SVS45-22E

VOLTAGE STABILISATION AND PROTECTION FOR ALL ELECTRICAL AND ELECTRONIC EQUIPMENT

Actual unit may differ from shown

DESCRIPTION

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

The single-phase extended stabiliser has a wide input voltage range operating from 110 V to 305 V. If the Voltage rises or drops, the SVS will stabilise its output to ensure that the voltage reaching your equipment remains constant at 230 V (± 7%).

The Sollatek SVS45-22E is enclosed in a wall mountable metal case, featuring a clear LED digital display to indicate the state of the input and output voltage. Using the SVS ensures stable and clean voltage supply to your equipment. The SVS also protects your electrical equipment against supply spikes and surges.

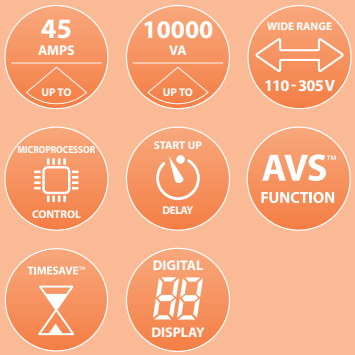
APPLICATIONS

The SVS45-22E is suitable for all electrical and electronic appliances, including fridges/freezers, vaccine fridges/freezers, medical and laboratory equipment. The 'E' for extended also signifies that it can operate in conditions where power fluctuations are severe and expected to drop down to very low levels.

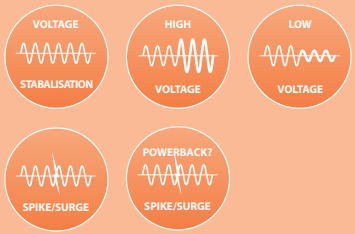
FEATURES

- Microprocessor controlled stabiliser
- Solid state with no moving parts
- Requires no maintenance
- Extremely fast response
- Excellent output voltage stability
- Very wide input range of 110V to 305V
- Built-in Sollatek AVS (Automatic Voltage Switcher) that provides a start-up delay which prevents continuous switching ON and OFF of the connected appliance when power is fluctuating – embedded in firmware
- Automatically switches off in instances where fluctuations are extreme and the SVS is unable to safely stabilise voltage.
- 10 second start-up delay
- The SVS has the advanced built in TimeSave function. When the mains returns to normal from a brownout, the SVS checks the duration of the off time and adjusts the wait period to avoid unnecessary delays
- Wall mountable robust metal casing
- Includes surge and spike suppression – Class III
- Frequency & voltage measurement smoothing in software to filter noise
- British Design

