

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 bright and clear LED display to accurately read the input and output voltage as well as three status LEDs for quick load status indication.

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, vaccine fridges/freezers, medical and laboratory equipment.

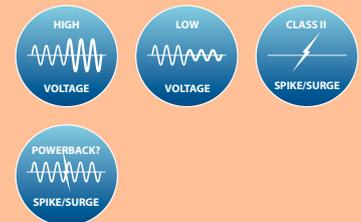
FEATURES

- 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 & under voltage disconnect (AVS™ function) when mains is extreme and outside working limits
- 6 minute startup delay to allow neutralisation of compressor gases, critical in such applications
- 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 and 3 status LED indicators
- British design

* For input voltage between 125 V to 280 V



PROTECTION AGAINST



FEATURES



PROTECTION FOR



ADDITIONAL FEATURES

- 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 indication through the status LEDs to easily identify faults.

What is TIMESAVE™?



TimeSave™ reduces the standard startup delay time from 6 minutes to just 10 seconds when mains has taken more than 6 minutes to return within the acceptable working limits of the SVS to provide more vital working time than any other stabiliser.

TECHNICAL SPECIFICATION

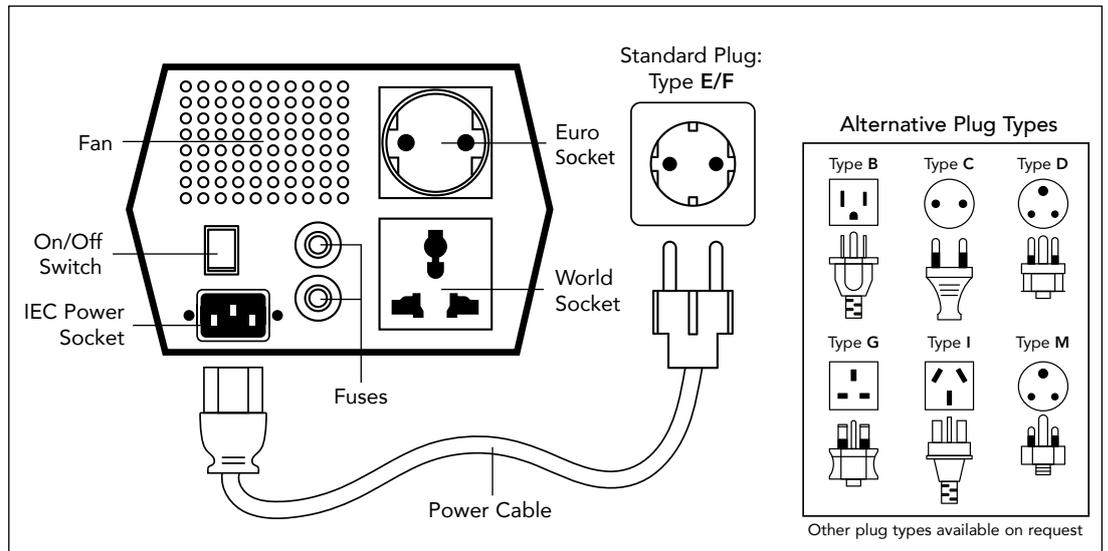
INPUT / OUTPUT RANGE	
Input Range	110 V to 287 V
Output Range	201.8 V to 245 V
Output Accuracy	Between 125 V to 280 V (±7%)
Frequency Range	35 Hz to 65 Hz
Low Voltage Disconnect	110 V
Low Voltage Reconnect	116 V
High Voltage Reconnect	285 V
High Voltage Disconnect	287 V
GENERAL	
Derating Factor	10% to 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	Fridges, freezers, Medical Cold Chain (vaccine fridges/freezers), laboratory and medical equipment
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	-30°C to +70°C when product is inactive -5°C to +55°C during use
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.
MECHANICAL	
Unit Dimensions	162 x 132 x 275 mm
Unit Weight	7.2 kg



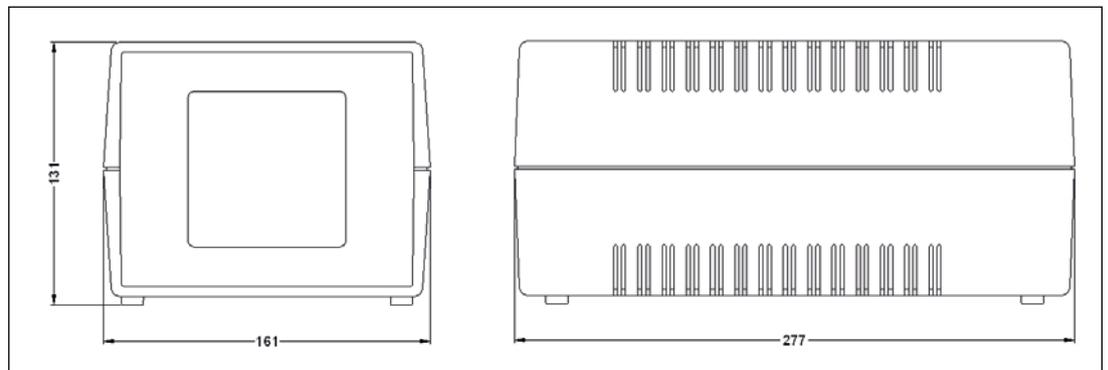
VOLTAGE RESPONSE

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

REAR PANEL LAYOUT



DIMENSIONAL DRAWING



PACKING & SHIPPING DETAILS

SVS Packaging

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

Outer Carton

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

Pallet

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

PRODUCT CODE

98204E20

DESCRIPTION

SVS04-22E 4A 1kVA 110-285V WS/SCH + IEC

SOLLATEK (UK) LIMITED

Sollatek House, Waterside Drive, Langley, Slough SL3 6EZ, United Kingdom

Tel: +44 (1753) 214 500
 Email: sales@sollatek.com
 Web: www.sollatek.com

ISO9001: 2015 accredited company

All weights and dimensions are approximate. Specifications are subject to change without prior notice. ©Sollatek (UK) Limited 2022. All Rights Reserved. SOLLATEK and the SOLLATEK device are the trade marks of the Sollatek group of companies.

