

SVS20-11 & SVS20-22 VOLTAGE STABILISER

VOLTAGE STABILISATION AND PROTECTION FOR ALL ELECTRICAL AND ELECTRONIC EQUIPMENT

DESCRIPTION

The SVS20-11 and SVS20-22 are a precise voltage stabilisers designed to protect your appliances against the harmful consequences of an unpredictable power supply to maintain optimal performance and extend appliance life. Its continuous monitoring and correction of the incoming supply ensures a consistent and reliable output, preserving your equipment's operational integrity.

In response to voltage fluctuations, the SVS swiftly stabilises the output, maintaining a steadfast voltage delivery of 230 V ($\pm 6\%$) or 110 V ($\pm 6\%$) for US voltage systems — within the operational range specified by the unit (refer to the table on the subsequent page for details).

Both include a 7-LED display, providing precise and real-time insights into the input status, complemented by 5 LEDs accurately depicting the output voltage supplied to your load.

APPLICATIONS

The SVS20-11 and SVS20-22 are suitable for all electrical and electronic appliances, including: air conditioners, computers, fridges, TV, satellite, and any electrical appliance rated up to 20 A.

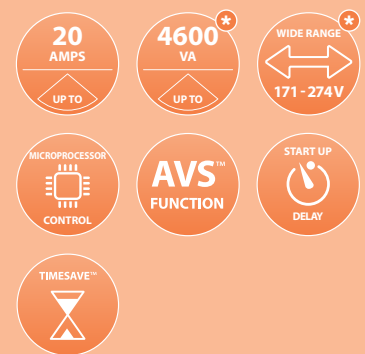
FEATURES

- Microprocessor controlled stabiliser
- Solid state with no moving parts
- Very wide input voltage range (-26% to 19%)
- Output voltage stability ($\pm 6\%$)
- Includes surge and spike suppression and protection
- Incorporates over & under voltage disconnect (AVS™ function) when mains is extreme and outside working limits
- 10 second startup delay as standard to allow neutralisation of compressor gases, critical in such applications (modifiable)
- Incorporates TIMESAVE™ Function (10 second start-up delay after long duration powercut)
- Compact modern design incorporating lightweight, high grade flame retardant ABS
- Small and lightweight unit
- British Design

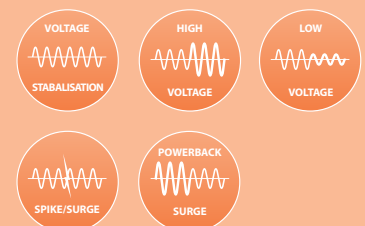


Actual unit may differ from shown

FEATURES



PROTECTION AGAINST



PROTECTION FOR



Always ensure that the current rating of your appliance does not exceed the current rating of the corresponding SVS model.

*4600 VA rating and input range apply to the SVS20-22 at 230 V
See technical specification table for SVS20-11

TECHNICAL SPECIFICATION

INPUT & OUTPUT				
Model		SVS20-11		SVS20-22
Nominal Voltage		115 V		230 V
Stabilisation Range*	Input Voltage (-26% to 19%)	86 to 137 V		171 to 274 V
	Output Voltage (±6%)	108 to 122 V		216 to 244 V
Operating Voltage	Over Voltage	Disconnect	147 V	291 V
		Reconnect	142 V	289 V
	Under Voltage	Disconnect	75 V	147 V
		Reconnect	78 V	153 V
Output Power		2300 VA		4600 VA
Frequency Range		45 to 75 Hz		
Load Current		20 A		
GENERAL				
Derating Factor		10% to 15% per 10°C above 40°C		
Synchronisation		Output synchronised to input		
Permissible Overload		Overload 1000% for 100 ms, 150% for 4 mins, 110% for 15 mins		
Status Indicator		x7 LEDs for input voltage status x5 LEDs for output voltage status		
Technology		Transformer tap switching using relays		
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		
Ambient Temp Range		0°C 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		10 sec (modifiable, for refrigeration use 3 min)		
Power Factors		Unaffected by load power factor		
AVS™ Function		Automatic Voltage Switcher: Output is switched off to protect device against over & under voltage and automatically reconnects when safe		
TimeSave™ Function		Reduced startup delay if unit was off for more than the standard delay period to 10 seconds		
MECHANICAL				
Connection		US NEMA 5-20R Socket		Terminal or Cable
Unit Dimension WxHxD		160 x 130 x 275 mm		160 x 130 x 350 mm
Unit Weight		7.0 kg		10.5 kg
Packing	Carton	Pallet	Carton	Pallet
Dimensions WxHxD (mm)	390 x 180 x 560	1000 x 1050 x 1200	390 x 180 x 560	1000 x 880 x 1200
Quantity	1 cart. (2 unit)	25 cart. (50 units)	1 cart. (2 unit)	20 cart. (40 units)
Weight	16.1 kg	420.0 kg	23.5 kg	486.0 kg

