

Voltright™

SVS04E-22 VOLTAGE STABILISER

VOLTAGE PROTECTION AND STABILISATION
FOR ALL ELECTRICAL AND ELECTRONIC EQUIPMENT

Description

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

If the voltage rises or drops, the SVS will stabilise the output to ensure that the voltage reaching your equipment remains constant at 230V (+6%). For full input / output voltage profile, please see table in the next page.

The Sollatek SVS has a modern state of the art 7 LED display to indicate accurately the state of the input at all times and 5 LEDs to indicate the output voltage supplied to your load.

Applications

The SVS also protects your electrical equipment against power spikes and surges. Using the SVS ensures a stable, and clean voltage supply to your equipment.

The SVS is suitable for all electrical and electronic appliances, including: air conditioners, computers, fridges, TV, and satellites.

Features

- Microprocessor controlled stabiliser
- Solid state with no moving parts
- Requires no maintenance
- Very wide input voltage range (100V-260V)
- Excellent output voltage stability
- Includes surge and spike suppression
- Extremely fast response
- Incorporates over-voltage & under voltage disconnect (AVS function)
- 6 minute startup delay
- Incorporates TIMESAVE™ Function (10 second start-up delay after long duration powercut)
- Compact modern design incorporating lightweight, high grade flame retardant ABS
- Modern 7 segment LED display for input & output voltage
- British design



SVS04
with 2 outlets

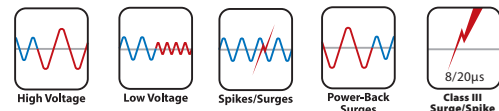
Features



Protection for



Protection from



Advanced features

- The Sollatek SVS boosts low voltage.
- The Sollatek SVS reduces high voltage.
- The Sollatek SVS disconnects the load (fridge, TV, PC etc) using its built-in Automatic Voltage Switcher (AVS™), when mains stabilisation within acceptable limits is outside its capability (available as an option in 3 phase models*).
- Automatically reconnects the load, but only after the mains has remained within acceptable limits for a period of three minutes (TimeSave™). This is to allow neutralisation of compressor gases, critical in such applications.
- Has a very wide voltage response range of 100V to 260V (-55% to 16%). (see table of input and output voltage responses).
- Incorporates TimeSave™ function
- Uses a unique zero voltage switching technique to achieve clean pure stabilised power.
- Incorporates full spike protection.
- Frequency compensated measurements.
- Frequency and voltage measurement smoothing in software to filter noise.
- Fault detection - senses if the measurements being made are unreasonable and disconnects output. Red and yellow LEDs flash alternately to indicate a fault.

General Specifications

Input/output range	
Input range	-55% to 16%.
Output accuracy	± 6%.
Frequency range	45Hz to 75Hz.
Regulator range @ 230V	+/-7% for input 218V-247V, -20% to +7% for input 100V-265V. Please input/output voltage table on the next page.
General	
Derating factor	10% to 15% per 10°C above 40°C.
Synchronization	Output synchronized to input.
Permissible overload	1000% for 100ms, 150% for 4 minutes, 110% for 15 minutes.
Load types	Designed to run lighting, motors, battery chargers, communications equipment, office equipment, SMPS, air-conditioners, compressors, industrial machines, medical equipment and others. Suitable for all domestic, commercial and industrial sites.
Technology	Transformer tap switching using relay based.
Efficiency	>97% (at 100% linear load).
Control	Microcontroller based control system provides self checks, system integrity monitoring and diagnostic indicators.
Control protection	Internal surge arrestors and filters in control circuit protect against disturbances. Filtering algorithms and fault tolerant software protect against disturbances and false measurements.
Ambient temperature range	0 to +55°C.
Relative humidity	>95%, non condensing.
Acoustic noise	< 45 dB (A).
Expected service life	> 10 years.
Standards	Manufactured to comply with :- ISO9001:2000, CE, EN 50081-1:1992, EN 50082-1:1998, EN 55022:1998, EN 61000-4-2:1995/1998, EN 61000-4-3:1996, EN 61000-4-4:1995, EN 61000-4-5:1995, EN 61000-4-6:1996, EN 61000-4-11:1994, DD ENV 50204, BS EN 61558-1, EN 60065, EN 60555.
Correction speed	750 Volts per second.
Response	Within 0.1 second.
Wait time on start up	6 Minute start up delay with TimeSave function of 10 seconds. Includes Quick start button. Different start up delay models available.
Efficiency	88% at 25% load, 94% at 50% load, 96% at 75% load, 97% at 100% load.
Power factors	Unaffected by load power factor.
AVS™ function	Automatic voltage switcher: output is switched off to protect device against over and under voltage (available on certain models only).
TimeSave™ function	Reduced startup delay if unit was off for more than the standard delay period to 10 seconds. Available on models with AVS function.

Input and Output voltage response

Input Voltage	Output Voltage	
95	OFF	
100	182	LVD
105	191	
110	200	LVR
115	209	
120	218	
125	227	
130	236	
140	219	
145	227	
150	235	
155	242	
160	216	
165	223	
170	230	
175	236	
180	243	
185	215	
190	221	
195	227	
200	232	
205	238	
215	215	
220	220	
225	225	
230	230	
235	235	
240	240	
250	215	
255	219	
260	224	HVR
265	228	HVD
270	OFF	

Output Voltage

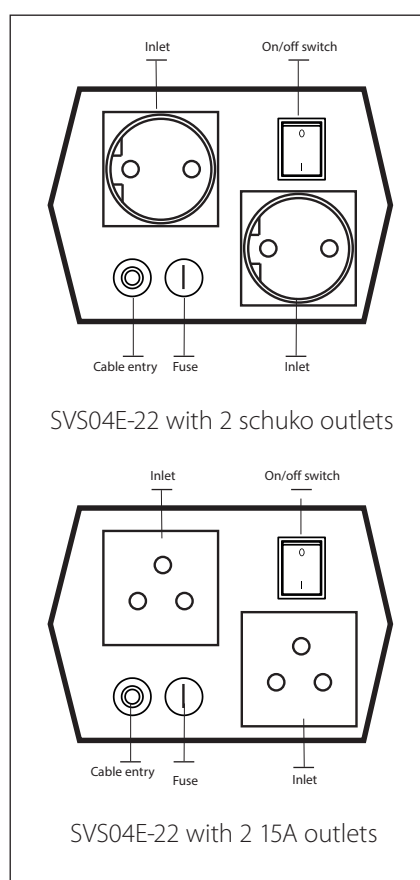
TAP UP	210
TAP DOWN	247
LVD	182

Range	Input	Output*
100-265V	182-247V	-20.9% - 7.4%
120-265V	218-247V	-8.7% - 7.4%
Tap Change	Output Voltage*	Output Accuracy*
Tap Up	210	-8.7%
Tap Down	247	7.4%
Max O/P Current	Max O/P Current	Leakage Power*
4A	4A	4A

* Applies at no load conditions

Rear panel

(showing connections)



ITEM

SVS04-22E, 4A, 1KVA 100-260V, 6MIN, EURO

PRODUCT CODE

98204E16



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ISO9001: 2008 accredited company

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For more information on Sollatek's Power protection Range refer to the VP Catalogue. or visit www.sollatek.com