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 they 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.

- **Independent Phase Balancing & Control**  
  Independent phase voltage sensing and control to ensure the individual phase voltages remain stable - regardless of load unbalance.

- **Inbuilt High Overload Capability**  
  Ideal for loads with an inherent initial high current draw on start up.

- **Soft-Switch On / Start Up Load Protection**  
  Protection of the load from momentary over voltage situations on start up.

- **Over / Low Voltage Protection**  
  Ability to automatically shutdown the Voltage Stabiliser in the event of the input supply voltage going outside the input voltage window.

- **Bypass Control Switch**  
  Manual Electronic Controls Bypass Facility

- **Phase Failure Protection**  
  Protection of the load in the event of phase failure.

- **Front Panel Status Monitoring & Metering**  
  Front Panel display showing system status with internal output Voltmeter with phase selector switch.

- **Input Circuit Breaker**  
  Input over current protection fitted as standard.

- **Optional Accessories**  

- **Compliance with International Standards**  
  Designed, manufactured and supplied to comply with leading international standards.

- **CE Conformity**  
  Fully compliant and labelled.
VOLTAGE CHOICES AVAILABLE

4 WIRE SOLUTIONS
THREE PHASE WITH NEUTRAL (+ GROUND)

H SERIES
6 to 600 kVA
High Voltage Models:
380/220V, 400/230V or 415/240V.
X468 Models: 440/285V, 460/285V or 480/277V

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

H SERIES - THREE PHASE - 6 to 600 kVA

VOLTAGE STABILISER

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 be needed 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

