ENSURING A STABLE AC MAINS VOLTAGE

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 and unplanned down-time.

Ashley-Edison AC Voltage Stabilisers offer -

- **Voltage Stability & Protection**
  Suitable for all electrical and electronic equipment. Ashley-Edison’s SES AC Voltage Stabilisers continuously monitor the incoming supply. Should the incoming voltage rise or drop, the Stabilisers will automatically control the output to ensure the voltage reaching the load equipment always remains constant at the requisite voltage. With inbuilt Transient Voltage Surge Suppression (TVSS), they also protect electrical and electronic load equipment against all to common, harmful high-energy surges, transients and voltage spikes.

- **Durability & Dependability**
  With an impressively wide range of input voltage window options and precise tight output voltage regulation, the electro-mechanical / servo electronic design based SES Voltage Stabilisers have repeatedly proven their durability and dependability in some of the world’s harshest and most demanding power environments. All SES AC Voltage Stabilisers include as standard many advanced protection and control features - such as Independent Phase Sensing, TVSS, Input Circuit Breaker, Bypass Control Switch and Soft-Switch On, which others only offer as expensive add-on options.

- **Energy Efficiency**
  Configured to optimise energy usage and deliver energy cost savings, SES Stabilisers generate no magnetic interference, are completely unaffected by power factor, or load and frequency variations and are capable of withstanding high instantaneous overloads. Their compact and quiet nature means these are suitable for indoor use and may be located near to sensitive equipment.

- **Unparalleled Protection and Value**
  When looking for affordable durable Quality voltage protection, the SES Range of AC Voltage Stabilisers from Ashley-Edison lead the market in all respects.
VOLTAGE CHOICES AVAILABLE

4 WIRE SOLUTIONS
THREE PHASE WITH NEUTRAL (+ GROUND)

H SERIES
High Voltage Models: 380/220V, 400/230V or 415/240V.
X468 Models: 440/285V, 460/285V or 480/277V

LY SERIES
Low Voltage Models: 190/110V, 200/115V, 208/120V or 220/127V.

H SERIES INPUT VOLTAGE WINDOW OPTIONS

In situations where there is a reasonably good mains supply, a Stabiliser offering an input variation swing of ±15% (S15 Models) will usually be more than acceptable, but in more remote locations, or countries where the national supply infrastructure is less developed, variations of ±20% or greater may need to be accommodated by the Stabiliser.

Please Note – These Stabilisers are not designed to support / protect voltage “back feed” applications, where energy is required to be also fed back into the utility supply.

H SERIES - SES-H-3P-S* Input Voltage Windows Options & Output Accuracy

<table>
<thead>
<tr>
<th>Nominal Three Phase Voltage</th>
<th>Input Voltage Window Options</th>
<th>±0.5%</th>
<th>±3%</th>
<th>±5%</th>
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</thead>
<tbody>
<tr>
<td>380V L-N: 220V</td>
<td></td>
<td>304 to 426V / 176 to 284V</td>
<td>304 to 456V / 176 to 284V</td>
<td>304 to 501V / 176 to 284V</td>
</tr>
<tr>
<td>400V L-N: 230V</td>
<td></td>
<td>300 to 500V / 172 to 284V</td>
<td>300 to 500V / 172 to 284V</td>
<td>300 to 500V / 172 to 284V</td>
</tr>
<tr>
<td>415V L-N: 240V</td>
<td></td>
<td>315 to 523V / 182 to 282V</td>
<td>315 to 523V / 182 to 282V</td>
<td>315 to 523V / 182 to 282V</td>
</tr>
</tbody>
</table>

TYPICAL APPLICATIONS

- Computers & Network Systems
- Medical Equipment
- Electronics Equipment
- Testing Equipment
- Laboratory Equipment
- POS Terminals
- Process Control Systems
- TV/Radio Broadcasting Stations
- Audio/Video Systems
- Security Systems
- Elevators / Lifts
- CNC & SMT Equipment

Also available as 3 Wire Solutions (No Neutral) - SES-HD & LD SERIES

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S35 PRODUCT SELECTION TABLE

<table>
<thead>
<tr>
<th>MODEL</th>
<th>kVA</th>
<th>Max Rating @ (Amps per Phase)</th>
<th>Dimensions &amp; Weight</th>
<th>Enclosure Type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>380V</td>
<td>400V</td>
<td>415V</td>
<td>W x H x D (mm)</td>
</tr>
<tr>
<td>SES-4H-3P-S35</td>
<td>6</td>
<td>9.1</td>
<td>8.7</td>
<td>8.3</td>
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<tr>
<td>SES-4H-3P-S35</td>
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<td>15.2</td>
<td>14.4</td>
<td>13.9</td>
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<td>22.8</td>
<td>21.6</td>
<td>20.9</td>
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<td>27.8</td>
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<td>38</td>
<td>36.1</td>
<td>35</td>
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<td>42</td>
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<td>53</td>
<td>51</td>
<td>49</td>
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<td>58</td>
<td>56</td>
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<td>79</td>
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<table>
<thead>
<tr>
<th>MODEL</th>
<th>kVA</th>
<th>Max Rating @ (Amps per Phase)</th>
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<th>Enclosure Type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>380V</td>
<td>400V</td>
<td>415V</td>
<td>W x H x D (mm)</td>
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<tr>
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<td>114</td>
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<td>137</td>
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<td>125</td>
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<td>152</td>
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<td>173</td>
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<td>228</td>
<td>216</td>
<td>209</td>
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<td>273</td>
<td>260</td>
<td>250</td>
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<tr>
<td>SES-200H-3P-S35</td>
<td>200</td>
<td>304</td>
<td>289</td>
<td>278</td>
</tr>
<tr>
<td>SES-250H-3P-S35</td>
<td>250</td>
<td>380</td>
<td>361</td>
<td>348</td>
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<tr>
<td>SES-300H-3P-S35</td>
<td>300</td>
<td>456</td>
<td>433</td>
<td>417</td>
</tr>
</tbody>
</table>

Note: Optional Accessories added may affect dimensions - subject to confirmation.

