

## 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 $\pm$ 15% Single Phase
<b>Output Voltage</b>	Preselectable 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-S15

Model:	Rating KVA	Amps @ 220V	Amps @ 230V	Amps @ 240V	Dimensions (mm) W x H x D	Weight (Kgs)
SES 1H-S15	1	4.5	4.3	4.2	210 x 260 x 420	21
SES 2H-S15	2	9.1	8.7	8.3	210 x 260 x 420	21.5
SES 3H-S15	3	13.6	13	12.5	210 x 260 x 420	22
SES 4H-S15	4	18.2	17.4	16.7	210 x 260 x 420	23.5
SES 5H-S15	5	23	22	21	210 x 260 x 420	24
SES 8H-S15	8	36	35	33	210 x 260 x 420	29
SES 10H-S15	10	45	44	42	210 x 260 x 420	30
SES 15H-S15	15	68	65	63	270 x 460 x 490	54
SES 20H-S15	20	91	87	83	270 x 460 x 490	60
SES 30H-S15	30	136	130	125	500 x 700 x 600	110
SES 40H-S15	40	182	174	167	500 x 700 x 600	120
SES 50H-S15	50	227	217	208	500 x 900 x 600	140
SES 60H-S15	60	273	261	250	500 x 1170 x 600	234
SES 75H-S15	75	341	326	313	500 x 1170 x 600	254
SES 100H-S15	100	455	435	417	500 x 1170 x 600	316

Model SES 1H ~ 10H are supplied with Input Breaker, Input/Output Terminals and Output Universal Socket.

Model SES 15H ~ 100H are supplied with Input Breaker, Input/Output Terminals, Output Voltmeter, Ammeter, Bypass Control Switch and Castors.

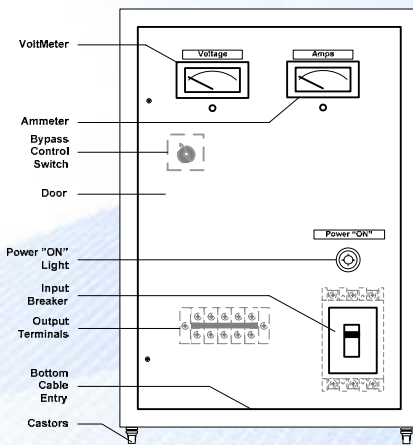
- Note: 1) 120V options available on order  
2) Special voltage configurations available on order  
3) Higher KVA rating options available on order

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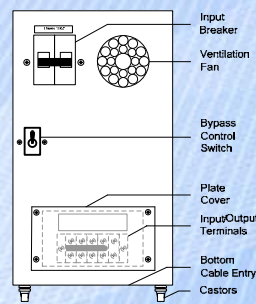


### Applications

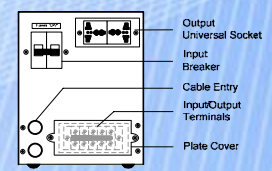
- Computers
- Medical Equipment
- Electronics Equipment
- Testing Equipment
- Laboratory Equipment
- POS Terminals
- Process Control Systems
- TV/Radio Broadcasting Stations
- Elevators
- Audio/Video Systems
- Security Systems
- Production Line
- CNC Equipment



Front View  
SES-30H ~ SES-100H



REAR VIEW  
SES-15H ~ SES-20H



REAR VIEW  
SES-1H ~ SES-10H



## 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.

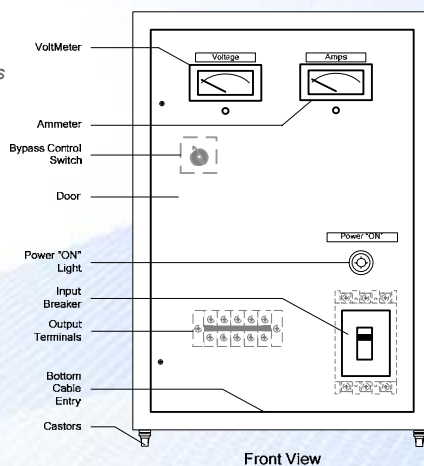
- Note: 1) 120V options available on order  
2) Special voltage configurations available on order  
3) Higher KVA rating options available on order

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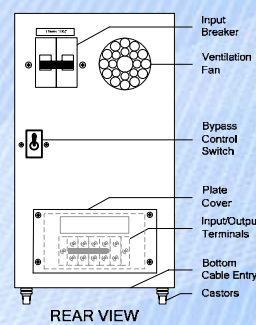


### Applications

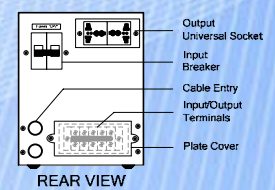
- Computers
- Medical Equipment
- Electronics Equipment
- Testing Equipment
- Laboratory Equipment
- POS Terminals
- Process Control Systems
- TV/Radio Broadcasting Stations
- Elevators
- Audio/Video Systems
- Security Systems
- Production Line
- CNC Equipment



SES-20H ~ SES-75H



SES-8H ~ SES-15H



SES-1H ~ SES-5H



## AC Automatic Voltage Stabilisers & Regulators

### Technical Specifications

<b>Input Voltage</b>	230VAC $\pm$ 25% Single Phase
<b>Output Voltage</b>	Pre-settable 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-S25