INPUT VOLTAGE SWINGS / SWING MODEL NO S* VARIANTS

Nominal Three Phase Voltage Output Voltage Accuracy of Nominal

<table>
<thead>
<tr>
<th>Nominal</th>
<th>6 to 600 kVA</th>
<th>6 to 600 kVA</th>
<th>6 to 500 kVA</th>
<th>6 to 500 kVA</th>
<th>6 to 300 kVA</th>
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<tr>
<td></td>
<td>L-L</td>
<td>L-N</td>
<td>L-L</td>
<td>L-N</td>
<td>L-L</td>
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<tr>
<td>±0.5%</td>
<td>323 to 437V</td>
<td>187 to 235V</td>
<td>304 to 456V</td>
<td>178 to 264V</td>
<td>285 to 475V</td>
<td>165 to 275V</td>
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<tr>
<td></td>
<td>(± 15%)</td>
<td>(± 25%)</td>
<td>(± 25%)</td>
<td>(± 25%)</td>
<td>(± 25%)</td>
<td>(± 25%)</td>
</tr>
<tr>
<td>±3%</td>
<td>315 to 448V</td>
<td>183 to 260V</td>
<td>296 to 467V</td>
<td>172 to 271V</td>
<td>277 to 489V</td>
<td>161 to 282V</td>
</tr>
<tr>
<td></td>
<td>(± 17% / +18%)</td>
<td>(± 22% / +23%)</td>
<td>(± 27% / +28%)</td>
<td>(± 27% / +28%)</td>
<td>(± 33% / +36%)</td>
<td>(± 33% / +36%)</td>
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<tr>
<td>±5%</td>
<td>308 to 460V</td>
<td>178 to 266V</td>
<td>289 to 479V</td>
<td>167 to 277V</td>
<td>270 to 495V</td>
<td>156 to 288V</td>
</tr>
<tr>
<td></td>
<td>(± 19% / +21%)</td>
<td>(± 24% / +26%)</td>
<td>(± 29% / +31%)</td>
<td>(± 29% / +31%)</td>
<td>(± 34% / +36%)</td>
<td>(± 34% / +36%)</td>
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<tr>
<td>±0.5%</td>
<td>340 to 460V</td>
<td>196 to 266V</td>
<td>320 to 449V</td>
<td>184 to 276V</td>
<td>300 to 500V</td>
<td>173 to 282V</td>
</tr>
<tr>
<td></td>
<td>(± 15%)</td>
<td>(± 25%)</td>
<td>(± 25%)</td>
<td>(± 25%)</td>
<td>(± 25%)</td>
<td>(± 25%)</td>
</tr>
<tr>
<td>±3%</td>
<td>332 to 472V</td>
<td>191 to 271V</td>
<td>312 to 492V</td>
<td>179 to 283V</td>
<td>292 to 512V</td>
<td>168 to 294V</td>
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<tr>
<td></td>
<td>(± 17% / +18%)</td>
<td>(± 22% / +23%)</td>
<td>(± 27% / +28%)</td>
<td>(± 27% / +28%)</td>
<td>(± 33% / +36%)</td>
<td>(± 33% / +36%)</td>
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<tr>
<td>±5%</td>
<td>324 to 489V</td>
<td>186 to 285V</td>
<td>304 to 504V</td>
<td>175 to 290V</td>
<td>284 to 524V</td>
<td>163 to 311V</td>
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<tr>
<td></td>
<td>(± 19% / +21%)</td>
<td>(± 24% / +26%)</td>
<td>(± 29% / +31%)</td>
<td>(± 29% / +31%)</td>
<td>(± 34% / +36%)</td>
<td>(± 34% / +36%)</td>
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<tr>
<td>±0.5%</td>
<td>353 to 477V</td>
<td>204 to 276V</td>
<td>332 to 498V</td>
<td>192 to 288V</td>
<td>315 to 519V</td>
<td>180 to 309V</td>
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<tr>
<td></td>
<td>(± 15%)</td>
<td>(± 25%)</td>
<td>(± 25%)</td>
<td>(± 25%)</td>
<td>(± 25%)</td>
<td>(± 25%)</td>
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<tr>
<td>±3%</td>
<td>344 to 499V</td>
<td>199 to 283V</td>
<td>324 to 510V</td>
<td>187 to 295V</td>
<td>303 to 531V</td>
<td>175 to 307V</td>
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<tr>
<td></td>
<td>(± 17% / +18%)</td>
<td>(± 22% / +23%)</td>
<td>(± 27% / +28%)</td>
<td>(± 27% / +28%)</td>
<td>(± 33% / +36%)</td>
<td>(± 33% / +36%)</td>
</tr>
<tr>
<td>±5%</td>
<td>336 to 502V</td>
<td>194 to 299V</td>
<td>315 to 523V</td>
<td>182 to 302V</td>
<td>295 to 543V</td>
<td>170 to 314V</td>
</tr>
<tr>
<td></td>
<td>(± 19% / +21%)</td>
<td>(± 24% / +26%)</td>
<td>(± 29% / +31%)</td>
<td>(± 29% / +31%)</td>
<td>(± 34% / +36%)</td>
<td>(± 34% / +36%)</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

www.AshleyEdisonUK.com
GENERAL COMMERCIAL & INDUSTRIAL PRODUCTS

SES H-3P-S15 SERIES - THREE PHASE - 6 to 600 kVA

TECHNICAL SPECIFICATION

Technology: Servo Electronic - Variable Transformer controlled, series regulation transformer (buck-boost transformer with secondary wired in series with the load).

Input Voltage Swing: ±15% (+17% or -19% or +19% +21%) Three Phase, 4 Wire (with Neutral = Ground / Earth).

Output Voltage: Presettable for any voltage between 380/220V, 400/230V & 415/240V (Customer to specify), Three Phase, 4 Wire. 440/254V, 460/265V & 480/277V models available on request. The permissible input voltage swing is relative to the preset output voltage.

Output Voltage Accuracy: ± 0.5%, ± 3% or ± 5% - auto selection based on input voltage swing.

Frequency: 47 - 65Hz

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: The Power Factor has no effect on performance providing the stabiliser is being used within its rated capacity.

