

SES LY SERIES - THREE PHASE - 6 to 200 kVA

COST EFFICIENT VOLTAGE STABILIZATION 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.
- **Transient Voltage Surge Suppression**
TVSS - Protects loads against harmful high-energy surges, transients and spikes.
- **Wide Range of Power Ratings**
Three Phase - 6 to 200 KVA
- **Broad Input Voltage Swing Ranges**
Input Swing - $\pm 15\%$ (S15), $\pm 20\%$ (S20), $\pm 25\%$ (S25), $\pm 30\%$ (S30), $\pm 35\%$ (S35) & $\pm 40\%$ (S40) - to specify.
- **High Efficiency**
Better than 98% for low running costs.
- **Precise Output Voltage Regulation**
Output Voltage Accuracy $\pm 0.5\%$



SERVO ELECTRONIC DESIGN AC VOLTAGE STABILIZERS & REGULATORS

AC - **THREE PHASE** - 6 TO 200 kVA

190V/110V - 200V/115V - 208V/120V - 220V/120V - 50 or 60Hz

SES

4 WIRE - WITH NEUTRAL

LY - **THREE PHASE** 

ENSURING A STABLE AC UTILITY SUPPLY VOLTAGE

AC utility supply 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 utility voltage is stable and clean can often result in costly equipment repairs and unscheduled down-time.

Ashley-Edison AC Voltage Stabilizers offer -

- **Voltage Stability & Protection**

Suitable for all electrical and electronic equipment, Ashley-Edison's SES AC Voltage Stabilizers continuously monitor the incoming supply. Should the incoming voltage rise or drop, the Stabilizers will automatically control the output to ensure the voltage reaching the load equipment always remains constant at the requisite voltage. Inbuilt spike protection ensures the load is continuously protected against harmful utility supply born high energy spikes and surges.

- **Durability & Dependability**

With an impressively wide range of input voltage window options and precise output voltage regulation, the electro - mechanical / electronic servo design based SES Voltage Stabilizers have repeatedly proven their durability and dependability in some of the world's harshest and most demanding power environments.

- **Energy Efficiency**

Characterized by high efficiency, SES Stabilizers are completely unaffected by power factor and load variations. Able to withstand high instantaneous overloads, SES Stabilizers do not generate any magnetic interference - making them ideal for being located near to sensitive equipment. Through delivering a regulated, stable and optimized voltage to the equipment they support, SES Stabilizers ensure you only pay for the actual energy you need.

- **Unparalleled Protection and Value**

Unparalleled inbuilt protection features, including the provision of Soft Switch-On as standard on all models, ensures SES AC Voltage Stabilizers deliver, without compromising on technical performance or quality, outstanding value for money.

- **Inbuilt High Overload Capability**
Ideal for loads with an inherent initial high current draw on start-up.
- **Independent Phase Balancing & Control** Independent phase voltage sensing and control to ensure the individual phase voltages remain stable - regardless of load unbalance .
- **Soft - Switch On / 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.
- **Input Circuit Breaker** Standard protection on all models.
- **Front Panel Status Monitoring & Metering** Showing system status with internal output voltmeter with phase selector switch.
- **Compliance with International Standards** Designed, manufactured and supplied to comply with leading international standards.

VOLTAGE CHOICES AVAILABLE

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

4 WIRE SOLUTIONS

THREE PHASE WITH NEUTRAL (+GROUND/EARTH)

LY SERIES

6 to 200 kVA

Low Voltage Models:

190V/110V, 200V/115V, 208V/120V & 220/127V



Other voltages available on individual request / quotation.

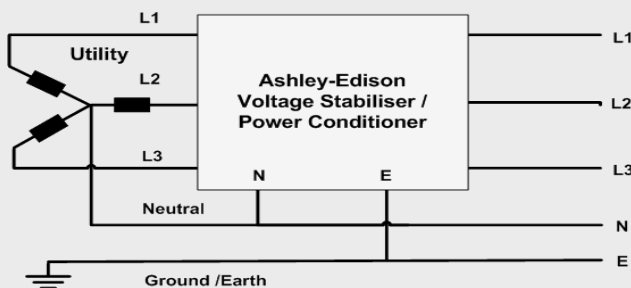
H SERIES

6 to 600 kVA

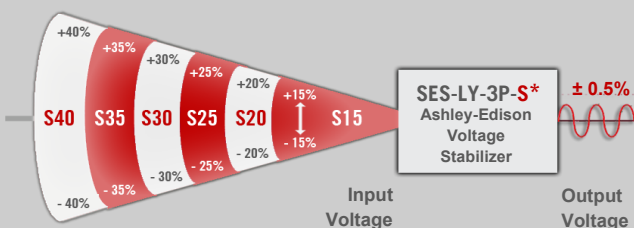
High Voltage Models:

