

**SESL H SERIES** - THREE PHASE - 200 to 1500 kVAUnique  
Fault-Tolerant  
Regulation**COST EFFICIENT VOLTAGE STABILISATION**  
with fast speed of response, high output voltage accuracy and inbuilt energy saving ability.**FEATURES**

- **Automatic Voltage Regulation**  
Step less automated voltage regulation - ideal for 95% of all applications.
- **Wide Range of Power Ratings**  
Three Phase 200 to 1500 KVA
- **Broad Input Voltage Swing Ranges**  
Input Swing -  $\pm 10\%$  (S10),  $\pm 15\%$  (S15),  $\pm 20\%$  (S20),  $\pm 25\%$  (S25),  $\pm 30\%$  (S30),  $\pm 35\%$  (S35) &  $\pm 40\%$  (S40) - to specify.
- **Precise Output Voltage Regulation**  
Output Voltage Accuracy  $\pm 0.5\%$  /  $\pm 1.1\%$
- **Transient Voltage Surge Suppression**  
TVSS - Protects loads against harmful high-energy surges, transients and spikes.
- **High Efficiency**  
Better than 98% for low running costs.

**SERVO ELECTRONIC DESIGN**  
**AC VOLTAGE STABILISERS & REGULATORS**  
**AC THREE PHASE - 200 TO 1500 kVA**

380/220V - 400/230V - 415/240V - 50 or 60Hz

**SESL**  
4 WIRE - WITH NEUTRAL  
**H - THREE PHASE****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 SESL AC Voltage Stabilisers offer -**

- **Voltage Stability & Protection**  
Suitable for all electrical and electronic equipment, Ashley-Edison's SESL 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.
- **Configured for the Needs of Larger Sites / Applications**  
Based on the same highly reliable Servo Electronic design principle that underlies our smaller SES Series models, SESL Series AC Voltage Stabilisers & Regulators are specifically configured for the needs of larger site applications where -
  - the general electrical site infrastructure design may already incorporate some of the protection features commonly integrated as standard in the feature rich SES Series.
  - the maintenance of a 'Fault Tolerant' Input Voltage Swing Window for mission critical loads is highly desirable.
- **Fault-Tolerant Input Voltage Swing**  
SESL Stabilisers are equipped with Parallel Redundant Voltage Regulation Control Modules (VRCM). These modules are incorporated on each phase of the Stabiliser. Should one Module (VRCM) fail or malfunction, the other parallel Module will operate automatically without causing interruption to the load and also without affecting capacity. In other words, should one of these Control Units malfunction or fail, the Voltage Stabiliser will operate at 50% swing without affecting the Stabiliser's operation. The other two phases which are not affected, will still regulate independently as per normal, at 100% swing. This feature has a major added advantage of reducing inconvenient and expensive downtime and will ensure that the voltage is regulated continuously. This feature is especially useful for mission critical load applications.

- **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.
- **Input Swing Redundancy**  
Delivering fault tolerant regulation control - ideal for mission critical applications.
- **Bypass Control Switch**  
Manual Electronic Controls Bypass Facility
- **Over / Low Voltage Alarm**  
Front Panel status alarm in the event that the incoming voltage supply goes outside the input voltage window of the Stabiliser.
- **Front Panel Status Monitoring & Metering**  
Front Panel display showing system status with output Voltmeter and Ammeter.
- **No Volt Remote Monitoring Contacts**  
Delivering basic operational system status Information for use by remote monitoring / building management systems.
- **Optional Accessories**  
Input & Output Circuit Breakers, Manual Maintenance Bypass Switch, Digital Power Metering (with RS-485 interface option), Lightning Arrestors and more.
- **Compliance with International Standards**  
Designed, manufactured and supplied to comply with leading international standards
- **CE Conformity**  
Fully compliant and labelled

## VOLTAGE CHOICES AVAILABLE

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

### 4 WIRE SOLUTIONS

THREE PHASE WITH NEUTRAL (+ GROUND)

#### H SERIES

200 to 1500 kVA

High Voltage Models:

380/220V, 400/230V or 415/240V.

440/254V, 460/265V or 480/277V to order.

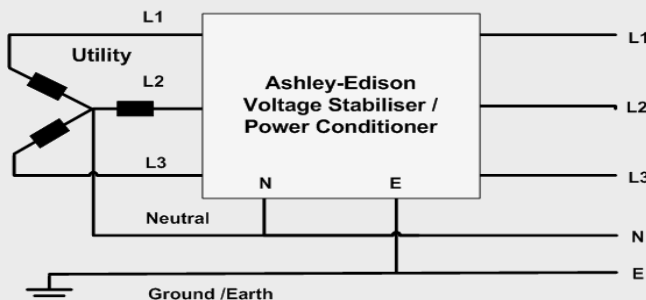
#### LY SERIES

200 to 500kVA

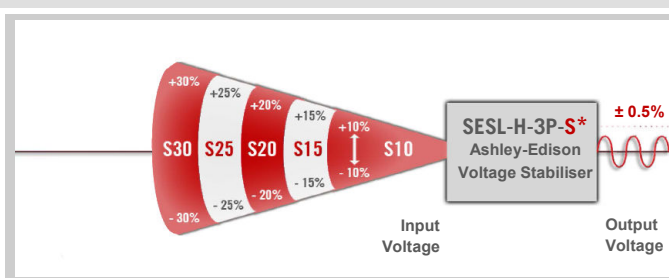
Low Voltage Models:

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  $\pm 10\%$  (S10 Models) will usually be more than acceptable, but in more remote locations, or countries where the national supply infrastructure is less developed, variations of  $\pm 15\%$  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 - SESL-H-3P-S\* Input Voltage Windows & Output Accuracy

Nominal Three Phase Voltage	Output Voltage Accuracy $\pm\%$ of Nominal	INPUT VOLTAGE SWINGS / SWING MODEL NO VARIANTS									
		S10		S15		S20		S25		S30	
		200 to 1500 kVA		200 to 1250 kVA		200 to 1000 kVA		200 to 750 kVA		200 to 600 kVA	
Readings	L-L	L-N	L-L	L-N	L-L	L-N	L-L	L-N	L-L	L-N	
380V L-N: 220V	$\pm 0.5\%$	342 to 418V	198 to 242V	323 to 437V	187 to 253V	304 to 456V	176 to 264V	285 to 475V	165 to 275V	266 to 494V	154 to 286V
		$(\pm 10\%)$		$(\pm 15\%)$		$(\pm 20\%)$		$(\pm 25\%)$		$(\pm 30\%)$	
	$\pm 3\%$	334 to 429V	194 to 249V	315 to 448V	183 to 260V	296 to 467V	172 to 271V	277 to 486V	161 to 282V	258 to 505V	150 to 293V
		$(-12\% / +13\%)$		$(-17\% / +18\%)$		$(-22\% / +23\%)$		$(-27\% / +28\%)$		$(-32\% / +33\%)$	
400V L-N: 230V	$\pm 0.5\%$	360 to 440V	207 to 253V	340 to 460V	196 to 265V	320 to 480V	184 to 276V	300 to 500V	173 to 288V	280 to 520V	161 to 299V
		$(\pm 10\%)$		$(\pm 15\%)$		$(\pm 20\%)$		$(\pm 25\%)$		$(\pm 30\%)$	
	$\pm 3\%$	352 to 452V	202 to 260V	332 to 472V	191 to 271V	312 to 492V	179 to 283V	292 to 512V	168 to 294V	272 to 532V	156 to 306V
		$(-12\% / +13\%)$		$(-17\% / +18\%)$		$(-22\% / +23\%)$		$(-27\% / +28\%)$		$(-32\% / +33\%)$	
415V L-N: 240V	$\pm 0.5\%$	374 to 457V	216 to 264V	353 to 477V	204 to 276V	332 to 498V	192 to 288V	311 to 519V	180 to 300V	291 to 540V	168 to 312V
		$(\pm 10\%)$		$(\pm 15\%)$		$(\pm 20\%)$		$(\pm 25\%)$		$(\pm 30\%)$	
	$\pm 3\%$	365 to 469V	211 to 271V	344 to 490V	199 to 283V	324 to 510V	187 to 295V	303 to 531V	175 to 307V	282 to 552V	163 to 319V
		$(-12\% / +13\%)$		$(-17\% / +18\%)$		$(-22\% / +23\%)$		$(-27\% / +28\%)$		$(-32\% / +33\%)$	
	$\pm 5\%$	357 to 481V	206 to 278V	336 to 502V	194 to 290V	315 to 523V	182 to 302V	295 to 544V	170 to 314V	274 to 564V	158 to 326V
		$(-14\% / +16\%)$		$(-19\% / +21\%)$		$(-24\% / +26\%)$		$(-29\% / +31\%)$		$(-34\% / +36\%)$	

**TECHNICAL SPECIFICATION**

<b>Technology:</b>	<b>Servo Electronic</b> - Variable Transformer controlled, series regulation transformer (buck-boost transformer with secondary wired in series with the load).
<b>Input Voltage Swing:</b>	<b>±10%</b> (or -12% +13% or -14% +16%) Three Phase, 4 Wire (with Neutral + Ground / Earth).
<b>Output Voltage:</b>	Pre-settable 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.
<b>Output Voltage Accuracy:</b>	<b>± 0.5%, ± 3% or ± 5 %</b> - auto selection based on input voltage swing.
<b>Frequency:</b>	47 - 65Hz
<b>Response Time:</b>	<1.5ms
<b>Correction Time:</b>	A 10% supply variation will be corrected to within 2.5% in 0.6 seconds.
<b>Efficiency:</b>	98%
<b>Power Factor:</b>	Any lagging to 0.95 leading
<b>Surge Ratings:</b>	10 x max. current rating for 2 seconds 3 x max. current rating for 1 minute 2 x max. current rating for 2 minutes
<b>Surge Suppression:</b>	<b>TVSS</b> - Protects loads against high-energy Spikes and Transient Voltages.
<b>Total Harmonic Distortion:</b>	Less than 1%
<b>Independent Phase Control:</b>	Maintains each phase voltage stable irrespective of load unbalance, even up to 100% load unbalance.
<b>Soft-Switch On:</b>	Ensures the output voltage is set at minimum upon Switch-On before commencing stabilization - protects load equipment from damaging start up voltage surges.