Surge Ratings: 10 x max. current rating for 2 seconds
3 x max. current rating for 1 minute
2 x max. current rating for 2 minutes

Surge Suppression: TVSS - Protects loads against high-energy Spikes and Transient Voltages.

Total Harmonic Distortion: Less than 1%

Independent Phase Control: Maintains each phase voltage stable irrespective of load unbalance, even up to 100% load unbalance.

Soft-Switch On: Ensures the output voltage is set at minimum upon Switch-On before commencing stabilization - protects load equipment from damaging start up voltage surges.

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 (NEMA 1 Style) - BS EN 60529.

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

EMC Conformance: Complies with BS EN 55022 and the relevant parts of the BS EN 61000 series of standards.


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 Cowl for IP21 Ingress Protection
- Digital Power Metering (with RS-485 interface) - showing V, A, W, VA, AER, PF & kWH

Optional Step Down Voltage Feature: Ideal for applications where the utility supply voltage is different from the load equipment’s requirement - see SES-9 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: Optional Accessories added may affect dimensions - subject to confirmation.

S15 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>
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<tr>
<td>SES-4H-3P-S15</td>
<td>6</td>
<td>9.1</td>
<td>8.7</td>
<td>8.3</td>
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<tr>
<td>SES-10H-3P-S15</td>
<td>10</td>
<td>15.2</td>
<td>14.4</td>
<td>13.9</td>
</tr>
<tr>
<td>SES-15H-3P-S15</td>
<td>15</td>
<td>22.8</td>
<td>21.6</td>
<td>20.9</td>
</tr>
<tr>
<td>SES-20H-3P-S15</td>
<td>20</td>
<td>30.4</td>
<td>28.9</td>
<td>27.8</td>
</tr>
<tr>
<td>SES-25H-3P-S15</td>
<td>25</td>
<td>38</td>
<td>36.1</td>
<td>35</td>
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<tr>
<td>SES-30H-3P-S15</td>
<td>30</td>
<td>46</td>
<td>43</td>
<td>42</td>
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<tr>
<td>SES-35H-3P-S15</td>
<td>35</td>
<td>53</td>
<td>51</td>
<td>49</td>
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<tr>
<td>SES-40H-3P-S15</td>
<td>40</td>
<td>61</td>
<td>58</td>
<td>56</td>
</tr>
<tr>
<td>SES-45H-3P-S15</td>
<td>45</td>
<td>68</td>
<td>65</td>
<td>63</td>
</tr>
<tr>
<td>SES-50H-3P-S15</td>
<td>50</td>
<td>76</td>
<td>72</td>
<td>70</td>
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<tr>
<td>SES-55H-3P-S15</td>
<td>55</td>
<td>84</td>
<td>79</td>
<td>77</td>
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<tr>
<td>SES-60H-3P-S15</td>
<td>60</td>
<td>91</td>
<td>87</td>
<td>83</td>
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<td>SES-75H-3P-S15</td>
<td>75</td>
<td>114</td>
<td>108</td>
<td>104</td>
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<tr>
<td>SES-80H-3P-S15</td>
<td>80</td>
<td>122</td>
<td>115</td>
<td>111</td>
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</table>

