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.

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 ±15%, ±20%, ±25%, ±30%, (To Specify)
- **Output Voltage Regulation**
  - Output Voltage Accuracy ± 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

www.AshleyEdison.com
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Technical Specifications

Input Voltage: 230VAC ± 25% Single Phase

Output Voltage: Presettable for any voltage between 220V; 230V or 240V.

Output Voltage Accuracy: ± 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 3 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: Voltmeter, Ammeter, Bypass switch

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

Note: Optional accessories added may affect dimension, subject to confirmation.

Single Phase Model: SES-H-S25

<table>
<thead>
<tr>
<th>Model</th>
<th>Rating KVA</th>
<th>Amps @ 220V</th>
<th>Amps @ 230V</th>
<th>Amps @ 240V</th>
<th>Dimensions (mm) W x H x D</th>
<th>Weight (Kgs)</th>
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<tbody>
<tr>
<td>SES 1H-S25</td>
<td>1</td>
<td>4.5</td>
<td>4.3</td>
<td>4.2</td>
<td>210 x 260 x 420</td>
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<td>SES 2H-S25</td>
<td>2</td>
<td>9.1</td>
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<td>SES 3H-S25</td>
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<td>12.5</td>
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<td>18.2</td>
<td>17.4</td>
<td>16.7</td>
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<td>SES 5H-S25</td>
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<td>22</td>
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<td>SES 8H-S25</td>
<td>8</td>
<td>36</td>
<td>35</td>
<td>33</td>
<td>270 x 460 x 490</td>
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<td>SES 10H-S25</td>
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<td>45</td>
<td>44</td>
<td>42</td>
<td>270 x 460 x 490</td>
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<td>SES 15H-S25</td>
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<td>68</td>
<td>65</td>
<td>63</td>
<td>400 x 590 x 500</td>
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<td>SES 20H-S25</td>
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<td>500 x 700 x 600</td>
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<td>SES 30H-S25</td>
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<td>232</td>
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<td>SES 40H-S25</td>
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<td>SES 50H-S25</td>
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<td>500 x 1170 x 600</td>
<td>314</td>
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<td>SES 60H-S25</td>
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<td>SES 75H-S25</td>
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<td>313</td>
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</table>

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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