380V/220V, 400V/230V & 415V/240V

X468 Models: 440V/254V, 460V/265V & 480V/277V



LY SERIES INPUT VOLTAGE WINDOW OPTIONS



In situations where there is a reasonably good utility supply, a Stabilizer offering an input variation swing of $\pm 15\%$ (**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 $\pm 20\%$ or greater may be needed to be accommodated by the Stabilizer.

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



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

Nominal Three Phase Voltage	Output Voltage Accuracy $\pm\%$ of Nominal	INPUT VOLTAGE SWINGS / SWING MODEL NO VARIANTS S*											
		S15		S20		S25		S30		S35		S40	
		6 to 200 kVA		6 to 200 kVA		6 to 200 kVA		6 to 150 kVA		6 to 120 kVA		6 to 120 kVA	
Readings		L-L	L-N	L-L	L-N	L-L	L-N	L-L	L-N	L-L	L-N	L-L	L-N
190V L-N: 110V	$\pm 0.5\%$	162 to 219V ($\pm 15\%$)	94 to 127V	152 to 228V ($\pm 20\%$)	88 to 132V	143 to 238V ($\pm 25\%$)	83 to 138V	133 to 247V ($\pm 30\%$)	77 to 143V	124 to 257V ($\pm 35\%$)	72 to 149V	114 to 266V ($\pm 40\%$)	66 to 154V
	$\pm 3\%$	158 to 224V (-17% / +18%)	91 to 130V	148 to 234V (-22% / +23%)	86 to 135V	139 to 243V (-27% / +28%)	80 to 141V	129 to 253V (-32% / +33%)	75 to 146V	120 to 262V (-37% / +38%)	69 to 152V	110 to 272V (-42% / +43%)	64 to 157V
	$\pm 5\%$	154 to 230V (-19% / +21%)	89 to 133V	144 to 239V (-24% / +26%)	84 to 138V	135 to 249V (-29% / +31%)	78 to 144V	125 to 258V (-34% / +36%)	73 to 150V	116 to 268V (-39% / +41%)	67 to 155V	106 to 277V (-44% / +46%)	62 to 161V
200V L-N: 115V	$\pm 0.5\%$	170 to 230V ($\pm 15\%$)	98 to 132V	160 to 240V ($\pm 20\%$)	92 to 138V	150 to 250V ($\pm 25\%$)	86 to 144V	140 to 260V ($\pm 30\%$)	81 to 150V	130 to 270V ($\pm 35\%$)	75 to 155V	120 to 280V ($\pm 40\%$)	69 to 161V
	$\pm 3\%$	166 to 236V (-17% / +18%)	95 to 136V	156 to 246V (-22% / +23%)	90 to 141V	146 to 256V (-27% / +28%)	84 to 147V	136 to 266V (-32% / +33%)	78 to 153V	126 to 276V (-37% / +38%)	72 to 159V	116 to 286V (-42% / +43%)	67 to 164V
	$\pm 5\%$	162 to 242V (-19% / +21%)	93 to 139V	152 to 252V (-24% / +26%)	87 to 145V	142 to 262V (-29% / +31%)	82 to 151V	132 to 272V (-34% / +36%)	76 to 156V	122 to 282V (-39% / +41%)	70 to 162V	112 to 292V (-44% / +46%)	64 to 168V
208V L-N: 120V	$\pm 0.5\%$	177 to 239V ($\pm 15\%$)	102 to 138V	166 to 250V ($\pm 20\%$)	96 to 144V	156 to 260V ($\pm 25\%$)	90 to 150V	146 to 270V ($\pm 30\%$)	84 to 156V	135 to 281V ($\pm 35\%$)	78 to 162V	125 to 291V ($\pm 40\%$)	72 to 168V
	$\pm 3\%$	173 to 245V (-17% / +18%)	100 to 142V	162 to 256V (-22% / +23%)	94 to 148V	152 to 266V (-27% / +28%)	88 to 154V	141 to 277V (-32% / +33%)	82 to 160V	131 to 287V (-37% / +38%)	76 to 166V	121 to 297V (-42% / +43%)	70 to 172V
	$\pm 5\%$	168 to 252V (-19% / +21%)	97 to 145V	158 to 262V (-24% / +26%)	91 to 151V	148 to 272V (-29% / +31%)	85 to 157V	137 to 283V (-34% / +36%)	79 to 163V	127 to 293V (-39% / +41%)	73 to 169V	116 to 304V (-44% / +46%)	67 to 175V
220V L-N: 127V	$\pm 0.5\%$	187 to 253V ($\pm 15\%$)	108 to 146V	176 to 264V ($\pm 20\%$)	102 to 152V	165 to 275V ($\pm 25\%$)	95 to 159V	154 to 286V ($\pm 30\%$)	89 to 165V	143 to 297V ($\pm 35\%$)	83 to 171V	132 to 308V ($\pm 40\%$)	76 to 178V
	$\pm 3\%$	183 to 260V (-17% / +18%)	105 to 150V	172 to 271V (-22% / +23%)	99 to 156V	161 to 282V (-27% / +28%)	93 to 163V	150 to 293V (-32% / +33%)	86 to 169V	139 to 304V (-37% / +38%)	80 to 175V	128 to 315V (-42% / +43%)	74 to 182V
	$\pm 5\%$	178 to 266V (-19% / +21%)	103 to 154V	167 to 277V (-24% / +26%)	97 to 160V	156 to 288V (-29% / +31%)	90 to 166V	145 to 299V (-34% / +36%)	84 to 173V	134 to 310V (-39% / +41%)	77 to 179V	123 to 321V (-44% / +46%)	71 to 185V