S15 PRODUCT SELECTION TABLE - continued

<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-90H-3P-S15</td>
<td>90</td>
<td>137</td>
<td>130</td>
<td>125</td>
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<tr>
<td>SES-100H-3P-S15</td>
<td>100</td>
<td>152</td>
<td>144</td>
<td>139</td>
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<tr>
<td>SES-120H-3P-S15</td>
<td>120</td>
<td>182</td>
<td>173</td>
<td>167</td>
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<td>SES-150H-3P-S15</td>
<td>150</td>
<td>228</td>
<td>216</td>
<td>209</td>
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<tr>
<td>SES-180H-3P-S15</td>
<td>180</td>
<td>273</td>
<td>260</td>
<td>250</td>
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<tr>
<td>SES-200H-3P-S15</td>
<td>200</td>
<td>304</td>
<td>289</td>
<td>278</td>
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<tr>
<td>SES-250H-3P-S15</td>
<td>250</td>
<td>380</td>
<td>361</td>
<td>348</td>
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<tr>
<td>SES-300H-3P-S15</td>
<td>300</td>
<td>456</td>
<td>433</td>
<td>417</td>
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<tr>
<td>SES-350H-3P-S15</td>
<td>350</td>
<td>532</td>
<td>505</td>
<td>487</td>
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<td>SES-400H-3P-S15</td>
<td>400</td>
<td>608</td>
<td>577</td>
<td>556</td>
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<td>684</td>
<td>649</td>
<td>626</td>
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<tr>
<td>SES-500H-3P-S15</td>
<td>500</td>
<td>760</td>
<td>722</td>
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<tr>
<td>SES-600H-3P-S15</td>
<td>600</td>
<td>911</td>
<td>866</td>
<td>835</td>
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</tbody>
</table>

Note: Higher kVA and alternative voltage options available to order / individual request.
### S20 TECHNICAL SPECIFICATION

**Technology:** Servo Electronic - Variable Transformer controlled, series regulation transformer (buck-boost transformer with secondary wired in series with the load).

**Input Voltage Swing:** ±20% (or −22% +23% or −24% +26%) Three Phase, 4 Wire (with Neutral = Ground / Earth).

**Output Voltage:** Presettable for any voltage between 380/220V, 400/230V & 415/240V (Customer to specify), Three Phase, 4 Wire, 440/254V, 460/265V & 480/277V models available on request. The permissible input voltage swing is relative to the preset output voltage.

**Output Voltage Accuracy:** ± 0.5%, ± 3% or ± 5% - auto selection based on input voltage swing.

**Frequency:** 47 - 65Hz

**Response Time:** <1.5ms

**Correction Time:** A 10% supply variation will be corrected to within 2.5% in 0.2 seconds.

**Efficiency:** 98%

**Power Factor:** The Power Factor has no effect on performance providing the stabiliser is being used within its rated capacity.

**Surge Ratings:**
- 10 x max. current rating for 2 seconds
- 3 x max. current rating for 1 minute
- 2 x max. current rating for 2 minutes

**Surge Suppression:** TVSS - Protects loads against high-energy Spikes and Transient Voltages.

**Total Harmonic Distortion:** Less than 1%

**Independent Phase Control:** Maintains each phase voltage stable irrespective of load unbalance, even up to 100% load unbalance.

**Soft-Switch On:** Ensures the output voltage is set at minimum upon Switch-On before commencing stabilization - protects load equipment from damaging start up voltage surges.

**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 (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 Cowf for IP21 Ingress Protection
- Digital Power Metering (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-H SERIES AC Power Conditioners.

