

**VOLTAGE  
PROTECTION**
**VOLTRIGHT  
SVS04-22E**


# SVS04-22E 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 ( $\pm 7\%$ )\*. For full input / output voltage profile, please see table in the next page.

The Sollatek SVS04-22E has a modern state of the art LED display to accurately indicate the state of the input and the output voltage supplied to your load.

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.



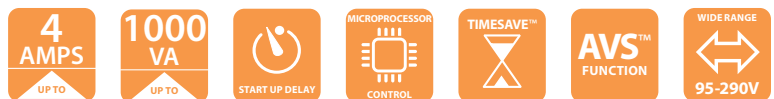
## Applications

The SVS04-22E is suitable for all electrical and electronic appliances, including: fridges/freezers, air conditioners, computers, TV/Hi-Fi, telecom/satellite appliances, vaccine fridges/freezers and medical refrigeration equipment.

## Features

- Microprocessor controlled stabiliser
- Solid state with no moving parts
- Requires no maintenance
- Extremely fast response
- Excellent output voltage stability
- Very wide input voltage range (110 - 287V)
- Includes surge and spike suppression
- 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

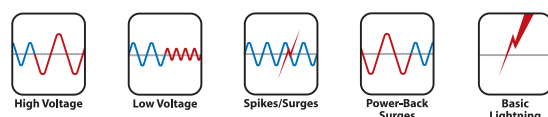
### Features:



### Protection for:



### Protection against:



\* For input voltage between 125 V to 280 V

## 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.
- Automatically reconnects the load, but only after the mains has remained within acceptable limits for a period of 10 seconds to 6 minutes depending on the model. (TimeSave™). This is to allow neutralisation of compressor gases, critical in such applications.
- Incorporates TimeSave™ function
- Uses a unique zero voltage switching technique to achieve clean pure stabilised power.
- Incorporates full surge and spike protection.
- 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.



### TimeSave™ Function

**TIMESAVE™ adds the following protective function:**

The Sollatek SVS04-22E 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.

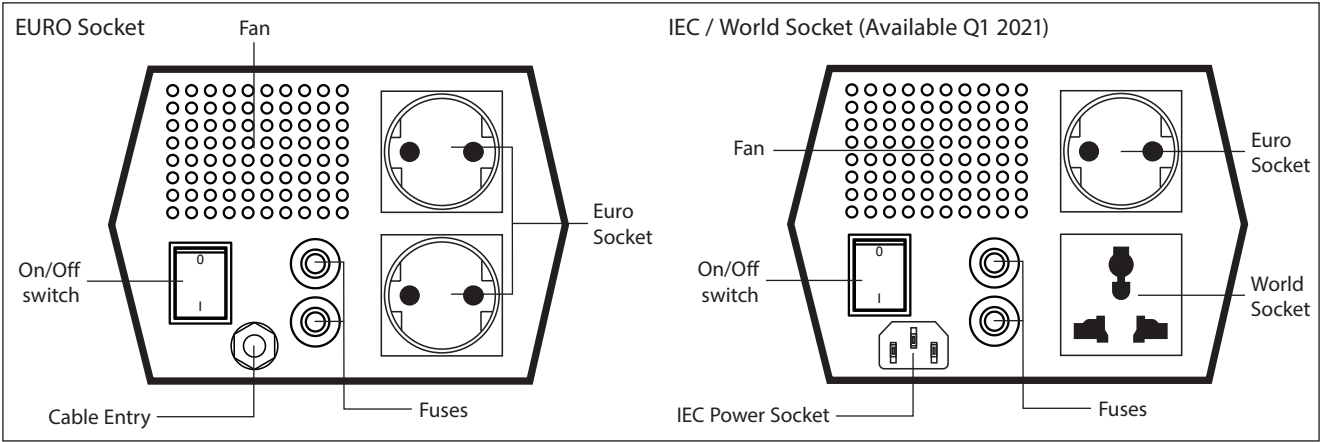
## Specification

<b>Input / Output Range</b>	
Input Range	110 V to 287 V
Output Range	201.8 V to 245 V
Output Accuracy	Between 125 V to 280 V (±7%)
Frequency Range	35 Hz to 65 Hz
Low Voltage Disconnect	110 V
Low Voltage Reconnect	116 V
High Voltage Reconnect	285 V
High Voltage Disconnect	287 V
<b>General</b>	
Derating Factor	10% to 15% per 10°C above 40°C
Synchronization	Output synchronized to input
Permissible Overload	1000% for 100 ms, 150% for 4 min, 110% for 15 min
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	88% at 25% load, 94% at 50% load, 96% at 75% load, 97% at 100% 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 protects against disturbances and false measurement.
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 min
Power Factor	Unaffected by load power factor
AVS™ Function	Automatic voltage switcher: output is switched off to protect device against over and under voltage
TimeSave™ Function	Reduced startup delay if unit was off for more than the standard delay period to 10 seconds.
<b>Mechanical &amp; Shipping</b>	
Unit Dimensions	162 x 132 x 275 mm
Unit Weight	7.2 kg

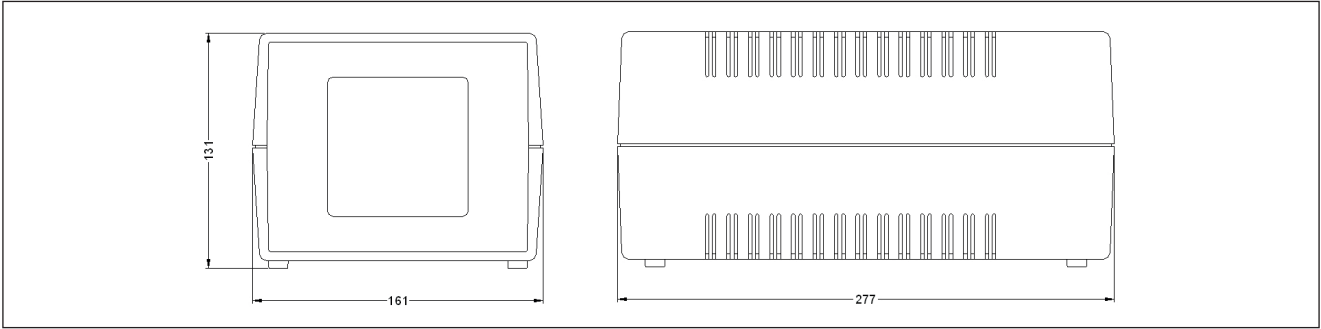
Input and Output Voltage Response

230 V																																						
Input	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280	285	290
Output	OFF	200/ OFF	209	218	227	236	210	217	225	233	249/ 211	218	225	232	238	209	215	221	227	233	239	244/ 210	215	220	225	230	235	240	245/ 209	214	218	222	226	231	235	239	243	OFF

Rear Panel (showing connections)



Dimensions (mm)



Packing and Shipping Details

SVS Packaging

Outer Carton

Pallet

Unit Quantity	Weight (kg)	Dimensions (mm)
1	7.5 kg	270 x 150 x 380 mm

Unit Quantity	Weight (kg)	Dimensions (mm)
2	17 kg	550 x 290 x 180

Unit Quantity	Weight (kg)	Dimensions (mm)
50	441	1200 x 1000 x 1100

Item	Product Code
SVS04-22E 4A 1kVA 110-260V 6MIN, Euro	98204E16
SVS04-22E 4A 1kVA 100-260V WS/SCH + IEC	98204E20



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For more information on Sollatek's Power Protection Range refer to the VP Catalogue or visit [www.sollatek.com](http://www.sollatek.com)

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**ISO9001: 2015 accredited company**  
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