VOLTAGE TABLE

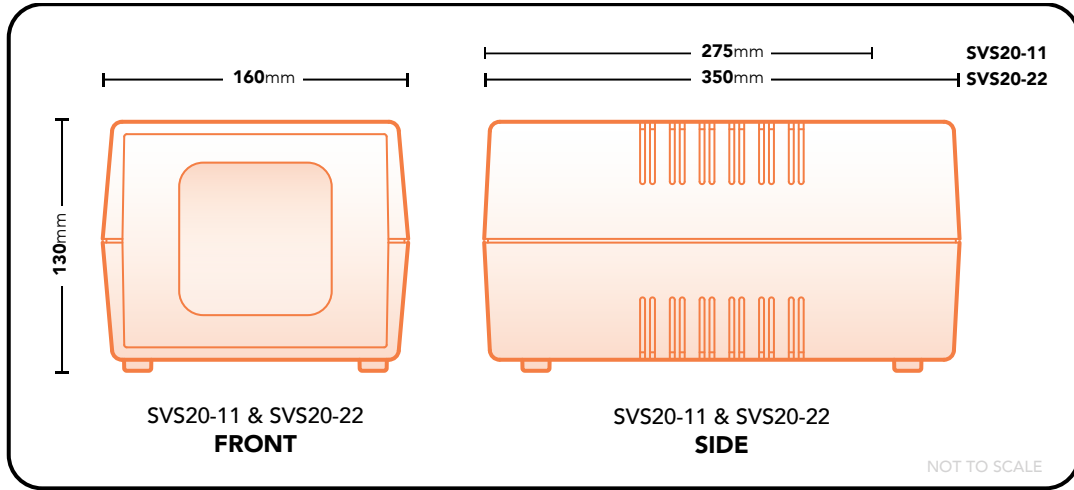
230 V	
INPUT	OUTPUT
0-146	OFF
147	191
155	196
165	208
175	221
185	233
195	219
205	230
210	236
215	215
225	225
235	235
240	240
245	218
255	227
265	236
275	245
285	255
287	OFF
115 V	
INPUT	OUTPUT
0-75	OFF
76	96
80	101
85	107
90	114
95	120
100	112
105	118
110	110
115	115
120	120
125	111
130	116
135	120
140	125
143	127
144	OFF

All weights and dimensions are approximate. Specifications are subject to change without prior notice. © Sollatek (UK) Limited 2024. All Rights Reserved.

*For input voltage beyond this range, output accuracy is ±10% (Refer to table)

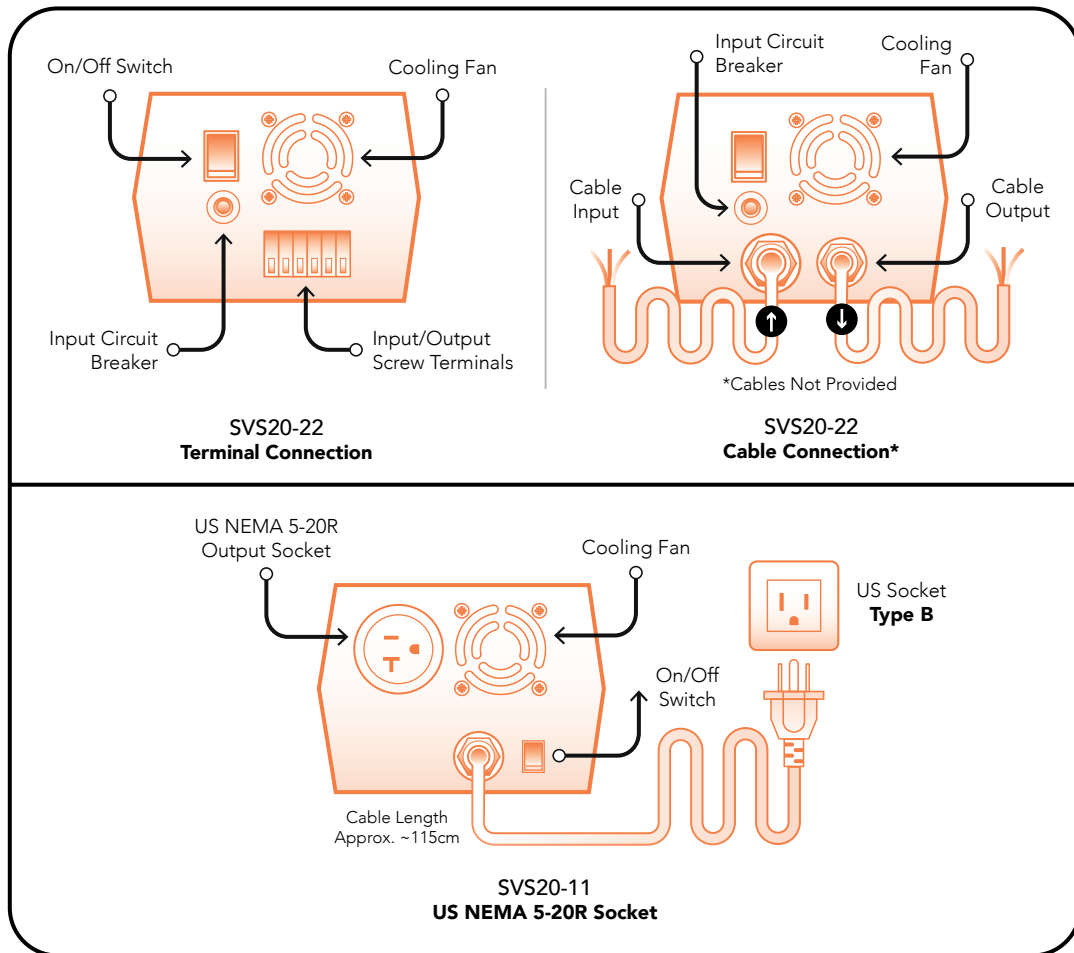


DIMENSIONAL DIAGRAM



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

REAR PANEL DIAGRAM



+ The SVS20-22 is available with two alternative rear panels allowing for a terminal or cable connection as shown, SVS20-11 available with US NEMA 5-20R Socket only.

PRODUCT CODE	DESCRIPTION
98220511	SVS20-11 20A 115VAC US Socket Nema 5-20R
98220000	SVS20-22 21A Plastic 230V 50/60Hz - Term
98220060	SVS20(16)-22 Cable 20A/16A-CE 230/1/50

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