<b>Input Swing Redundancy:</b>	Parallel Redundant Voltage Regulation Control Modules (VRCM) on each phase. Should one Module fail or malfunction the other parallel Module will operate automatically without causing interruption to the load and also without affecting capacity.
<b>Environment:</b>	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.
<b>Construction:</b>	Enclosures to IP20 (NEMA 1 Style) - BS EN 60529.
<b>Paint Colour:</b>	RAL 7032 (Grey - Epoxy Powder Coating)
<b>EMC Conformance:</b>	Complies with BS EN 55022 and the relevant parts of the BS EN 61000 series of standards.
<b>CE Conformity:</b>	<b>CE Marked</b> - being fully compliant with European Union Directives 2004/108/EC (The EMC Directive) and 2006/95/EC (The Low Voltage Directive).
<b>Standard Warranty:</b>	Three Years / 36 Months from date of supply
<b>Standard Features:</b>	Over / Low Voltage (Relay - Volt Free Contacts) Power Module Protection Bypass Control Switch Voltmeter / Phase Selector Switch Ammeter / Phase Selector Switch
<b>Optional Accessories:</b>	Input Circuit Breaker Output Circuit Breaker Manual Maintenance Bypass Switch Lightning Surge Arrestors Over / Low Voltage Protection Phase Failure Protection Frequency Meter Drip Proof Cowl 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
<b>Optional Main System Switchboard (MSB):</b>	Matching System Switchboard with Input Circuit Breaker and Manual Maintenance Bypass Switch (optional Output Circuit Breaker).

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

**S10 PRODUCT SELECTION TABLE**ALSO available in Outdoor IP54 / NEMA 3 Style Enclosures - **OESL SERIES**

MODEL	kVA	Max Rating @ (Amps per Phase)			Dimensions & Weight		Enclosure Type
		@ 380V	@ 400V	@ 415V	W x H x D (mm)	(Kg)	
SESL-200H-3P-S10	200	303	288	278	1280 x 1480 x 660	570	336
SESL-250H-3P-S10	250	380	361	348	1280 x 1480 x 660	575	336
SESL-300H-3P-S10	300	456	433	417	1280 x 1480 x 660	600	336
SESL-350H-3P-S10	350	532	505	487	1280 x 1480 x 660	650	336
SESL-400H-3P-S10	400	608	577	556	1280 x 1480 x 660	660	336
SESL-450H-3P-S10	450	684	649	626	1280 x 1950 x 880	950	337
SESL-500H-3P-S10	500	760	722	695	1280 x 1950 x 880	960	337
SESL-600H-3P-S10	600	911	866	835	1280 x 1950 x 880	1010	337
SESL-650H-3P-S10	650	988	938	904	1280 x 1950 x 880	1130	337
SESL-700H-3P-S10	700	1064	1010	974	1280 x 1950 x 880	1140	337
SESL-750H-3P-S10	750	1139	1082	1043	1280 x 1950 x 880	1150	337
SESL-800H-3P-S10	800	1216	1155	1113	1340 x 1950 x 1280	1560	338
SESL-900H-3P-S10	900	1367	1299	1252	1340 x 1950 x 1280	1570	338
SESL-1000H-3P-S10	1000	1519	1443	1391	1340 x 1950 x 1280	1580	338
SESL-1200H-3P-S10	1200	1823	1732	1669	1340 x 1950 x 1280	1670	338
SESL-1250H-3P-S10	1250	1898	1803	1738	1340 x 1950 x 1280	1730	338
SESL-1500H-3P-S10	1500	2279	2165	2087	1470 x 1950 x 1340	2000	339

**TECHNICAL SPECIFICATION**

<b>Technology:</b>	Servo Electronic - Variable Transformer controlled, series regulation transformer (buck-boost transformer with secondary wired in series with the load).
<b>Input Voltage Swing:</b>	±15% (or -17% +18% or -19% +21%) Three Phase, 4 Wire (with Neutral + Ground / Earth).
<b>Output Voltage:</b>	Pre-settable 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.
<b>Output Voltage Accuracy:</b>	± 0.5%, ± 3% or ± 5 % - <i>auto selection based on input voltage swing.</i>
<b>Frequency:</b>	47 - 65Hz
<b>Response Time:</b>	<1.5ms
<b>Correction Time:</b>	A 10% supply variation will be corrected to within 2.5% in 0.6 seconds.
<b>Efficiency:</b>	98%
<b>Power Factor:</b>	Any lagging to 0.95 leading
<b>Surge Ratings:</b>	10 x max. current rating for 2 seconds 3 x max. current rating for 1 minute 2 x max. current rating for 2 minutes
<b>Surge Suppression:</b>	TVSS - Protects loads against high-energy Spikes and Transient Voltages.
<b>Total Harmonic Distortion:</b>	Less than 1%
<b>Independent Phase Control:</b>	Maintains each phase voltage stable irrespective of load unbalance, even up to 100% load unbalance.
<b>Soft-Switch On:</b>	Ensures the output voltage is set at minimum upon Switch-On before commencing stabilization - protects load equipment from damaging start up voltage surges.

