

## AC Automatic Voltage Stabilisers & Regulators

**Cost Efficient Voltage Stabilisation Solutions with Fast Speed of Response and High Output Voltage Accuracy**

AC mains voltage fluctuations can cause equipment to behave erratically and malfunction. Some systems may even break down due to these fluctuations, noise or spikes. Failure to ensure the incoming mains voltage is stable and clean, can often result in costly equipment repairs.

Ashley-Edison's electromechanical / electronic servo design **SES Series** Voltage Stabilisers, are designed to ensure that should the incoming mains voltage drift high or low, the output voltage will remain continuously constant. Characterised by high efficiency, they are completely unaffected by power factor, load and frequency variations. They are able to withstand high instantaneous overloads and do not generate any magnetic interference. Compact in size, quiet in operation, these voltage stabilisers are suitable for indoor use and may be located near to sensitive equipment.

**Soft Switch-ON** feature will ensure that the Voltage Stabiliser is at its minimum upon switch-on before it commence full stabilization. Lack of this feature may cause high output voltage surge in stabiliser.

## SES SERIES SINGLE PHASE 1KVA ~ 100KVA



### Models:

#### High Voltage (H) Models

220V; 230V or 240V (Single Phase)

#### Low Voltage (L) Models

100V; 110V or 120V (Single Phase)

### Features:

- **Wide Range of Voltage Stabiliser**  
Single Phase Up to 100KVA
- **Input Swing Range**  
Input Swing Range Available from  $\pm 15\%$ ,  $\pm 20\%$ ,  $\pm 25\%$ ,  $\pm 30\%$ , (To Specify)
- **Output Voltage Regulation**  
Output Voltage Accuracy  $\pm 1\%$ ,
- **High Efficiency**  
Better than 98%
- **Standard Features**  
**Model SES 1H ~ 10H**  
Input Circuit Breaker  
Universal Socket  
**Model SES 15H ~ 100H**  
Input Circuit Breaker  
Voltmeter, Ammeter  
Bypass Control Switch
- **Optional Accessories**  
Output circuit breaker  
Ammeter  
Voltmeter  
Manual maintenance bypass switch  
Over/low voltage protection  
Lightning arrester
- **Compliance with International Standards**  
BS EN50081-1;2/IEC 61000-4-3;4  
BS EN5490/IEC 60529
- **CE Conformity**  
EN55022, EN50082-2, ENV50140-1
- **Warranty**  
2 Years

### Applications:

- Computers
- Medical Equipment
- Electronics Equipment
- Testing Equipment
- Laboratory Equipment
- POS Terminals
- Process Control Systems
- TV/Radio Broadcasting Stations
- Elevators
- Audio/Video Systems
- Security Systems
- Production Line
- CNC Equipment
- SMT Equipment



## AC Automatic Voltage Stabilisers & Regulators

### Technical Specifications

<b>Input Voltage</b>	230VAC $\pm$ 20% Single Phase
<b>Output Voltage</b>	Presetable for any voltage between 220V; 230V or 240V.
<b>Output Voltage Accuracy</b>	$\pm$ 1%
<b>Frequency</b>	47 – 65 Hz
<b>Response Time</b>	<1.5ms
<b>Correction Time</b>	A 10% supply variation will be corrected to within 2.5% in 0.6 seconds.
<b>Efficiency</b>	98%
<b>Power Factor</b>	Any lagging to 0.95 leading
<b>Surge ratings</b>	10 x max current rating for 2 seconds 3 x max current rating for 1 minutes 2 x max current rating for 5 minutes
<b>Surge Suppression</b>	Protect loads against high-energy spikes and transient voltage.

<b>Total Harmonic Distortion</b>	Less than 1%
<b>Soft Switch-ON</b>	Ensure that the output voltage is at its minimum upon Switch-On before it commence full stabilization
<b>Environment</b>	Temperature range $-15$ to $45$ °C. Derate by 2% for each additional °C Up to max $60$ °C. Suitable for indoor tropical use 95% RH (non-condensing). Maximum altitude 1000m. Derate by 2.5% for each additional 500m.
<b>Construction</b>	Enclosures to IP20, BS EN5490 / IEC 60529
<b>Conformance</b>	BS EN50081-1;2 / IEC 61000-4-3;4
<b>CE Conformity</b>	EN55022, EN50082-2, ENV50140-1
<b>Warranty</b>	Two Years
<b>Standard Feature</b>	Input circuit breaker
<b>Optional Accessories</b>	Over / Low voltage protection. Voltmeter Ammeter Bypass switch

Note: Optional accessories added may affect dimension, subject to confirmation.

### Single Phase Model: SES-H-S20

Model:	Rating KVA	Amps @ 220V	Amps @ 230V	Amps @ 240V	Dimensions (mm) W x H x D	Weight (Kgs)
SES 1H-S20	1	4.5	4.3	4.2	210 x 260 x 420	23
SES 2H-S20	2	9.1	8.7	8.3	210 x 260 x 420	23.5
SES 3H-S20	3	13.6	13	12.5	210 x 260 x 420	24
SES 4H-S20	4	18.2	17.4	16.7	210 x 260 x 420	27.5
SES 5H-S20	5	23	22	21	210 x 260 x 420	28
SES 8H-S20	8	36	35	33	270 x 460 x 490	50
SES 10H-S20	10	45	44	42	270 x 460 x 490	52
SES 15H-S20	15	68	65	63	270 x 460 x 490	63
SES 20H-S20	20	91	87	83	400 x 580 x 500	84
SES 30H-S20	30	136	130	125	500 x 700 x 600	124
SES 40H-S20	40	182	174	167	500 x 1170 x 600	232
SES 50H-S20	50	227	217	208	500 x 1170 x 600	252
SES 60H-S20	60	273	261	250	500 x 1170 x 600	290
SES 75H-S20	75	341	326	313	500 x 1170 x 600	350

Model SES 1H ~ 5H are supplied with Input Breaker, Input/Output Terminals and Output Universal Socket.

Model SES 8H ~ 75H are supplied with Input Breaker, Input/Output Terminals, Output Voltmeter, Ammeter, Bypass Control Switch and Castors.

- Note: 1) 120V options available on order  
2) Special voltage configurations available on order  
3) Higher KVA rating options available on order

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