

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.



Utilizing Advanced Digital Controller

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

Input Voltage	400/230VAC ± 30% 3 Phase 4 Wire (3P+N)
Output Voltage	Presetable for any voltage between 380/220V; 400/230V or 415/240V
Output Voltage Accuracy	± 0.5%
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	<1%
Independent Phase Control	Maintain each phase voltage stable irrespective of load unbalance, even up to 100% load unbalance.

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.
Standard Features	Input circuit breaker Over/Low voltage protection Phase failure protection Bypass control switch Voltmeter/selector switch (internal)
Construction	Enclosures to IP20, BS EN5490 / IEC 60529
EMC Conformance	BS EN50081-1;2 / IEC 61000-4-3;4
CE Conformity	EN55022, EN50082-2, ENV50140-1
Optional Accessories	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-S30

Model:	Rating KVA	Amps @ 380V	Amps @ 400V	Amps @ 415V	Dimensions (mm) W x H x D	Weight (Kgs)
SES 6H-3P-S30	6	9.1	8.7	8.3	300 x 550 x 590	82
SES 10H-3P-S30	10	15.2	14.4	13.9	300 x 550 x 590	83
SES 15H-3P-S30	15	22.8	21.6	20.9	380 x 670 x 780	128
SES 20H-3P-S30	20	30.4	28.9	27.8	380 x 670 x 780	159
SES 25H-3P-S30	25	38	36.1	35	380 x 670 x 780	217
SES 30H-3P-S30	30	46	43	42	490x 800 x 990	219
SES 35H-3P-S30	35	53	51	49	490 x 800 x 990	265
SES 40H-3P-S30	40	61	58	56	490x 800 x 990	270
SES 45H-3P-S30	45	68	65	63	490 x 800 x 990	276
SES 50H-3P-S30	50	76	72	70	500 x 900 x 1000	318
SES 55H-3P-S30	55	84	79	77	500 x 900 x 1000	342
SES 60H-3P-S30	60	91	87	83	500 x 900 x 1000	345
SES 75H-3P-S30	75	114	108	104	1000 x 1300 x 580	516
SES 80H-3P-S30	80	122	115	111	1280 x 1380 x 660	725
SES 90H-3P-S30	90	137	130	125	1280 x 1380 x 660	730
SES 100H-3P-S30	100	152	144	139	1280 x 1380 x 660	740
SES 120H-3P-S30	120	182	173	167	1280 x 1950 x 820	844
SES 150H-3P-S30	150	228	216	209	1280 x 1950 x 820	978
SES 180H-3P-S30	180	273	260	250	1280 x 1950 x 820	1134
SES 200H-3P-S30	200	304	289	278	1280 x 1950 x 820	1192

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