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

### S20 PRODUCT SELECTION TABLE

<table>
<thead>
<tr>
<th>MODEL</th>
<th>kVA</th>
<th>Max Rating @ 380V (Amps per Phase)</th>
<th>Dimensions &amp; Weight</th>
<th>Encl—sure Type</th>
<th>Max Rating @ 400V (Amps per Phase)</th>
<th>Dimensions &amp; Weight</th>
<th>Encl—sure Type</th>
<th>Max Rating @ 415V (Amps per Phase)</th>
<th>Dimensions &amp; Weight</th>
<th>Encl—sure Type</th>
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</thead>
<tbody>
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<td>SES-6H-3P-S20</td>
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<td>9.1</td>
<td>380 x 550 x 590</td>
<td>71</td>
<td>331</td>
<td>400 x 550 x 590</td>
<td>73</td>
<td>331</td>
<td>415 x 550 x 590</td>
<td>75</td>
</tr>
<tr>
<td>SES-10H-3P-S20</td>
<td>10</td>
<td>15.2</td>
<td>380 x 550 x 590</td>
<td>72</td>
<td>331</td>
<td>400 x 550 x 590</td>
<td>73</td>
<td>331</td>
<td>415 x 550 x 590</td>
<td>75</td>
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<td>SES-15H-3P-S20</td>
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<td>22.8</td>
<td>380 x 550 x 590</td>
<td>78</td>
<td>331</td>
<td>400 x 550 x 590</td>
<td>78</td>
<td>331</td>
<td>415 x 550 x 590</td>
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<td>SES-20H-3P-S20</td>
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<td>30.4</td>
<td>380 x 550 x 590</td>
<td>89</td>
<td>331</td>
<td>400 x 550 x 590</td>
<td>89</td>
<td>331</td>
<td>415 x 550 x 590</td>
<td>90</td>
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<td>123</td>
<td>332</td>
<td>400 x 670 x 790</td>
<td>125</td>
<td>332</td>
<td>415 x 670 x 790</td>
<td>127</td>
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<td>380 x 670 x 790</td>
<td>141</td>
<td>332</td>
<td>400 x 670 x 790</td>
<td>143</td>
<td>332</td>
<td>415 x 670 x 790</td>
<td>144</td>
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<td>SES-35H-3P-S20</td>
<td>35</td>
<td>53.1</td>
<td>380 x 670 x 790</td>
<td>143</td>
<td>332</td>
<td>400 x 670 x 790</td>
<td>143</td>
<td>332</td>
<td>415 x 670 x 790</td>
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<tr>
<td>SES-40H-3P-S20</td>
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<td>334</td>
<td>415 x 690 x 790</td>
<td>268</td>
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</tbody>
</table>

**S20 PRODUCT SELECTION TABLE**

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

**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 (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 Cowf for IP21 Ingress Protection
- Digital Power Metering (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-H SERIES AC Power Conditioners.

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

**Technology:** Servo Electronic - Variable Transformer controlled, series regulation transformer (backBoost transformer with secondary wired in series with the load).

**Input Voltage Swing:** ±25% (or –27% +28% or –29% +31%) Three Phase, 4 Wire (with Neutral = Ground / Earth).

**Output Voltage:** Presettable for any voltage between 380/220V, 400/250V & 415/240V (Customer to specify), Three Phase, 4 Wire. 440/254V, 460/265V & 480/277V models available on request. The permissible input voltage swing is relative to the preset output voltage.

**Output Voltage Accuracy:** ± 0.5%, ± 3% or ± 5 % - auto selection based on input voltage swing.

**Frequency:** 47 - 65Hz

**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:** The Power Factor has no effect on performance providing the stabiliser is being used within its rated capacity.

**Surge Ratings:** 10 x max. current rating for 2 seconds
3 x max. current rating for 1 minute
2 x max. current rating for 2 minutes

**Surge Suppression:** TVSS - Protects loads against high-energy Spikes and Transient Voltages.

**Total Harmonic Distortion:** Less than 1%

**Independent Phase Control:** Maintains each phase voltage stable irrespective of load unbalance, even up to 100% load unbalance.

**Soft-Switch On:** Ensures the output voltage is set at minimum upon Switch-On before commencing stabilisation - protects load equipment from damaging start up voltage surges.

**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 (NEMA 1 Style) - BS EN 60529.

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

**EMC Conformance:** Complies with BS EN 55022 and the relevant parts of the BS EN 61000 series of standards.

**CE Conformity:** CE Marked - being fully compliant with European Union Directives 2014/30/EU (The EMC Directive) and 2014/35/EU (The Low Voltage Directive).

**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
Drop Proof Cowf for IP21 Ingress Protection
Digital Power Metering (with RS-485 interface) - showing V, A, W, VA, AER, PF & kWH

**Environment Protection:**
- AquaStop Protective Coating
- No Volt Remote Monitoring Contacts
- Lightning Surge Arrestors
- Ammeter (with Phase Selector Switch)
- Drop Proof Cowf for IP21 Ingress Protection
- Digital Power Metering (with RS-485 interface) - showing V, A, W, VA, AER, PF & kWH

**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: Optional Accessories added may affect dimensions – subject to confirmation.

