SPCC10. All "E" models have temperature compensation built in and are field selectable for 12 or 24V operation.
SPCC16E (12 / 24V DC) (16 AMPS)	113,000.00	Charge Controller for arrays & loads of up to 16 Amps DC. A very efficient unit that offers high specifications, reliability and quality at a competitive price. Adjustable voltage limits & five LED's for clear status indication. This is the best charge controller in the market.
SUNPOWER 30 (12 / 24V DC) (30 AMPS)	160,500.00	As above but for arrays & Loads of upto 30amps. A high efficiency low cost unit ideal for larger systems. SPECIFY 12 OR 24V MODEL WHEN ORDERING.
SUNPOWER 30+LCD (12/ 24VDC) (30 AMPS)	213,000.00	NEW. A 30 Amps Sollatek charge controller now with three digits display that continuously indicates your battery voltage.

DC SOLAR LIGHTS AND DC ELECTRICAL FITTINGS

DC ECOLITE (12 V) (8 WATT)	17,000.00	High quality low cost light. Designed for the no frills, lower cost market where reliability is still of critical importance. Efficient light using a low cost linear fluorescent tube. No RFI interference. Short circuit and reverse polarity protection. PULL CORD SWITCHES AVAILABLE ON REQUEST.
DC ECOLITE (12 V) (18 WATT)	46,000.00	As above but with 18 Watt linear tube but 12V DC operation. PULL CORD SWITCHES AVAILABLE ON REQUEST.
DC ECOLITE (24 V) (18 WATT)	49,500.00	As above but in 24V DC. PULL CORD SWITCHES AVAILABLE ON REQUEST.

DC LUMINA LIGHT (12V) (7,9,11WATT)	40,500.00	Very reliable giving more light from a PL bulb and consuming less power than any other light in the market. High quality finish in a tough housing designed to prevent intrusion by dust and insects. This is the next generation of solar lights. ON/OFF SWITCHES AVAILABLE ON REQUEST AND MUST BE SPECIFIED WITH ORDER.
DC LUMINA LIGHT (24V) (7,9,11WATT)	43,000.00	As above, but 24V DC operation. ON/OFF SWITCHES AVAILABLE ON REQUEST AND MUST BE SPECIFIED WITH ORDER.
DC LUMINA LIGHT (12V) (18WATT)	48,000.00	As above, but with 18Watt PL bulb. ON/OFF SWITCHES AVAILABLE ON REQUEST AND MUST BE SPECIFIED WITH ORDER
DC LUMINA LIGHT (24V) (18WATT)	50,500.00	As above, but with 24 DC operation. ON/OFF SWITCHES AVAILABLE ON REQUEST AND MUST BE SPECIFIED WITH ORDER

IMPORTANT NOTES.

1. Always use 'deep cycle' batteries (e.g. solar & **NOT** car batteries) in solar installations.
2. Always protect batteries with a Sollatek charge controller.
3. No Warranty on bulbs.

STANDARD TERMS AND CONDITIONS OF SALE TO AUTHORISED DISTRIBUTORS

GLOSSARY

U/V - UNDER VOLTAGE : Disconnects mains power in half a second.

0/V - OVER VOLTAGE : Disconnects mains power within twenty milliseconds (less than one cycle).

SP - SPIKE PROTECTION : Rated at 320V with energy of 160 Joules (minimum).

RFI - RADIO FREQUENCY INTERFERENCE FILTER.

DELIVERY

PRICES ARE EX-WORKS UNLESS OTHERWISE SPECIFIED

GUARANTEE

- **ALL SOLLATEK PRODUCTS CARRY A FIVE YEAR GUARANTEE ON PARTS AND LABOUR.EXCEPT WHERE EXPRESSLY SPECIFIED OTHERWISE**
- **WE GUARANTEE SPARE PARTS AND SERVICE SUPPORT AVAILABLE ON ALL PRODUCTS.**
- **GUARANTEE IS INVALIDATED IF THE PRODUCT HAS BEEN OPENED OR TAMPERED WITH BY THE CUSTOMER.**

PAYMENT TERMS

- 1. MINIMUM ORDER TSHS. 320,000/-**
- 2. THIRTY DAYS CREDIT IS AVAILABLE ON APPLICATION AT OUR DISCRETION.**
- 3. TWO PERCENT PER MONTH WILL BE CHARGED ON ALL OVERDUE ACCOUNTS.**