TECHNICAL SPECIFICATION

Technology:	Servo Electronic - Variable Transformer controlled, series regulation transformer (buck-boast transformer with secondary wired in series with the load).
Input Voltage Swing:	±15% (or -17% +18% or -19% +21%) Three Phase, 4 Wire (with Neutral + Ground / Earth).
Output Voltage:	Pre-settable for any voltage between 190V/110V, 200V/115V, 208V/120V or 220V/127V - Customer to Specify, Three Phase, 4 Wire (3 Phase + Neutral + G/E) 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:	Any lagging to 0.95 leading
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 NEMA 1 Style (IP20) - BS EN 60529.
Paint Color:	RAL 7032 (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 2004/108/EC (The EMC Directive) and 2006/95/EC (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, Lightning Arrestors, Manual Maintenance Bypass Switch, Ammeter with Phase Selector Switch, No Volt Remote Monitoring Contacts, Digital Power Metering (with RS-485 interface option) & AquaStop Protective Coating - protection against damp and moisture ingress.
Optional Step-Up Voltage Feature:	Ideal for applications where the utility supply voltage is different from the load equipment's requirement - see SES-LH SERIES Step-Up AC Voltage Stabilizers / Regulators.
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-LY SERIES AC Power Line Conditioners.

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



S15 PRODUCT SELECTION TABLE

ALSO available in Indoor NEMA 3 Style / IP54 Enclosures - **0SES-LY SERIES**

MODEL	Rating kVA	Max Rating @ (Amps per Phase)				Dimensions W x H x D mm	Wt Kg	Enc. No
		190V	200V	208V	220V			
SES-6LY-3P-S15	6	18	17	16	15	300 x 550 x 590	65	331
SES-10LY-3P-S15	10	30	28	27	26	300 x 550 x 590	66	331
SES-15LY-3P-S15	15	45	43	41	39	300 x 550 x 590	74	331
SES-20LY-3P-S15	20	60	57	55	52	300 x 550 x 590	81	331
SES-25LY-3P-S15	25	75	72	69	65	300 x 550 x 590	89	331
SES-30LY-3P-S15	30	91	86	83	78	300 x 550 x 590	91	331
SES-35LY-3P-S15	35	106	101	97	91	380 x 670 x 780	142	332
SES-40LY-3P-S15	40	121	115	111	104	380 x 670 x 780	143	332
SES-45LY-3P-S15	45	136	129	124	118	380 x 670 x 780	144	332
SES-50LY-3P-S15	50	151	144	138	131	490 x 800 x 990	162	333

