

## SVS20-22E

### VOLTAGE STABILISATION AND PROTECTION FOR ALL ELECTRICAL AND ELECTRONIC EQUIPMENT

#### 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 ( $\pm 7\%$ ).

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.

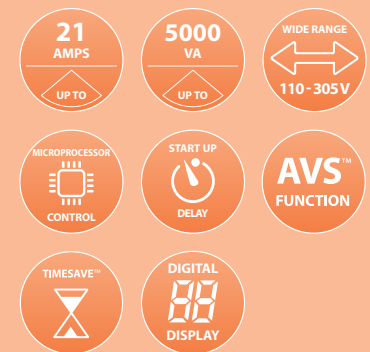
#### FEATURES

- 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

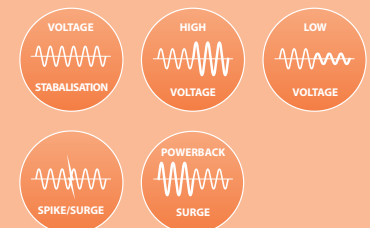


Actual unit may differ from shown

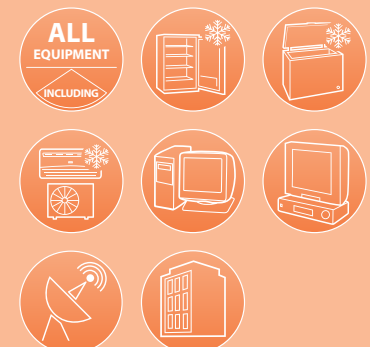
#### FEATURES



#### PROTECTION AGAINST



#### PROTECTION FOR



## 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 60065:1998, EN 55022:1998, EN 61000-4-2:1995/1998, EN 61000-4-3:1996, EN 61000-4-4:1995, EN 61000-4-5:1995, 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	
Crate Dimensions WxHxD		360 x 400 x 360 mm	
Pallet Dimensions WxHxD		970 x 1200 x 800 mm	
		Weight	30.0 kg
			33.0 kg
			346.0 kg
		Unit QTY	1
			10

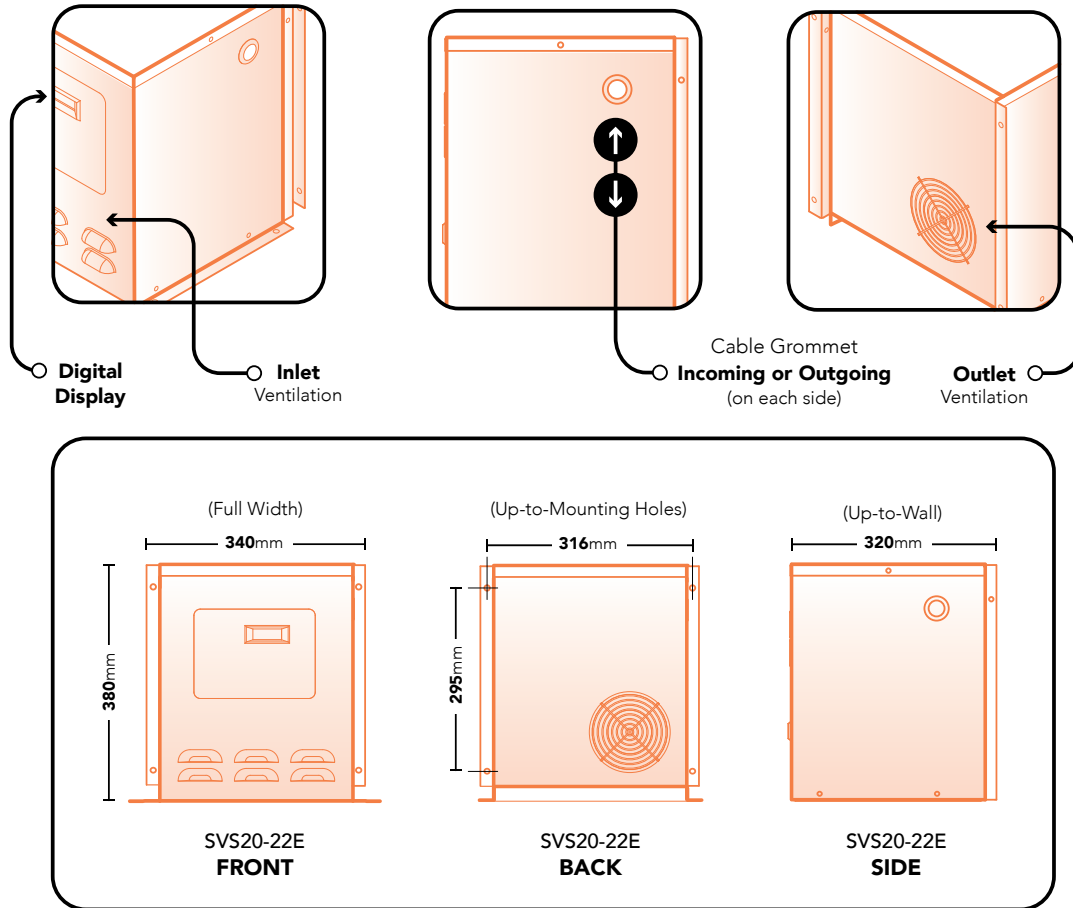
## VOLTAGE TABLE

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

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## DIMENSIONAL DIAGRAM



**i** 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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