<b>Input Swing Redundancy:</b>	Parallel Redundant Voltage Regulation Control Modules (VRCM) on each phase. Should one Module fail or malfunction the other parallel Module will operate automatically without causing interruption to the load and also without affecting capacity.
<b>Environment:</b>	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.
<b>Construction:</b>	Enclosures to IP20 (NEMA 1 Style) - BS EN 60529.
<b>Paint Colour:</b>	RAL 7032 (Grey - Epoxy Powder Coating)
<b>EMC Conformance:</b>	Complies with BS EN 55022 and the relevant parts of the BS EN 61000 series of standards.
<b>CE Conformity:</b>	<b>CE Marked</b> - being fully compliant with European Union Directives 2004/108/EC (The EMC Directive) and 2006/95/EC (The Low Voltage Directive).
<b>Standard Warranty:</b>	Three Years / 36 Months from date of supply
<b>Standard Features:</b>	Over / Low Voltage (Relay - Volt Free Contacts) Power Module Protection Bypass Control Switch Voltmeter / Phase Selector Switch Ammeter / Phase Selector Switch
<b>Optional Accessories:</b>	Input Circuit Breaker Output Circuit Breaker Manual Maintenance Bypass Switch Lightning Surge Arrestors Over / Low Voltage Protection Phase Failure Protection Frequency Meter Drip Proof Cowl 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
<b>Optional Main System Switchboard (MSB):</b>	Matching System Switchboard with Input Circuit Breaker and Manual Maintenance Bypass Switch ( <i>optional Output Circuit Breaker</i> ).

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

**S15 PRODUCT SELECTION TABLE**ALSO available in Outdoor IP54 / NEMA 3 Style Enclosures - **OSESL SERIES**

MODEL	kVA	Max Rating @ (Amps per Phase)			Dimensions & Weight		Enclosure Type
		@ 380V	@ 400V	@ 415V	W x H x D (mm)	(Kg)	
SESL-200H-3P-S15	200	303	288	278	1280 x 1480 x 660	695	336
SESL-250H-3P-S15	250	380	361	348	1280 x 1480 x 660	700	336
SESL-300H-3P-S15	300	456	433	417	1280 x 1480 x 660	800	336
SESL-350H-3P-S15	350	532	505	487	1280 x 1950 x 880	955	337
SESL-400H-3P-S15	400	608	577	556	1280 x 1950 x 880	965	337
SESL-450H-3P-S15	450	684	649	626	1280 x 1950 x 880	1005	337
SESL-500H-3P-S15	500	760	722	695	1280 x 1950 x 880	1015	337
SESL-600H-3P-S15	600	911	866	835	1340 x 1950 x 1280	1400	338
SESL-650H-3P-S15	650	988	938	904	1340 x 1950 x 1280	1460	338
SESL-700H-3P-S15	700	1064	1010	974	1340 x 1950 x 1280	1470	338
SESL-750H-3P-S15	750	1139	1082	1043	1340 x 1950 x 1280	1480	338
SESL-800H-3P-S15	800	1216	1155	1113	1340 x 1950 x 1280	1760	338
SESL-900H-3P-S15	900	1367	1299	1252	1340 x 1950 x 1280	1780	338
SESL-1000H-3P-S15	1000	1519	1443	1391	1340 x 1950 x 1280	1800	338
SESL-1200H-3P-S15	1200	1823	1732	1669	1340 x 1950 x 1280	2180	338
SESL-1250H-3P-S15	1250	1898	1803	1738	1470 x 1950 x 1340	2240	339

**TECHNICAL SPECIFICATION**

<b>Technology:</b>	Servo Electronic - Variable Transformer controlled, series regulation transformer (buck-boost transformer with secondary wired in series with the load).
<b>Input Voltage Swing:</b>	±20% (or -22% +23% or -24% +26%) Three Phase, 4 Wire (with Neutral + Ground / Earth).
<b>Output Voltage:</b>	Pre-settable 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.
<b>Output Voltage Accuracy:</b>	± 0.5%, ± 3% or ± 5% - auto selection based on input voltage swing.
<b>Frequency:</b>	47 - 65Hz
<b>Response Time:</b>	<1.5ms
<b>Correction Time:</b>	A 10% supply variation will be corrected to within 2.5% in 0.6 seconds.
<b>Efficiency:</b>	98%
<b>Power Factor:</b>	Any lagging to 0.95 leading
<b>Surge Ratings:</b>	10 x max. current rating for 2 seconds 3 x max. current rating for 1 minute 2 x max. current rating for 2 minutes
<b>Surge Suppression:</b>	TVSS - Protects loads against high-energy Spikes and Transient Voltages.
<b>Total Harmonic Distortion:</b>	Less than 1%
<b>Independent Phase Control:</b>	Maintains each phase voltage stable irrespective of load unbalance, even up to 100% load unbalance.
<b>Soft-Switch On:</b>	Ensures the output voltage is set at minimum upon Switch-On before commencing stabilization - protects load equipment from damaging start up voltage surges.

