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 commences full stabilization. Lack of this feature may cause high output voltage surge in stabiliser.

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 Feature**
  Model SES 1L ~ 8L
  Input Circuit Breaker
  Universal Socket
  Model SES 10L ~ 50L
  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
AC Automatic Voltage Stabilisers & Regulators

Technical Specifications

<table>
<thead>
<tr>
<th>Input Voltage</th>
<th>120VAC ± 15% Single Phase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output Voltage</td>
<td>Presettable for any voltage between 100V, 110V or 120V.</td>
</tr>
<tr>
<td>Output Voltage Accuracy</td>
<td>± 1%</td>
</tr>
<tr>
<td>Frequency</td>
<td>47 – 65 Hz</td>
</tr>
<tr>
<td>Response Time</td>
<td>&lt;1.5ms</td>
</tr>
<tr>
<td>Correction Time</td>
<td>A 10% supply variation will be corrected to within 2.5% in 0.6 seconds.</td>
</tr>
<tr>
<td>Efficiency</td>
<td>98%</td>
</tr>
<tr>
<td>Power Factor</td>
<td>Any lagging to 0.95 leading</td>
</tr>
<tr>
<td>Surge ratings</td>
<td>10 x max current rating for 2 seconds, 3 x max current rating for 1 minute, 2 x max current rating for 5 minutes</td>
</tr>
<tr>
<td>Surge Suppression</td>
<td>Protect loads against high-energy spikes and transient voltage.</td>
</tr>
</tbody>
</table>

Total Harmonic Distortion | Less than 1%
Soft Switch-ON | Ensure that the output voltage is at its minimum upon Switch-On before it commences 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-L-S15 (Low Voltage)

<table>
<thead>
<tr>
<th>Model</th>
<th>Rating KVA</th>
<th>Amps @ 100V</th>
<th>Amps @ 110V</th>
<th>Amps @ 120V</th>
<th>Dimensions (mm) W x H x D</th>
<th>Weight (Kgs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SES 1L-S15</td>
<td>1</td>
<td>10</td>
<td>9</td>
<td>8.3</td>
<td>210 x 260 x 420</td>
<td>22</td>
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<tr>
<td>SES 2L-S15</td>
<td>2</td>
<td>20</td>
<td>18</td>
<td>16.6</td>
<td>210 x 260 x 420</td>
<td>22.5</td>
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<tr>
<td>SES 3L-S15</td>
<td>3</td>
<td>30</td>
<td>27</td>
<td>25</td>
<td>210 x 260 x 420</td>
<td>23</td>
</tr>
<tr>
<td>SES 4L-S15</td>
<td>4</td>
<td>40</td>
<td>36</td>
<td>33</td>
<td>210 x 260 x 420</td>
<td>26.5</td>
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<tr>
<td>SES 5L-S15</td>
<td>5</td>
<td>50</td>
<td>46</td>
<td>42</td>
<td>210 x 260 x 420</td>
<td>27</td>
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<tr>
<td>SES 8L-S15</td>
<td>8</td>
<td>80</td>
<td>73</td>
<td>67</td>
<td>270 x 460 x 490</td>
<td>47</td>
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<tr>
<td>SES 10L-S15</td>
<td>10</td>
<td>100</td>
<td>91</td>
<td>83</td>
<td>400 x 580 x 500</td>
<td>55</td>
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<tr>
<td>SES 15L-S15</td>
<td>15</td>
<td>150</td>
<td>136</td>
<td>125</td>
<td>500 x 700 x 600</td>
<td>78</td>
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<tr>
<td>SES 20L-S15</td>
<td>20</td>
<td>200</td>
<td>182</td>
<td>167</td>
<td>500 x 700 x 600</td>
<td>110</td>
</tr>
<tr>
<td>SES 30L-S15</td>
<td>30</td>
<td>300</td>
<td>273</td>
<td>250</td>
<td>500 x 1170 x 600</td>
<td>220</td>
</tr>
<tr>
<td>SES 40L-S15</td>
<td>40</td>
<td>400</td>
<td>364</td>
<td>333</td>
<td>500 x 1170 x 600</td>
<td>245</td>
</tr>
</tbody>
</table>

Model SES 1L ~ 5L are supplied with Input Breaker, Input/Output Terminals and Output Universal Socket.
Model SES 8L ~ 40L are supplied with Input Breaker, Input/Output Terminals, Output Voltmeter, Ammeter, Bypass Control Switch and Castors.

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

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Note: 1) Special voltage configurations available on order
2) Higher KVA rating options available on order