MODEL	Rating kVA	Max Rating @ (Amps per Phase)				Dimensions W x H x D mm	Wt Kg	Enc. No
		190V	200V	208V	220V			
SES-55LY-3P-S15	55	167	158	152	144	490 x 800 x 990	164	333
SES-60LY-3P-S15	60	182	173	166	157	490 x 800 x 990	166	333
SES-75LY-3P-S15	75	227	216	208	196	540 x 900 x 1000	162	334
SES-80LY-3P-S15	80	243	230	222	209	540 x 900 x 1000	256	334
SES-90LY-3P-S15	90	273	259	249	236	540 x 900 x 1000	258	334
SES-100LY-3P-S15	100	303	288	277	262	540 x 900 x 1000	260	334
SES-120LY-3P-S15	120	364	346	333	314	1000 x 1300 x 580	410	335
SES-150LY-3P-S15	150	456	432	416	393	1000 x 1300 x 580	650	335
SES-180LY-3P-S15	180	546	519	499	472	1000 x 1300 x 580	700	335
SES-200LY-3P-S15	200	607	577	555	524	1000 x 1300 x 580	750	335

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

TECHNICAL SPECIFICATION

Technology:	Servo Electronic - Variable Transformer controlled, series regulation transformer (buck-boast 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:	Pre-settable for any voltage between 190V/110V, 200V/115V, 208V/120V or 220V/127V - Customer to Specify, Three Phase, 4 Wire (3 Phase + Neutral + G/E) 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:	Any lagging to 0.95 leading
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 NEMA 1 Style (IP20) - BS EN 60529.
Paint Color:	RAL 7032 (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 2004/108/EC (The EMC Directive) and 2006/95/EC (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, Lightning Arrestors, Manual Maintenance Bypass Switch, Ammeter with Phase Selector Switch, No Volt Remote Monitoring Contacts, Digital Power Metering (with RS-485 interface option) & AquaStop Protective Coating - protection against damp and moisture ingress.
Optional Step-Up Voltage Feature:	Ideal for applications where the utility supply voltage is different from the load equipment's requirement - see SES-LH SERIES Step-Up AC Voltage Stabilizers / Regulators.
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-LY SERIES AC Power Line Conditioners.

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

S20 PRODUCT SELECTION TABLE

ALSO available in Indoor NEMA 3 Style / IP54 Enclosures - **OSSES-LY SERIES**

MODEL	Rating kVA	Max Rating @ (Amps per Phase)				Dimensions, Weights & Enclosure Types
		190V	200V	208V	220V	
SES-6LY-3P-S20	6	18	17	16	15	Dimensions, Weights & Enclosure Types available on Request
SES-10LY-3P-S20	10	30	28	27	26	
SES-15LY-3P-S20	15	45	43	41	39	
SES-20LY-3P-S20	20	60	57	55	52	
SES-25LY-3P-S20	25	75	72	69	65	
SES-30LY-3P-S20	30	91	86	83	78	
SES-35LY-3P-S20	35	106	101	97	91	
SES-40LY-3P-S20	40	121	115	111	104	
SES-45LY-3P-S20	45	136	129	124	118	
SES-50LY-3P-S20	50	151	144	138	131	

MODEL	Rating kVA	Max Rating @ (Amps per Phase)				Dimensions, Weights & Enclosure Types
		190V	200V	208V	220V	
SES-55LY-3P-S20	55	167	158	152	144	Dimensions, Weights & Enclosure Types available on Request
SES-60LY-3P-S20	60	182	173	166	157	
SES-75LY-3P-S20	75	227	216	208	196	
SES-80LY-3P-S20	80	243	230	222	209	
SES-90LY-3P-S20	90	273	259	249	236	
SES-100LY-3P-S20	100	303	288	277	262	
SES-120LY-3P-S20	120	364	346	333	314	
SES-150LY-3P-S20	150	456	432	416	393	
SES-180LY-3P-S20	180	546	519	499	472	
SES-200LY-3P-S20	200	607	577	555	524	