Model:	Rating KVA	Amps @ 220V	Amps @ 230V	Amps @ 240V	Dimensions (mm) W x H x D	Weight (Kgs)
SES 1H-S25	1	4.5	4.3	4.2	210 x 260 x 420	25
SES 2H-S25	2	9.1	8.7	8.3	210 x 260 x 420	25.5
SES 3H-S25	3	13.6	13	12.5	210 x 260 x 420	26
SES 4H-S25	4	18.2	17.4	16.7	210 x 260 x 420	29
SES 5H-S25	5	23	22	21	210 x 260 x 420	30
SES 8H-S25	8	36	35	33	270 x 460 x 490	52
SES 10H-S25	10	45	44	42	270 x 460 x 490	58
SES 15H-S25	15	68	65	63	400 x 580 x 500	84
SES 20H-S25	20	91	87	83	500 x 700 x 600	120
SES 30H-S25	30	136	130	125	500 x 1170 x 600	232
SES 40H-S25	40	182	174	167	500 x 1170 x 600	256
SES 50H-S25	50	227	217	208	500 x 1170 x 600	314
SES 60H-S25	60	273	261	250	TBA	
SES 75H-S25	75	341	326	313	TBA	

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

Model SES 15H ~ 75H are supplied with Input Breaker, Input/Output Terminals, Output Voltmeter, Ammeter, Bypass Control Switch and Castors.

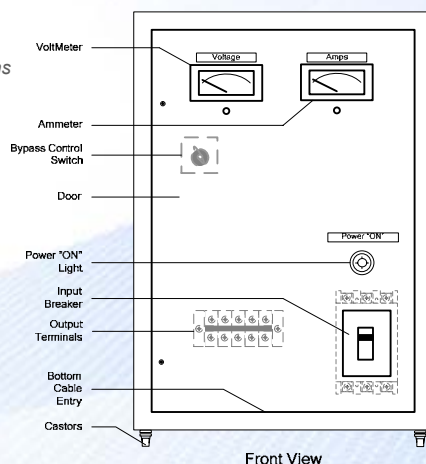
- Note: 1) 120V options available on order  
2) Special voltage configurations available on order  
3) Higher KVA rating options available on order

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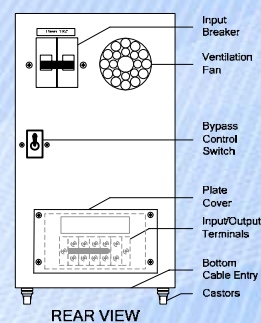


### Applications

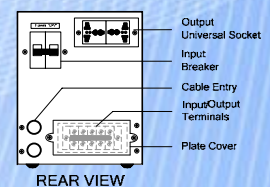
- Computers
- Medical Equipment
- Electronics Equipment
- Testing Equipment
- Laboratory Equipment
- POS Terminals
- Process Control Systems
- TV/Radio Broadcasting Stations
- Elevators
- Audio/Video Systems
- Security Systems
- Production Line
- CNC Equipment



SES-15H ~ SES-75H



SES-8H ~ SES-10H



SES-1H ~ SES-5H



## AC Automatic Voltage Stabilisers & Regulators

### Technical Specifications

<b>Input Voltage</b>	230VAC $\pm$ 30% 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-S30

Model:	Rating KVA	Amps @ 220V	Amps @ 230V	Amps @ 240V	Dimensions (mm) W x H x D	Weight (Kgs)
SES 1H -S30	1	4.5	4.3	4.2	210 x 260 x 420	28
SES 2H -S30	2	9.1	8.7	8.3	210 x 260 x 420	28.5
SES 3H -S30	3	13.6	13	12.5	210 x 260 x 420	29
SES 4H -S30	4	18.2	17.4	16.7	210 x 260 x 420	35
SES 5H -S30	5	23	22	21	210 x 260 x 420	36
SES 8H -S30	8	36	35	33	270 x 460 x 490	57
SES 10H -S30	10	45	44	42	270 x 460 x 490	68
SES 15H -S30	15	68	65	63	400 x 580 x 500	95
SES 20H -S30	20	91	87	83	500 x 900 x 600	132
SES 30H -S30	30	136	130	125	500 x 1170 x 600	253
SES 40H -S30	40	182	174	167	500 x 1170 x 600	316

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

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

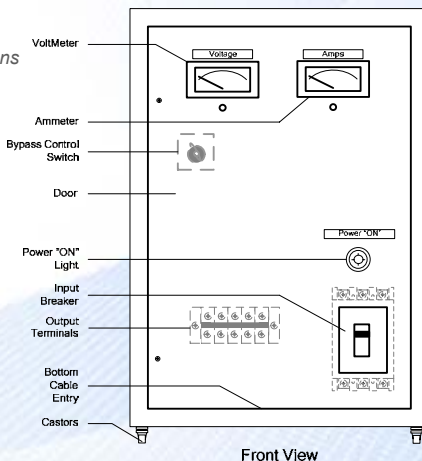
- Note: 1) 120V options available on order  
2) Special voltage configurations available on order  
3) Higher KVA rating options available on order

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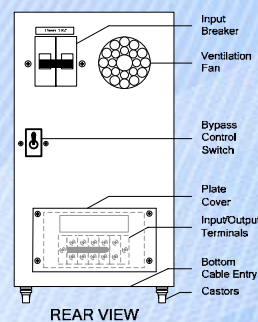


### Applications

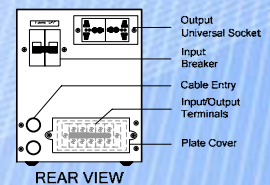
- Computers
- Medical Equipment
- Electronics Equipment
- Testing Equipment
- Laboratory Equipment
- POS Terminals
- Process Control Systems
- TV/Radio Broadcasting Stations
- Elevators
- Audio/Video Systems
- Security Systems
- Production Line
- CNC Equipment



SES-15H ~ SES-40H



SES-8H ~ SES-10H



SES-1H ~ SES-5H

