

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



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Technical Specifications

Input Voltage	230VAC \pm 30% Single Phase
Output Voltage	Presetable for any voltage between 220V; 230V or 240V.
Output Voltage Accuracy	\pm 1%
Frequency	47 – 65 Hz
Response Time	<1.5ms
Correction Time	A 10% supply variation will be corrected to within 2.5% in 0.6 seconds.
Efficiency	98%
Power Factor	Any lagging to 0.95 leading
Surge ratings	10 x max current rating for 2 seconds 3 x max current rating for 1 minutes 2 x max current rating for 5 minutes
Surge Suppression	Protect loads against high-energy spikes and transient voltage.

Total Harmonic Distortion	Less than 1%
Soft Switch-ON	Ensure that the output voltage is at its minimum upon Switch-On before it commence full stabilization
Environment	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.
Construction	Enclosures to IP20, BS EN5490 / IEC 60529
Conformance	BS EN50081-1;2 / IEC 61000-4-3;4
CE Conformity	EN55022, EN50082-2, ENV50140-1
Warranty	Two Years
Standard Feature	Input circuit breaker
Optional Accessories	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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