<b>Input Swing Redundancy:</b>	Parallel Redundant Voltage Regulation Control Modules (VRCM) on each phase. Should one Module fail or malfunction the other parallel Module will operate automatically without causing interruption to the load and also without affecting capacity.
<b>Environment:</b>	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.
<b>Construction:</b>	Enclosures to IP20 (NEMA 1 Style) - BS EN 60529.
<b>Paint Colour:</b>	RAL 7032 (Grey - Epoxy Powder Coating)
<b>EMC Conformance:</b>	Complies with BS EN 55022 and the relevant parts of the BS EN 61000 series of standards.
<b>CE Conformity:</b>	<b>CE Marked</b> - being fully compliant with European Union Directives 2004/108/EC (The EMC Directive) and 2006/95/EC (The Low Voltage Directive).
<b>Standard Warranty:</b>	Three Years / 36 Months from date of supply
<b>Standard Features:</b>	Over / Low Voltage (Relay - Volt Free Contacts) Power Module Protection Bypass Control Switch Voltmeter / Phase Selector Switch Ammeter / Phase Selector Switch
<b>Optional Accessories:</b>	Input Circuit Breaker Output Circuit Breaker Manual Maintenance Bypass Switch Lightning Surge Arrestors Over / Low Voltage Protection Phase Failure Protection Frequency Meter Drip Proof Cowl 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
<b>Optional Main System Switchboard (MSB):</b>	Matching System Switchboard with Input Circuit Breaker and Manual Maintenance Bypass Switch (optional Output Circuit Breaker).

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

**S20 PRODUCT SELECTION TABLE**ALSO available in Outdoor IP54 / NEMA 3 Style Enclosures - **OSESL** SERIES

MODEL	kVA	Max Rating @ (Amps per Phase)			Dimensions & Weight		Enclosure Type
		@ 380V	@ 400V	@ 415V	W x H x D (mm)	(Kg)	
SESL-200H-3P-S20	200	303	288	278	1280 x 1480 x 660	720	336
SESL-250H-3P-S20	250	380	361	348	1280 x 1950 x 880	900	337
SESL-300H-3P-S20	300	456	433	417	1280 x 1950 x 880	970	337
SESL-350H-3P-S20	350	532	505	487	1340 x 1950 x 1280	1280	338
SESL-400H-3P-S20	400	608	577	556	1340 x 1950 x 1280	1300	338
SESL-450H-3P-S20	450	684	649	626	1340 x 1950 x 1280	1410	338
SESL-500H-3P-S20	500	760	722	695	1340 x 1950 x 1280	1430	338
SESL-600H-3P-S20	600	911	866	835	1340 x 1950 x 1280	1480	338
SESL-650H-3P-S20	650	988	938	904	1340 x 1950 x 1280	1820	338
SESL-700H-3P-S20	700	1064	1010	974	1340 x 1950 x 1280	1840	338
SESL-750H-3P-S20	750	1139	1082	1043	1340 x 1950 x 1280	1860	338
SESL-800H-3P-S20	800	1216	1155	1113	1470 x 1950 x 1340	2180	339
SESL-900H-3P-S20	900	1367	1299	1252	1470 x 1950 x 1340	2200	339
SESL-1000H-3P-S20	1000	1519	1443	1391	1470 x 1950 x 1340	2220	339



**TECHNICAL SPECIFICATION**

<b>Technology:</b>	Servo Electronic - Variable Transformer controlled, series regulation transformer (buck-boost transformer with secondary wired in series with the load).
<b>Input Voltage Swing:</b>	±25% (or -27% +28% or -29% +31%) Three Phase, 4 Wire (with Neutral + Ground / Earth).
<b>Output Voltage:</b>	Pre-settable 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.
<b>Output Voltage Accuracy:</b>	± 0.5%, ± 3% or ± 5% - auto selection based on input voltage swing.
<b>Frequency:</b>	47 - 65Hz
<b>Response Time:</b>	<1.5ms
<b>Correction Time:</b>	A 10% supply variation will be corrected to within 2.5% in 0.6 seconds.
<b>Efficiency:</b>	98%
<b>Power Factor:</b>	Any lagging to 0.95 leading
<b>Surge Ratings:</b>	10 x max. current rating for 2 seconds 3 x max. current rating for 1 minute 2 x max. current rating for 2 minutes
<b>Surge Suppression:</b>	TVSS - Protects loads against high-energy Spikes and Transient Voltages.
<b>Total Harmonic Distortion:</b>	Less than 1%
<b>Independent Phase Control:</b>	Maintains each phase voltage stable irrespective of load unbalance, even up to 100% load unbalance.
<b>Soft-Switch On:</b>	Ensures the output voltage is set at minimum upon Switch-On before commencing stabilization - protects load equipment from damaging start up voltage surges.