Also available in Outdoor IPS4 / NEMA 3 Style Enclosures - OSES SERIES

Environmental Conditions:
- 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 (NEMA 1 Style) - BS EN 60529.

Paint Colour:
- RAL 7032 (Pebble Grey - Epoxy Powder Coating)

EMC Conformance:

Standard Warranty:
- Three Years / 36 Months from date of supply

Standard Features:
- Input Circuit Breaker
- Over/Low Voltage Protection
- Phase Failure Protection
- Bypass Control Switch
- Voltmeter / Phase Selector Switch (internal)

Optional Accessories:
- Output Circuit Breaker
- Manual Maintenance Bypass Switch
- Ammeter (with Phase Selector Switch)
- Lightning Surge Arrestors
- No Volt Remote Monitoring Contacts
- Drip Proof Cow (with RS-485 interface)
- - showing V, A, W, VA, AER, PF & kWH
- AquaStop Protective Coating
- - protection against damp and moisture ingress

Optional Step Down Voltage Feature:
- Ideal for applications where the utility supply voltage is different from the load equipment’s requirement - see SES-HL SERIES Step Down AC Voltage Stabilisers.

Optional Isolation Transformer:
- Shielded isolation transformer providing extra protection between the utility and the load. Protects against common and transverse mode electrical noise - see PCS-M SERIES AC Power Conditioners.

Note: Higher kVA and alternative voltage options available to order / individual request.

www.AshleyEdison.com
## STANDARD ENCLOSURE TYPES

### 331 & 332 Enclosures
- **Bottom Cable Entry**
- **On Casters**

<table>
<thead>
<tr>
<th>Front</th>
<th>Rear</th>
<th>Right Side</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="331_frontright.png" alt="Image" /></td>
<td><img src="331_rearleft.png" alt="Image" /></td>
<td><img src="331_righttop.png" alt="Image" /></td>
</tr>
</tbody>
</table>

**Physical Size:**
- 331: 300(W) x 550(H) x 590(D) mm (11.9"(W) x 21.7"(H) x 23.3"(D) inches)
- 332: 380(W) x 670(H) x 780(D) mm (15.0"(W) x 26.4"(H) x 30.8"(D) inches)

### 333 Enclosure
- **Bottom Cable Entry**

<table>
<thead>
<tr>
<th>Front</th>
<th>Rear</th>
<th>Left Side</th>
<th>Right Side</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="333_frontright.png" alt="Image" /></td>
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<td><img src="333_leftbottom.png" alt="Image" /></td>
<td><img src="333_righttop.png" alt="Image" /></td>
</tr>
</tbody>
</table>

**Physical Size:**
- 333: 1000(W) x 1300(H) x 580(D) mm (39.4"(W) x 51.2"(H) x 22.9"(D) inches)

### 336, 337 & 339 Enclosures
- **336 - Bottom Cable Entry**
- **337 & 339 - Top Cable Entry (Bottom to Special Order)**

<table>
<thead>
<tr>
<th>Front</th>
<th>Rear</th>
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<th>Right Side</th>
</tr>
</thead>
<tbody>
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<td><img src="336_frontright.png" alt="Image" /></td>
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<td><img src="337_leftbottom.png" alt="Image" /></td>
<td><img src="337_righttop.png" alt="Image" /></td>
</tr>
</tbody>
</table>

**Physical Size:**
- 336: 1280(W) x 1480(H) x 660(D) mm (50.4"(W) x 58.3"(H) x 26.0"(D) inches)
- 337: 1280(W) x 1950(H) x 850(D) mm (50.4"(W) x 76.8"(H) x 34.7"(D) inches)
- 339: 1470(W) x 1950(H) x 1340(D) mm (57.9"(W) x 76.8"(H) x 52.8"(D) inches)

## AVAILABILITY

We offer probably the best availability on AC Voltage Stabiliser & Power Conditioning solutions.

Many of our most popular ratings are readily available from stock at the factory or from one of our strategically located Service and Distribution Hubs. Where a solution is not readily available, due to our considerable investment in component inventory and fine-tuned accredited build processes, we are able to ensure very short lead times on deliveries – even for the largest of models!

## CUSTOM BUILT SOLUTIONS

Ashley-Edison, with a strong and wide manufacturing base, is able to meet the requirements of customers from our own in-house professional resources.

Where bespoke / custom built solutions are required we are able to call upon our extensive portfolio of proven standard designs and tailor offerings to accommodate, without breaking the bank, most individual specific requirements.

**WANT TO KNOW MORE . . . . .**

Want to learn more about our Servo Electronic AC Voltage Regulators / Stabilisers and Power Conditioners?

Please ask for a copy of our . . .

Servo Electronic Overview Brochure

**NEED HELP SELECTING THE RIGHT MODEL FOR YOUR NEEDS?**

Check out our Online Selection Tool at https://www.AshleyEdisonUK.com/product-selector-872/