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



TECHNICAL SPECIFICATION

Technology:	Servo Electronic - Variable Transformer controlled, series regulation transformer (buck-boast transformer with secondary wired in series with the load).	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.
Input Voltage Swing:	±25% (or -27% +28% or -29% +31%) Three Phase, 4 Wire (with Neutral + Ground / Earth).	Construction:	Enclosures to NEMA 1 Style (IP20) - BS EN 60529.
Output Voltage:	Pre-settable for any voltage between 190V/110V, 200V/115V, 208V/120V or 220V/127V - Customer to Specify, Three Phase, 4 Wire (3 Phase + Neutral + G/E) The permissible input voltage swing is relative to the preset output voltage.	Paint Color:	RAL 7032 (Grey - Epoxy Powder Coating)
Output Voltage Accuracy:	± 0.5%, ± 3% or ± 5 % - auto selection based on input voltage swing.	EMC Conformance:	Complies with BS EN 55022 and the relevant parts of the BS EN 61000 series of standards.
Frequency:	47 - 65Hz	CE Conformity:	CE Marked - being fully compliant with European Union Directives 2004/108/EC (The EMC Directive) and 2006/95/EC (The Low Voltage Directive).
Response Time:	<1.5ms	Standard Warranty:	Three Years / 36 Months from date of supply
Correction Time:	A 10% supply variation will be corrected to within 2.5% in 0.6 seconds.	Standard Features:	Input Circuit Breaker, Over /Low Voltage Protection, Phase Failure Protection, Bypass Control Switch & Voltmeter / Phase Selector Switch (internal).
Efficiency:	98%	Optional Accessories:	Output Circuit Breaker, Lightning Arrestors, Manual Maintenance Bypass Switch, Ammeter with Phase Selector Switch, No Volt Remote Monitoring Contacts, Digital Power Metering (with RS-485 interface option) & AquaStop Protective Coating - protection against damp and moisture ingress.
Power Factor:	Any lagging to 0.95 leading	Optional Step-Up Voltage Feature:	Ideal for applications where the utility supply voltage is different from the load equipment's requirement - see SES-LH SERIES Step-Up AC Voltage Stabilizers / Regulators.
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	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-LY SERIES AC Power Line Conditioners.
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.		

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

S25 PRODUCT SELECTION TABLEALSO available in Indoor NEMA 3 Style / IP54 Enclosures - **OSSES-LY SERIES**

MODEL	Rating kVA	Max Rating @ (Amps per Phase)				Dimensions, Weights & Enclosure Types
		190V	200V	208V	220V	
SES-6LY-3P-S25	6	18	17	16	15	Dimensions, Weights & Enclosure Types available on Request
SES-10LY-3P-S25	10	30	28	27	26	
SES-15LY-3P-S25	15	45	43	41	39	
SES-20LY-3P-S25	20	60	57	55	52	
SES-25LY-3P-S25	25	75	72	69	65	
SES-30LY-3P-S25	30	91	86	83	78	
SES-35LY-3P-S25	35	106	101	97	91	
SES-40LY-3P-S25	40	121	115	111	104	
SES-45LY-3P-S25	45	136	129	124	118	
SES-50LY-3P-S25	50	151	144	138	131	

MODEL	Rating kVA	Max Rating @ (Amps per Phase)				Dimensions, Weights & Enclosure Types
		190V	200V	208V	220V	
SES-55LY-3P-S25	55	167	158	152	144	Dimensions, Weights & Enclosure Types available on Request
SES-60LY-3P-S25	60	182	173	166	157	
SES-75LY-3P-S25	75	227	216	208	196	
SES-80LY-3P-S25	80	243	230	222	209	
SES-90LY-3P-S25	90	273	259	249	236	
SES-100LY-3P-S25	100	303	288	277	262	
SES-120LY-3P-S25	120	364	346	333	314	
SES-150LY-3P-S25	150	456	432	416	393	
SES-180LY-3P-S25	180	546	519	499	472	
SES-200LY-3P-S25	200	607	577	555	524	