<b>Input Swing Redundancy:</b>	Parallel Redundant Voltage Regulation Control Modules (VRCM) on each phase. Should one Module fail or malfunction the other parallel Module will operate automatically without causing interruption to the load and also without affecting capacity.
<b>Environment:</b>	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.
<b>Construction:</b>	Enclosures to IP20 (NEMA 1 Style) - BS EN 60529.
<b>Paint Colour:</b>	RAL 7032 (Grey - Epoxy Powder Coating)
<b>EMC Conformance:</b>	Complies with BS EN 55022 and the relevant parts of the BS EN 61000 series of standards.
<b>CE Conformity:</b>	<b>CE Marked</b> - being fully compliant with European Union Directives 2004/108/EC (The EMC Directive) and 2006/95/EC (The Low Voltage Directive).
<b>Standard Warranty:</b>	Three Years / 36 Months from date of supply
<b>Standard Features:</b>	Over / Low Voltage (Relay - Volt Free Contacts) Power Module Protection Bypass Control Switch Voltmeter / Phase Selector Switch Ammeter / Phase Selector Switch
<b>Optional Accessories:</b>	Input Circuit Breaker Output Circuit Breaker Manual Maintenance Bypass Switch Lightning Surge Arrestors Over / Low Voltage Protection Phase Failure Protection Frequency Meter Drip Proof Cowl 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
<b>Optional Main System Switchboard (MSB):</b>	Matching System Switchboard with Input Circuit Breaker and Manual Maintenance Bypass Switch (optional Output Circuit Breaker).

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

**S25 PRODUCT SELECTION TABLE**ALSO available in Outdoor IP54 / NEMA 3 Style Enclosures - **OSESL** SERIES

MODEL	kVA	Max Rating @ (Amps per Phase)			Dimensions & Weight		Enclosure Type
		@ 380V	@ 400V	@ 415V	W x H x D (mm)	(Kg)	
SESL-200H-3P-S25	200	303	288	278	1280 x 1950 x 820	940	337
SESL-250H-3P-S25	250	380	361	348	1280 x 1950 x 820	1000	337
SESL-300H-3P-S25	300	456	433	417	1340 x 1950 x 1280	1300	338
SESL-350H-3P-S25	350	532	505	487	1340 x 1950 x 1280	1410	338
SESL-400H-3P-S25	400	608	577	556	1340 x 1950 x 1280	1430	338
SESL-450H-3P-S25	450	684	649	626	1340 x 1950 x 1280	1680	338
SESL-500H-3P-S25	500	760	722	695	1340 x 1950 x 1280	1700	338
SESL-600H-3P-S25	600	911	866	835	1340 x 1950 x 1280	1880	338
SESL-650H-3P-S25	650	988	938	904	1470 x 1950 x 1340	2140	339
SESL-700H-3P-S25	700	1064	1010	974	1470 x 1950 x 1340	2170	339
SESL-750H-3P-S25	750	1139	1082	1043	1470 x 1950 x 1340	2200	339

**TECHNICAL SPECIFICATION**

<b>Technology:</b>	Servo Electronic - Variable Transformer controlled, series regulation transformer (buck-boost transformer with secondary wired in series with the load).
<b>Input Voltage Swing:</b>	±30% (or -32% +33% or -34% +36%) Three Phase, 4 Wire (with Neutral + Ground / Earth).
<b>Output Voltage:</b>	Pre-settable 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.
<b>Output Voltage Accuracy:</b>	± 0.5%, ± 3% or ± 5% - auto selection based on input voltage swing.
<b>Frequency:</b>	47 - 65Hz
<b>Response Time:</b>	<1.5ms
<b>Correction Time:</b>	A 10% supply variation will be corrected to within 2.5% in 0.6 seconds.
<b>Efficiency:</b>	98%
<b>Power Factor:</b>	Any lagging to 0.95 leading
<b>Surge Ratings:</b>	10 x max. current rating for 2 seconds 3 x max. current rating for 1 minute 2 x max. current rating for 2 minutes
<b>Surge Suppression:</b>	TVSS - Protects loads against high-energy Spikes and Transient Voltages.
<b>Total Harmonic Distortion:</b>	Less than 1%
<b>Independent Phase Control:</b>	Maintains each phase voltage stable irrespective of load unbalance, even up to 100% load unbalance.
<b>Soft-Switch On:</b>	Ensures the output voltage is set at minimum upon Switch-On before commencing stabilization - protects load equipment from damaging start up voltage surges.