---

**S25 PRODUCT SELECTION TABLE**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>kVA</th>
<th>Max Rating @ (Amps per Phase)</th>
<th>Dimensions &amp; Weight W x H x D (mm)</th>
<th>Enclosure Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>SES-4H-3P-S25</td>
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<td>9.1</td>
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<td>SES-10H-3P-S25</td>
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<tr>
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<td>20.9</td>
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<tr>
<td>SES-60H-3P-S25</td>
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<td>91</td>
<td>87</td>
<td>83</td>
</tr>
<tr>
<td>SES-75H-3P-S25</td>
<td>75</td>
<td>114</td>
<td>108</td>
<td>104</td>
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</tbody>
</table>

**Note:** Higher kVA and alternative voltage options available to order / individual request.
**GENERAL COMMERCIAL & INDUSTRIAL PRODUCTS**

**SES H-3P-S30 SERIES** - THREE PHASE - 6 to 500 kVA

### TECHNICAL SPECIFICATION

**Technology:** Servo Electronic - Variable Transformer controlled, series regulation transformer (buck -boost transformer with secondary wired in series with the load).

**Input Voltage Swing:** ±30% (or ~32% +33% or ~34% +36%) Three Phase, 4 Wire (with Neutral + Ground / Earth).

**Output Voltage:** Presettable for any voltage between 380/220V, 400/230V & 415/240V (Customer to specify), Three Phase, 4 Wire. 440/254V, 480/285V & 480/277V models available on request. The permissible input voltage swing is relative to the preset output voltage.

**Output Voltage Accuracy:** ± 0.5%, ± 3% or ± 5% - auto selection based on input voltage swing.

**Frequency:** 47 - 65Hz

**Response Time:** <1.5ms

**Correction Time:** A 10% supply variation will be corrected to within 2.5% in 0.2 seconds.

**Efficiency:** 98%

**Power Factor:** The Power Factor has no effect on performance providing the stabiliser is being used within its rated capacity.

**Surge Ratings:** 10 x max. current rating for 2 seconds
3 x max. current rating for 1 minute
2 x max. current rating for 2 minutes

**Surge Suppression:** TVSS - Protects loads against high-energy Spikes and Transient Voltages.

**Total Harmonic Distortion:** Less than 1%

**Independent Phase Control:** Maintains each phase voltage stable irrespective of load unbalance, even up to 100% load unbalance.

**Soft-Switch On:** Ensures the output voltage is set at minimum upon Switch-On before commencing stabilization - protects load equipment from damaging start up voltage surges.

**Environment:** Temperature range –15 to 45 °C. Derate by 2% for each additional 1°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:** Complies with BS EN 55022 and the relevant parts of the BS EN 61000 series of standards.

**CE Conformity:** CE Marked - being fully compliant with European Union Directives 2014/30/EU (The EMC Directive) and 2014/35/EU (The Low Voltage Directive).

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

**Standard Features:**
- Input Circuit Breaker
- Over/Low Voltage Protection
- Phase Failure Protection
- Over/Under Frequency Protection
- Over/Under Voltage Protection
- Three Years / 36 Months from date of supply

**Optional Accessories:**
- Output Circuit Breaker
- Manual Maintenance Bypass Switch
- Ammeter (with Phase Selector Switch)
- Lightning Surge Arrestors
- No Volt Remote Monitoring Contacts
- Drip Proof Cowl for IP21 Ingress Protection
- CVR (Pack of 4)
- DC Power supplies
- LED Lighting
- CPU / Processor
- Temperate Range
- Surge Suppression
- Transformer
- Voltage / Current Meters
- Contactors
- Manual Maintenance Bypass Switch
- Over/Under Frequency Protection
- Over/Under Voltage Protection
- Three Years / 36 Months from date of supply

**Optional Step Down Voltage Feature:** Ideal for applications where the utility supply voltage is different from the load equipment's requirement - see SES-9L SERIES Step Down AC Voltage Stabilizers.

