

## 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 stabilisation. Lack of this feature may cause high output voltage surge in stabiliser.

## SES SERIES SINGLE PHASE (LOW VOLTAGE) 1KVA ~ 50KVA



### Models:

#### 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 Feature**  
**Model SES 1L ~ 8L**  
Input Circuit Breaker  
Universal Socket  
**Model SES 10L ~ 50L**  
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>	120VAC $\pm$ 15% Single Phase	<b>Total Harmonic Distortion</b>	Less than 1%
<b>Output Voltage</b>	Pre-settable for any voltage between 100V; 110V or 120V.	<b>Soft Switch-ON</b>	Ensure that the output voltage is at its minimum upon Switch-On before it commence full stabilization
<b>Output Voltage Accuracy</b>	$\pm$ 1%	<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>Frequency</b>	47 – 65 Hz	<b>Construction</b>	Enclosures to IP20, BS EN5490 / IEC 60529
<b>Response Time</b>	<1.5ms	<b>Conformance</b>	BS EN50081-1;2 / IEC 61000-4-3;4
<b>Correction Time</b>	A 10% supply variation will be corrected to within 2.5% in 0.6 seconds.	<b>CE Conformity</b>	EN55022, EN50082-2, ENV50140-1
<b>Efficiency</b>	98%	<b>Warranty</b>	Two Years
<b>Power Factor</b>	Any lagging to 0.95 leading	<b>Standard Feature</b>	Input circuit breaker
<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>Optional Accessories</b>	Over / Low voltage protection. Voltmeter Ammeter Bypass switch
<b>Surge Suppression</b>	Protect loads against high-energy spikes and transient voltage.		

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

### Single Phase Model: SES-L-S15 ( Low Voltage)

Model:	Rating KVA	Amps @ 100V	Amps @ 110V	Amps @ 120V	Dimensions (mm) W x H x D	Weight (Kgs)
SES 1L-S15	1	10	9	8.3	210 x 260 x 420	22
SES 2L-S15	2	20	18	16.6	210 x 260 x 420	22.5
SES 3L-S15	3	30	27	25	210 x 260 x 420	23
SES 4L-S15	4	40	36	33	210 x 260 x 420	26.5
SES 5L-S15	5	50	46	42	210 x 260 x 420	27
SES 8L-S15	8	80	73	67	270 x 460 x 490	47
SES 10L-S15	10	100	91	83	400 x 580 x 500	55
SES 15L-S15	15	150	136	125	500 x 700 x 600	78
SES 20L-S15	20	200	182	167	500 x 700 x 600	110
SES 30L-S15	30	300	273	250	500 x 1170 x 600	220
SES 40L-S15	40	400	364	333	500 x 1170 x 600	245

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

Model SES 8L ~ 40L are supplied with Input Breaker, Input/Output Terminals, Output Voltmeter, Ammeter, Bypass Control Switch and Castors.

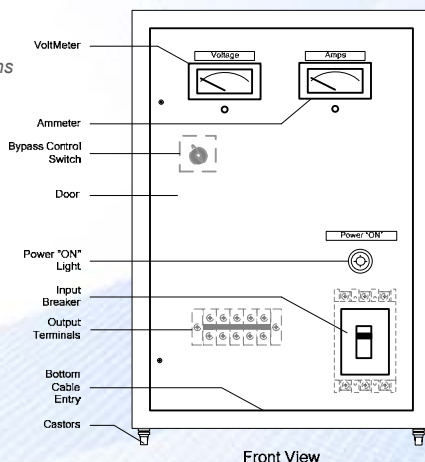
Note: 1) Special voltage configurations available on order  
2) Higher KVA rating options available on order

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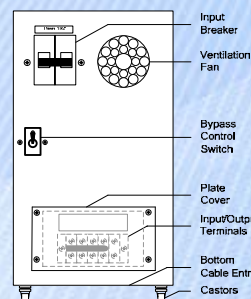


### Applications

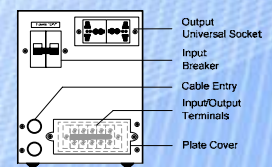
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- Medical Equipment
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Front View  
SES-10L ~ SES-40L



REAR VIEW  
SES-8L



REAR VIEW  
SES-1L ~ SES-5L