FEATURES



PROTECTION AGAINST



PROTECTION FOR

Voltright™

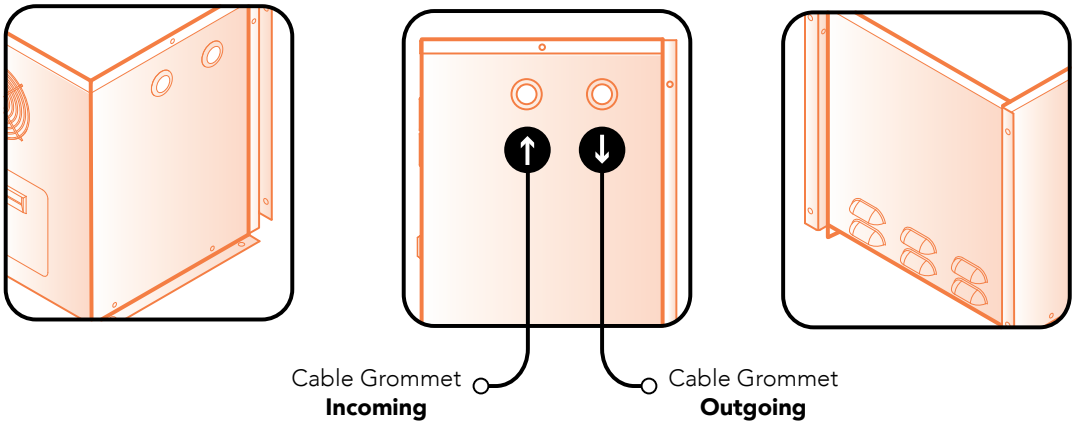
TECHNICAL SPECIFICATION

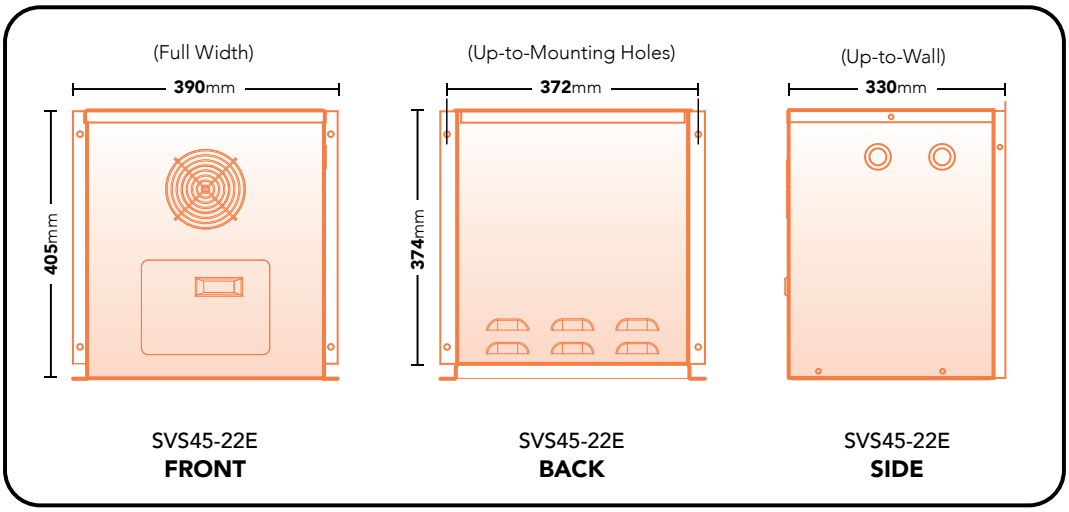
INPUT & OUTPUT					
Nominal Voltage			230 V		
Stabilisation Range	Input Voltage		110 to 305 V		
	Output Voltage		± 7% (214 to 246 V)		
Operating Voltage	Over Voltage	Disconnect	305 V		
		Reconnect	301 V		
	Under Voltage	Disconnect	110 V		
		Reconnect	115 V		
Frequency Range			45 Hz to 75 Hz		
Load Current			45 A		
GENERAL					
Derating Factor			10% to 15% per 10°C above 40°C		
Synchronization			Output synchronized to input		
Permissible Overload			Overload 1000% for 100ms, 150% for 4 minutes, 110% for 15 minutes		
Load Types			Suitable for all domestic, commercial and industrial appliances		
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		
Status Indicator			Digital Display		
Ambient Temp 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 61000-4-6:1996, EN 61000-4-11:1994, DD ENV 50204, BS EN 61558-1, EN 600651998, EN 55022:1998, EN 61000-4 2:1995/1998, EN 61000-4-3:1996, EN 61000-4-4:1995, EN 61000-4-5:1995, 60065, EN 60555		
Correction Speed			750 Volts per second		
Response			Within 0.1 second		
Wait Time on Start Up			10 seconds		
Power Factors			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					
Connection			Direct Wiring		
Unit Dimension WxHxD			390 x 405 x 330 mm	Weight	59.0 kg
Crate Dimensions WxHxD			460 x 620 x 390 mm	Weight	70.0 kg

VOLTAGE TABLE

INPUT	OUTPUT
0-105	OFF
110	206
115	216
120	225
125	235
130	223
135	232
140	220
145	228
150	236
155	220
160	230
165	237
170	224
175	230
180	237
185	222
190	228
195	234
200	220
205	225
210	231
215	236
220	220
225	225
230	230
235	235
240	219
245	224
250	228
255	233
260	238
265	221
270	226
275	230
280	234
285	238
290	240
295	246
300	250
305	255
306	OFF

DIMENSIONAL DIAGRAM





The diagrams presented are for illustrative purposes only.
Detailed drawings are available upon request.

PRODUCT CODE	DESCRIPTION
98245E00	SVS45-22E 45A 10kVA 110-305V 230V 7%

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