**Optional Isolation Transformer:** Shielded isolation transformer providing extra protection between the utility and the load. Protects against against damp and moisture ingress - see PCS-9 SERIES AC Power Conditioners.

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

---

### S30 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>
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<tbody>
<tr>
<td>SES-6H-3P-S30</td>
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<td>9.1 8.7 8.3</td>
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<td>15.2 14.4 13.9</td>
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<tr>
<td>SES-15H-3P-S30</td>
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<td>380 x 670 x 780</td>
<td>123 332</td>
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**Dimensions & Weight (W x H x D (mm))**

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<td>SES-15H-3P-S30</td>
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<td>SES-20H-3P-S30</td>
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</table>

**Note:** Higher kVA and alternative voltage options available to order / individual request.
**SES H-3P-S35 SERIES - THREE PHASE - 6 to 300 kVA**

## TECHNICAL SPECIFICATION

**Technology:** Servo Electronic - Variable Transformer controlled, series regulation transformer (buck -boost transformer with secondary wired in series with the load).

**Input Voltage Swing:** ±35% (or ~37% +38% or ~39% +41%) Three Phase, 4 Wire (with Neutral + Ground / Earth).

**Output Voltage:** Presettable for any voltage between 380/220V, 400/230V & 415/240V (Customer to specify), Three Phase, 4 Wire. 440/254V, 460/265V & 480/277V models available on request. The permissible input voltage swing is relative to the preset output voltage.

**Output Voltage Accuracy:** ± 0.5%, ± 3% or ± 5% - auto selection based on input voltage swing.

**Frequency:** 47 - 65Hz

**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:** The Power Factor has no effect on performance providing the stabiliser is being used within its rated capacity.

**Surge Ratings:** 10 x max. current rating for 2 seconds 3 x max. current rating for 1 minute 2 x max. current rating for 2 minutes

**Surge Suppression:** TVSS - Protects loads against high-energy Spikes and Transient Voltages.

**Total Harmonic Distortion:** Less than 1%

**Independent Phase Control:** Maintains each phase voltage stable irrespective of load unbalance, even up to 100% load unbalance.

**Soft-Switch On:** Ensures the output voltage is set at minimum upon Switch-On before commencing stabilization - protects load equipment from damaging start up voltage surges.

**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 (NEMA 1 Style) - BS EN 60529.

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

**EMC Conformance:** Complies with BS EN 55022 and the relevant parts of the BS EN 61000 series of standards.

**CE Conformity:** CE Marked - being fully compliant with European Union Directives 2014/30/EU (The EMC Directive) and 2014/35/EU (The Low Voltage Directive).

**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 Cowf for IP21 Ingress Protection
- Digital Power Metering (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.

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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>
<th>Density (Kg/m³)</th>
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<tr>
<td>SES-4H3P-S35</td>
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<td>S35</td>
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<td>490 x 800 x 990</td>
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<td>S35</td>
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</tbody>
</table>

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

---

**PARTICULARS SHEET**

**MODEL**

<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>
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<tbody>
<tr>
<td>SES-75H3P-S35</td>
<td>75</td>
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<td>1000 x 1300 x 580</td>
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<tr>
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<td>90</td>
<td>137</td>
<td>1280 x 1950 x 880</td>
<td>910</td>
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<td>SES-100H3P-S35</td>
<td>100</td>
<td>152</td>
<td>1280 x 1950 x 880</td>
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<td>1280 x 1950 x 880</td>
<td>950</td>
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<tr>
<td>SES-150H3P-S35</td>
<td>150</td>
<td>228</td>
<td>1280 x 1950 x 880</td>
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<td>SES-180H3P-S35</td>
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<td>1470 x 1950 x 1340</td>
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<td>SES-200H3P-S35</td>
<td>200</td>
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<td>1470 x 1950 x 1340</td>
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<td>300</td>
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<td>1470 x 1950 x 1340</td>
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</tr>
</tbody>
</table>