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



TECHNICAL SPECIFICATION

Technology:	Servo Electronic - Variable Transformer controlled, series regulation transformer (buck-boast 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:	Pre-settable for any voltage between 190V/110V, 200V/115V, 208V/120V or 220V/127V - Customer to Specify, Three Phase, 4 Wire (3 Phase + Neutral + G/E) 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:	Any lagging to 0.95 leading
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 NEMA 1 Style (IP20) - BS EN 60529.
Paint Color:	RAL 7032 (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 2004/108/EC (The EMC Directive) and 2006/95/EC (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, Lightning Arrestors, Manual Maintenance Bypass Switch, Ammeter with Phase Selector Switch, No Volt Remote Monitoring Contacts, Digital Power Metering (with RS-485 interface option) & AquaStop Protective Coating - protection against damp and moisture ingress.
Optional Step-Up Voltage Feature:	Ideal for applications where the utility supply voltage is different from the load equipment's requirement - see SES-LH SERIES Step-Up AC Voltage Stabilizers / Regulators.
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-LY SERIES AC Power Line Conditioners.

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

S30 PRODUCT SELECTION TABLE

ALSO available in Indoor NEMA 3 Style / IP54 Enclosures - **OSSES-LY SERIES**

MODEL	Rating kVA	Max Rating @ (Amps per Phase)				Dimensions, Weights & Enclosure Types
		190V	200V	208V	220V	
SES-6LY-3P-S30	6	18	17	16	15	Dimensions, Weights & Enclosure Types available on Request
SES-10LY-3P-S30	10	30	28	27	26	
SES-15LY-3P-S30	15	45	43	41	39	
SES-20LY-3P-S30	20	60	57	55	52	
SES-25LY-3P-S30	25	75	72	69	65	
SES-30LY-3P-S30	30	91	86	83	78	
SES-35LY-3P-S30	35	106	101	97	91	
SES-40LY-3P-S30	40	121	115	111	104	
SES-45LY-3P-S30	45	136	129	124	118	
SES-50LY-3P-S30	50	151	144	138	131	

MODEL	Rating kVA	Max Rating @ (Amps per Phase)				Dimensions, Weights & Enclosure Types
		190V	200V	208V	220V	
SES-55LY-3P-S30	55	167	158	152	144	Dimensions, Weights & Enclosure Types available on Request
SES-60LY-3P-S30	60	182	173	166	157	
SES-75LY-3P-S30	75	227	216	208	196	
SES-80LY-3P-S30	80	243	230	222	209	
SES-90LY-3P-S30	90	273	259	249	236	
SES-100LY-3P-S30	100	303	288	277	262	
SES-120LY-3P-S30	120	364	346	333	314	
SES-150LY-3P-S30	150	456	432	416	393	

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



TECHNICAL SPECIFICATION

Technology:	Servo Electronic - Variable Transformer controlled, series regulation transformer (buck-boast transformer with secondary wired in series with the load).	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.
Input Voltage Swing:	±35% (or -37% +38% or -39% +41%) Three Phase, 4 Wire (with Neutral + Ground / Earth).	Construction:	Enclosures to NEMA 1 Style (IP20) - BS EN 60529.
Output Voltage:	Pre-settable for any voltage between 190V/110V, 200V/115V, 208V/120V or 220V/127V - Customer to Specify, Three Phase, 4 Wire (3 Phase + Neutral + G/E) The permissible input voltage swing is relative to the preset output voltage.	Paint Color:	RAL 7032 (Grey - Epoxy Powder Coating)
Output Voltage Accuracy:	± 0.5%, ± 3% or ± 5 % - auto selection based on input voltage swing.	EMC Conformance:	Complies with BS EN 55022 and the relevant parts of the BS EN 61000 series of standards.
Frequency:	47 - 65Hz	CE Conformity:	CE Marked - being fully compliant with European Union Directives 2004/108/EC (The EMC Directive) and 2006/95/EC (The Low Voltage Directive).
Response Time:	<1.5ms	Standard Warranty:	Three Years / 36 Months from date of supply
Correction Time:	A 10% supply variation will be corrected to within 2.5% in 0.6 seconds.	Standard Features:	Input Circuit Breaker, Over /Low Voltage Protection, Phase Failure Protection, Bypass Control Switch & Voltmeter / Phase Selector Switch (internal).
Efficiency:	98%	Optional Accessories:	Output Circuit Breaker, Lightning Arrestors, Manual Maintenance Bypass Switch, Ammeter with Phase Selector Switch, No Volt Remote Monitoring Contacts, Digital Power Metering (with RS-485 interface option) & AquaStop Protective Coating - protection against damp and moisture ingress.
Power Factor:	Any lagging to 0.95 leading	Optional Step-Up Voltage Feature:	Ideal for applications where the utility supply voltage is different from the load equipment's requirement - see SES-LH SERIES Step-Up AC Voltage Stabilizers / Regulators.
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	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-LY SERIES AC Power Line Conditioners.
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.		

