

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 \pm 20% 3 Phase 4 Wire (3P+N)
Output Voltage	Presetable for any voltage between 380/220V; 400/230V or 415/240V
Output Voltage Accuracy	\pm 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-S20

Model:	Rating KVA	Amps @ 380V	Amps @ 400V	Amps @ 415V	Dimensions (mm) W x H x D	Weight (Kgs)
SES 6H-3P-S20	6	9.1	8.7	8.3	300 x 550 x 590	68
SES 10H-3P-S20	10	15.2	14.4	13.9	300 x 550 x 590	73
SES 15H-3P-S20	15	22.8	21.6	20.9	300 x 550 x 590	78
SES 20H-3P-S20	20	30.4	28.9	27.8	300 x 550 x 590	90
SES 25H-3P-S20	25	38	36.1	35	380 x 670 x 780	136
SES 30H-3P-S20	30	46	43	42	380 x 670 x 780	138
SES 35H-3P-S20	35	53	51	49	380 x 670 x 780	170
SES 40H-3P-S20	40	61	58	56	380 x 670 x 780	172
SES 45H-3P-S20	45	68	65	63	380 x 670 x 780	175
SES 50H-3P-S20	50	76	72	70	490 x 800 x 990	236
SES 55H-3P-S20	55	84	79	77	490 x 800 x 990	239
SES 60H-3P-S20	60	91	87	83	490 x 800 x 990	242
SES 75H-3P-S20	75	114	108	104	490 x 800 x 990	265
SES 80H-3P-S20	80	122	115	111	500 x 900 x 1000	323
SES 90H-3P-S20	90	137	130	125	500 x 900 x 1000	328
SES 100H-3P-S20	100	152	144	139	500 x 900 x 1000	333
SES 120H-3P-S20	120	182	173	167	1000 x 1300 x 580	465
SES 150H-3P-S20	150	228	216	209	1000 x 1300 x 580	565
SES 180H-3P-S20	180	273	260	250	1280 x 1950 x 820	763
SES 200H-3P-S20	200	304	289	278	1280 x 1950 x 820	821
SES 250H-3P-S20	250	380	361	348	1280 x 1950 x 820	950
SES 300H-3P-S20	300	456	433	417	1280 x 1950 x 820	1152
SES 350H-3P-S20	350	532	505	487	1280 x 1950 x 820	1190
SES 400H-3P-S20	400	608	577	556	1280 x 1950 x 820	1217
SES 450H-3P-S20	450	684	649	626	1280 x 1950 x 1200	1550
SES 500H-3P-S20	500	760	722	695	1280 x 1950 x 1200	1629
SES 600H-3P-S20	600	911	866	835	Dimensions and Weight upon request	
SES 700H-3P-S20	700	1064	1010	974		
SES 800H-3P-S20	800	1216	1155	1113		

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