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

---

**ALSO available in Outdoor IPS4 / NEMA 3 Style Enclosures - OSES SERIES**
**SES H-3P-S40 SERIES - THREE PHASE - 6 to 300 kVA**

### TECHNICAL SPECIFICATION

**Technology:** Servo Electronic - Variable Transformer controlled, series regulation transformer (buck-boost transformer with secondary wired in series with the load).

**Input Voltage Swing:** ±0% (or -42% +43% or -44% +46%) Three Phase, 4 Wire (with Neutral + Ground / Earth).

**Output Voltage:** Presettable for any voltage between 380/220V, 400/230V & 415/240V (Customer to specify), Three Phase, 4 Wire, 440/254V, 460/265V & 480/277V models available on request. The permissible input voltage swing is relative to the preset output voltage.

**Output Voltage Accuracy:** ± 0.5%, ± 3% or ± 5 % - auto selection based on input voltage swing.

**Frequency:** 47 - 65Hz

**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:** The Power Factor has no effect on performance providing the stabiliser is being used within its rated capacity.

**Surge Ratings:** 10 x max. current rating for 2 seconds 3 x max. current rating for 1 minute 2 x max. current rating for 2 minutes

**Surge Suppression:** TVSS - Protects loads against high-energy Spikes and Transient Voltages.

**Total Harmonic Distortion:** Less than 1%

**Independent Phase Control:** Maintains each phase voltage stable irrespective of load unbalance, even up to 100% load unbalance.

**Soft-Switch On:** Ensures the output voltage is set at minimum upon Switch-On before commencing stabilisation - protects load equipment from damaging start up voltage surges.

**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 (NEMA 1 Style) - BS EN 60529.

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

**EMC Conformance:** CE Marked - being fully compliant with European Union Directives 2014/30/EU (The EMC Directive) and 2014/35/EU (The Low Voltage Directive).

**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)
- Lighting Surge Arrestors
- No Volt Remote Monitoring Contacts
- Drip Proof Cowf for IP21 Ingress Protection
- Digital Power Metering (with RS-485 interface) - showing V, A, W, VA, AER, PF & kWH
- AquaStop Protective Coating
- Epoxy Powder Coating

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

### S40 PRODUCT SELECTION TABLE

<table>
<thead>
<tr>
<th>MODEL</th>
<th>kVA</th>
<th>Max Rating @ (Amps per Phase)</th>
<th>Dimensions &amp; Weight</th>
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<td>380V</td>
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</table>

Also available in Outdoor IP54 / NEMA 3 Style Enclosures - OSES SERIES

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

www.AshleyEdisonUK.com
STANDARD ENCLOSURE TYPES

331 & 332 Enclosures
Bottom Cable Entry

| Physical Size: | 331 300(W) x 550(H) x 590(D) mm | 11.9"(W) x 21.7"(H) x 23.6"(D) inches |
| | 332 380(W) x 670(H) x 780(D) mm | 15.0"(W) x 26.4"(H) x 30.8"(D) inches |

On Casters

333 & 334 Enclosures
Bottom Cable Entry

| Physical Size: | 333 490(W) x 800(H) x 990(D) mm | 19.3"(W) x 31.5"(H) x 39.4"(D) inches |
| | 334 540(W) x 900(H) x 1000(D) mm | 21.3"(W) x 35.5"(H) x 39.4"(D) inches |

On Casters

335 Enclosure
Bottom Cable Entry

| Physical Size: | 335 1000(W) x 1300(H) x 580(D) mm | 39.4"(W) x 51.2"(H) x 22.9"(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/