SVS20-22E

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 SVS20-22E 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.

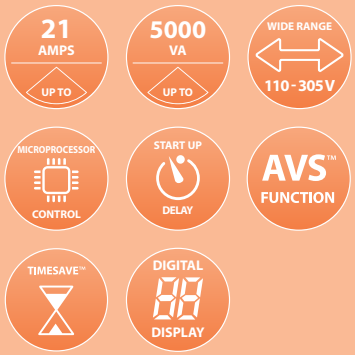
APPLICATIONS

The SVS20-22E 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.

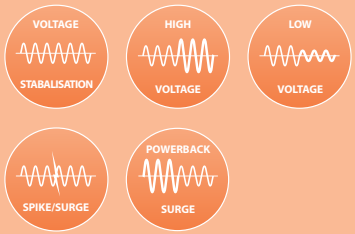
FEATURES

- Microprocessor controlled stabiliser
- Solid state with no moving parts
- Requires no maintenance
- Extremely fast response
- Excellent output voltage stability
- Very wide input range of 110 V to 305 V
- 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

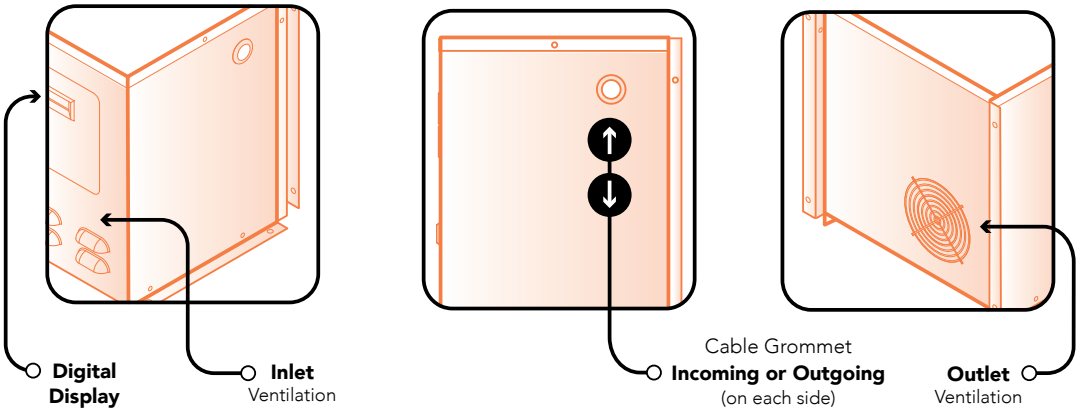
INPUT & OUTPUT			
Nominal Voltage			230 V
Stabilisation Range	Input Voltage		110 to 305 V
	Output Voltage		± 7% (214 to 246 V)
Operating Voltage	Over Voltage	Disconnect	305 V
		Reconnect	301 V
	Under Voltage	Disconnect	110 V
		Reconnect	115 V
Frequency Range			45 Hz to 75 Hz
Load Current			21 A
GENERAL			
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

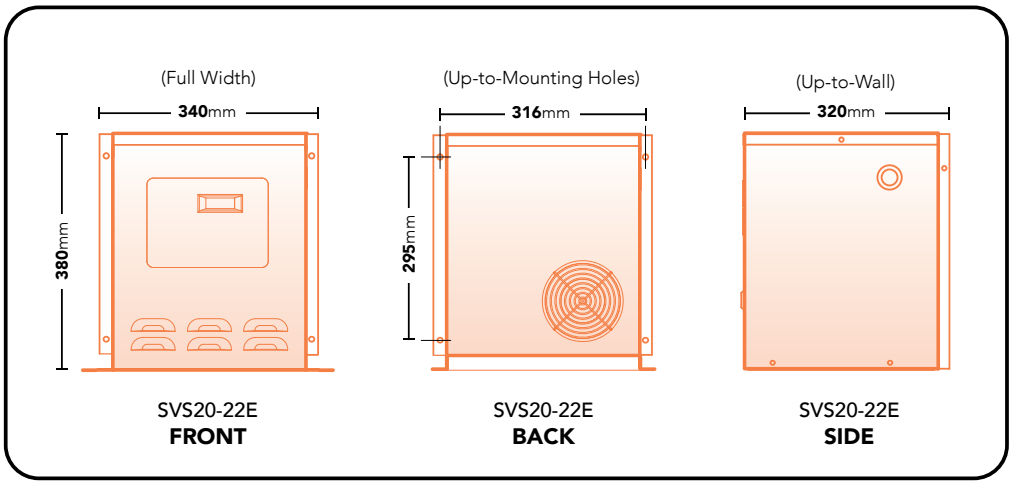
MECHANICAL					
Connection	Direct Wiring				
Unit Dimension WxHxD	340 x 380 x 320 mm	Weight	30.0 kg		
Crate Dimensions WxHxD	360 x 400 x 360 mm		33.0 kg	Unit QTY	1
Pallet Dimensions WxHxD	970 x 1200 x 800 mm		346.0 kg		10

VOLTAGE TABLE

INPUT	OUTPUT
0-105	OFF
110	205
115	215
120	225
125	234
130	223
135	230
140	220
145	226
150	235
155	221
160	230
165	236
170	222
175	230
180	234
185	222
190	227
195	233
200	220
210	230
215	235
220	220
225	225
230	230
235	235
240	240
245	223
250	227
255	232
260	237
265	220
270	225
275	230
280	233
285	237
290	240
295	246
300	250
306	OFF

DIMENSIONAL DIAGRAM





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

PRODUCT CODE	DESCRIPTION
9822055E	SVS20-22E 21A 5kVA 230V 6min EXT Range

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