

## 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, utilizing an **Advanced Digital Controller** for our Electromechanical / Electronic Servo **SES Series** Voltage Stabilisers, are designed to ensure that, should the incoming mains voltage drift high or low, the output voltage remain continuously constant. Characterised by high efficiency, they are completely unaffected by Power Factor, Load and Frequency variations. They are capable of withstanding 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.

Our Voltage Stabilisers are equipped with **Bypass Control Switches**. These switches can be activated when required.

**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.



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### Models:

#### High Voltage (H) Models

380/220V; 400/230V or 415/240V  
(Three Phase)

#### Low Voltage (L) Models

200/115V; 208/120V or 220/127V  
(Three Phase)

### Features:

- **Wide Range of Voltage Stabiliser**  
Three Phase Up to 500KVA
- **Input Swing Range**  
Input Swing Range Available from  $\pm 15\%$ ,  $\pm 20\%$ ,  $\pm 25\%$ ,  $\pm 30\%$ ,  $\pm 35\%$ ,  
(To Specify)
- **Output Voltage Regulation**  
Output Voltage Accuracy  $\pm 0.5\%$ ,
- **High Efficiency**  
Better than 98%
- **Independent Phase Control Circuit**  
Sensing on all Three Individual Phases
- **Soft Switch-ON**  
Ensure that the Voltage Stabiliser is at its minimum before it commence full stabilization
- **Standard Protection Features**  
Input circuit breaker  
Over/low voltage protection  
Phase-failure protection  
Bypass control switch  
Voltmeter / Selector switch (Internal)
- **Optional Accessories**  
Output circuit breaker  
Ammeter/selector switch  
Frequency meter  
Manual maintenance bypass switch  
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

<b>Input Voltage</b>	400/230VAC $\pm$ 25% 3 Phase 4 Wire (3P+N)
<b>Output Voltage</b>	Presetable for any voltage between 380/220V; 400/230V or 415/240V
<b>Output Voltage Accuracy</b>	$\pm$ 0.5%
<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>	<1%
<b>Independent Phase Control</b>	Maintain each phase voltage stable irrespective of load unbalance, even up to 100% load unbalance.

<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>Standard Features</b>	Input circuit breaker Over/Low voltage protection Phase failure protection Bypass control switch Voltmeter/selector switch (internal)
<b>Construction</b>	Enclosures to IP20, BS EN5490 / IEC 60529
<b>EMC Conformance</b>	BS EN50081-1;2 / IEC 61000-4-3;4
<b>CE Conformity</b>	EN55022, EN50082-2, ENV50140-1
<b>Optional Accessories</b>	Output circuit breaker Ammeter/selector switch Frequency meter Lightning arrester Manual maintenance bypass switch
Note: Optional accessories added may affect dimension, subject to confirmation.	
Note: 1) 208V 3Phase 3Wire or 4Wire options available on order 2) Special voltage configurations available on order 3) Higher KVA rating options available on order	

### Three Phase Model: SES-H-3P-S25

Model:	Rating KVA	Amps @ 380V	Amps @ 400V	Amps @ 415V	Dimensions (mm) W x H x D	Weight (Kgs)
SES 6H-3P-S25	6	9.1	8.7	8.3	300 x 550 x 590	75
SES 10H-3P-S25	10	15.2	14.4	13.9	300 x 550 x 590	77
SES 15H-3P-S25	15	22.8	21.6	20.9	300 x 550 x 590	91
SES 20H-3P-S25	20	30.4	28.9	27.8	380 x 670 x 780	130
SES 25H-3P-S25	25	38	36.1	35	380 x 670 x 780	160
SES 30H-3P-S25	30	46	43	42	380 x 670 x 780	163
SES 35H-3P-S25	35	53	51	49	490 x 800 x 990	238
SES 40H-3P-S25	40	61	58	56	490 x 800 x 990	240
SES 45H-3P-S25	45	68	65	63	490 x 800 x 990	243
SES 50H-3P-S25	50	76	72	70	490 x 800 x 990	260
SES 55H-3P-S25	55	84	79	77	490 x 800 x 990	296
SES 60H-3P-S25	60	91	87	83	500 x 900 x 1000	301
SES 75H-3P-S25	75	114	108	104	500 x 900 x 1000	335
SES 80H-3P-S25	80	122	115	111	1000 x 1300 x 580	515
SES 90H-3P-S25	90	137	130	125	1000 x 1300 x 580	520
SES 100H-3P-S25	100	152	144	139	1000 x 1300 x 580	525
SES 120H-3P-S25	120	182	173	167	1280 x 1950 x 820	752
SES 150H-3P-S25	150	228	216	209	1280 x 1950 x 820	841
SES 180H-3P-S25	180	273	260	250	1280 x 1950 x 820	985
SES 200H-3P-S25	200	304	289	278	1280 x 1950 x 820	1005
SES 250H-3P-S25	250	380	361	348	1280 x 1950 x 820	1179
SES 300H-3P-S25	300	456	433	417	1280 x 1950 x 820	1219
SES 350H-3P-S25	350	532	505	487	1280 x 1950 x 1200	1650
SES 400H-3P-S25	400	608	577	556	1280 x 1950 x 1200	1709
SES 450H-3P-S25	450	684	649	626	1280 x 1950 x 1200	1750
SES 500H-3P-S25	500	760	722	695	1280 x 1950 x 1200	1770

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