<b>Input Swing Redundancy:</b>	Parallel Redundant Voltage Regulation Control Modules (VRCM) on each phase. Should one Module fail or malfunction the other parallel Module will operate automatically without causing interruption to the load and also without affecting capacity.
<b>Environment:</b>	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.
<b>Construction:</b>	Enclosures to IP20 (NEMA 1 Style) - BS EN 60529.
<b>Paint Colour:</b>	RAL 7032 (Grey - Epoxy Powder Coating)
<b>EMC Conformance:</b>	Complies with BS EN 55022 and the relevant parts of the BS EN 61000 series of standards.
<b>CE Conformity:</b>	<b>CE Marked</b> - being fully compliant with European Union Directives 2004/108/EC (The EMC Directive) and 2006/95/EC (The Low Voltage Directive).
<b>Standard Warranty:</b>	Three Years / 36 Months from date of supply
<b>Standard Features:</b>	Over / Low Voltage (Relay - Volt Free Contacts) Power Module Protection Bypass Control Switch Voltmeter / Phase Selector Switch Ammeter / Phase Selector Switch
<b>Optional Accessories:</b>	Input Circuit Breaker Output Circuit Breaker Manual Maintenance Bypass Switch Lightning Surge Arrestors Over / Low Voltage Protection Phase Failure Protection Frequency Meter Drip Proof Cowl 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
<b>Optional Main System Switchboard (MSB):</b>	Matching System Switchboard with Input Circuit Breaker and Manual Maintenance Bypass Switch (optional Output Circuit Breaker).

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

**S30 PRODUCT SELECTION TABLE**ALSO available in Outdoor IP54 / NEMA 3 Style Enclosures - **OSESL** SERIES

MODEL	kVA	Max Rating @ (Amps per Phase)			Dimensions & Weight		Enclosure Type
		@ 380V	@ 400V	@ 415V	W x H x D (mm)	(Kg)	
SESL-200H-3P-S30	200	303	288	278	1280 x 1950 x 880	1100	337
SESL-250H-3P-S30	250	380	361	348	1340 x 1950 x 1280	1600	338
SESL-300H-3P-S30	300	456	433	417	1340 x 1950 x 1280	1780	338
SESL-350H-3P-S30	350	532	505	487	1340 x 1950 x 1280	1830	338
SESL-400H-3P-S30	400	608	577	556	1340 x 1950 x 1280	1860	338
SESL-450H-3P-S30	450	684	649	626	1340 x 1950 x 1280	1920	338
SESL-500H-3P-S30	500	760	722	695	1340 x 1950 x 1280	2000	338
SESL-600H-3P-S30	600	911	866	835	1470 x 1950 x 1340	2200	339

Note: Alternative voltage options available to order / individual request.



# SESL H SERIES - THREE PHASE - 200 to 1500 kVA

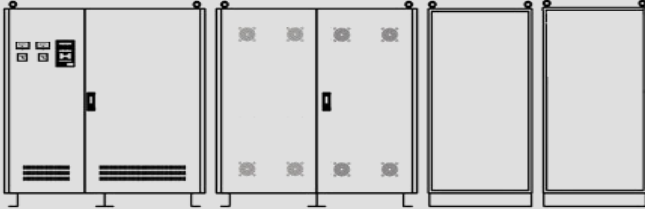
## STANDARD ENCLOSURE TYPES

ALSO available in Outdoor IP54 / NEMA 3 Style Enclosures - **OESL** SERIES

### 336 Enclosure

336 - Bottom Cable Entry

Front Rear Left Side Right Side



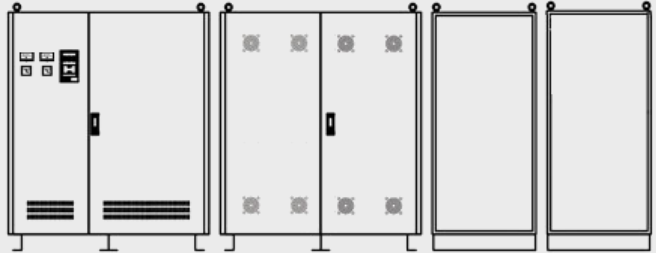
**Physical Size:**

<b>336</b>	1280(W) x 1480(H) x 660(D) mm	50.4"(W) x 58.3"(H) x 26.0"(D) inches
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### 337 Enclosure

Top Cable Entry (Bottom to Special Order)

Front Rear Left Side Right Side



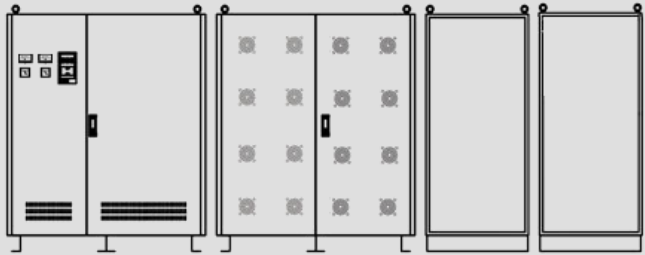
**Physical Size:**

<b>337</b>	1280(W) x 1950(H) x 880(D) mm	50.4"(W) x 76.8"(H) x 34.7"(D) inches
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### 338 & 339 Enclosures

Top Cable Entry (Bottom to Special Order)

Front Rear Left Side Right Side



**Physical Size:**

<b>338</b>	1340(W) x 1950(H) x 1280(D) mm	52.8"(W) x 76.8"(H) x 50.4"(D) inches
<b>339</b>	1470(W) x 1950(H) x 1340(D) mm	57.9"(W) x 76.8"(H) x 52.8"(D) inches

### Typical 339 Style System

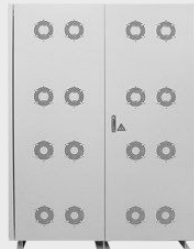
SESL-1250H-3P-S15  
1250 kVA

Front View



Internal

Rear View

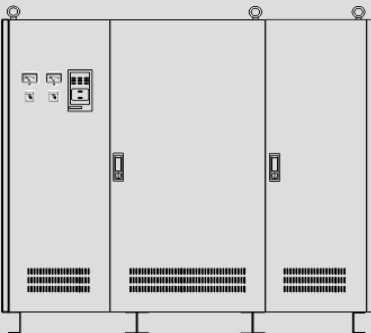


Internal

## ADDITIONAL ENCLOSURE TYPES

Typically utilised to accommodate **SESL** Stabilisers with additional options fitted.

### 336E to 339E Enclosures

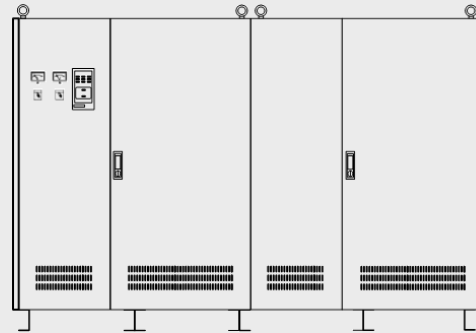


Front View

**Physical Size:**

<b>336E</b>	1880(W) x 1480(H) x 660(D) mm	74.1"(W) x 58.3"(H) x 26.0"(D) inches
<b>337E</b>	1880(W) x 1950(H) x 880(D) mm	74.1"(W) x 76.8"(H) x 34.7"(D) inches
<b>338E</b>	2040(W) x 1950(H) x 1280(D) mm	80.4"(W) x 76.8"(H) x 50.4"(D) inches
<b>339E</b>	2170(W) x 1950(H) x 1340(D) mm	85.5"(W) x 76.8"(H) x 52.8"(D) inches

### 336ED to 338ED Enclosures



Front View

**Physical Size:**

<b>336ED</b>	2480(W) x 1480(H) x 660(D) mm	97.7"(W) x 58.3"(H) x 26.0"(D) inches
<b>337ED</b>	2480(W) x 1950(H) x 880(D) mm	97.7"(W) x 76.8"(H) x 34.7"(D) inches
<b>338ED</b>	2540(W) x 1950(H) x 1280(D) mm	100"(W) x 76.8"(H) x 50.4"(D) inches



**OPTION - INBUILT MAIN SYSTEM SWITCHBOARD (MSB) WITH OPTIONAL BYPASS**

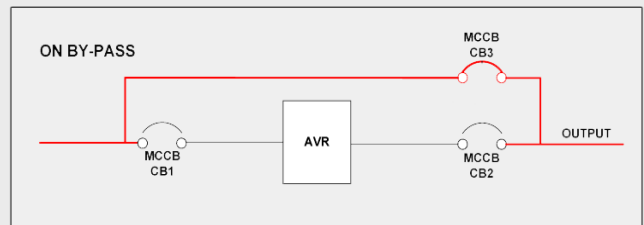
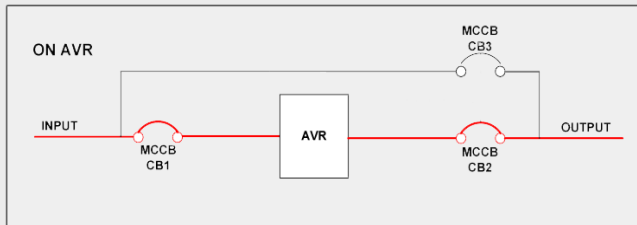
Fully integrated, space saving, Main System Switchboard (MSB) with Input and Output MCCBs and optional Manual Bypass facility.



Typical Internal View



**BYPASS SINGLE LINE DIAGRAM**



**SESL TYPICAL APPLICATIONS**

- Computers & Network Systems
- Laboratory Equipment
- Audio/Video Systems
- Medical Equipment
- Process Control Systems
- Production Lines
- Electronics Equipment
- TV/Radio Broadcasting Stations
- CNC Machines
- Testing Equipment
- Elevators / Lifts
- SMT Equipment



**AVAILABILITY**

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

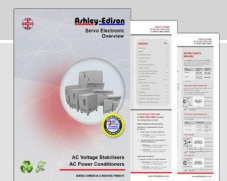
Many of our most popular ratings are readily available from stock at the factory or from one of our strategically located Service and Distribution Hubs. Where a solution is not readily available, due to our considerable investment in component inventory and fine-tuned accredited build processes, we are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

**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  
<http://www.AshleyEdison.com/Selector>

**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.

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