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

S35 PRODUCT SELECTION TABLEALSO available in Indoor NEMA 3 Style / IP54 Enclosures - **OSSES-LY SERIES**

MODEL	Rating kVA	Max Rating @ (Amps per Phase)				Dimensions, Weights & Enclosure Types
		190V	200V	208V	220V	
SES-6LY-3P-S35	6	18	17	16	15	Dimensions, Weights & Enclosure Types available on Request
SES-10LY-3P-S35	10	30	28	27	26	
SES-15LY-3P-S35	15	45	43	41	39	
SES-20LY-3P-S35	20	60	57	55	52	
SES-25LY-3P-S35	25	75	72	69	65	
SES-30LY-3P-S35	30	91	86	83	78	
SES-35LY-3P-S35	35	106	101	97	91	
SES-40LY-3P-S35	40	121	115	111	104	
SES-45LY-3P-S35	45	136	129	124	118	
SES-50LY-3P-S35	50	151	144	138	131	

MODEL	Rating kVA	Max Rating @ (Amps per Phase)				Dimensions, Weights & Enclosure Types
		190V	200V	208V	220V	
SES-55LY-3P-S35	55	167	158	152	144	Dimensions, Weights & Enclosure Types available on Request
SES-60LY-3P-S35	60	182	173	166	157	
SES-75LY-3P-S35	75	227	216	208	196	
SES-80LY-3P-S35	80	243	230	222	209	
SES-90LY-3P-S35	90	273	259	249	236	
SES-100LY-3P-S35	100	303	288	277	262	
SES-120LY-3P-S35	120	364	346	333	314	

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



TECHNICAL SPECIFICATION

Technology:	Servo Electronic - Variable Transformer controlled, series regulation transformer (buck-boast transformer with secondary wired in series with the load).
Input Voltage Swing:	±40% (or -42% +43% or -44% +46%) Three Phase, 4 Wire (with Neutral + Ground / Earth).
Output Voltage:	Pre-settable for any voltage between 190V/110V, 200V/115V, 208V/120V or 220V/127V - Customer to Specify, Three Phase, 4 Wire (3 Phase + Neutral + G/E) 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:	Any lagging to 0.95 leading
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 NEMA 1 Style (IP20) - BS EN 60529.
Paint Color:	RAL 7032 (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 2004/108/EC (The EMC Directive) and 2006/95/EC (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, Lightning Arrestors, Manual Maintenance Bypass Switch, Ammeter with Phase Selector Switch, No Volt Remote Monitoring Contacts, Digital Power Metering (with RS-485 interface option) & AquaStop Protective Coating - protection against damp and moisture ingress.
Optional Step-Up Voltage Feature:	Ideal for applications where the utility supply voltage is different from the load equipment's requirement - see SES-LH SERIES Step-Up AC Voltage Stabilizers / Regulators.
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-LY SERIES AC Power Line Conditioners.

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

S40 PRODUCT SELECTION TABLE

ALSO available in Indoor NEMA 3 Style / IP54 Enclosures - **OSSES-LY SERIES**

MODEL	Rating kVA	Max Rating @ (Amps per Phase)				Dimensions, Weights & Enclosure Types
		190V	200V	208V	220V	
SES-6LY-3P-S40	6	18	17	16	15	Dimensions, Weights & Enclosure Types available on Request
SES-10LY-3P-S40	10	30	28	27	26	
SES-15LY-3P-S40	15	45	43	41	39	
SES-20LY-3P-S40	20	60	57	55	52	
SES-25LY-3P-S40	25	75	72	69	65	
SES-30LY-3P-S40	30	91	86	83	78	
SES-35LY-3P-S40	35	106	101	97	91	
SES-40LY-3P-S40	40	121	115	111	104	
SES-45LY-3P-S40	45	136	129	124	118	
SES-50LY-3P-S40	50	151	144	138	131	

MODEL	Rating kVA	Max Rating @ (Amps per Phase)				Dimensions, Weights & Enclosure Types
		190V	200V	208V	220V	
SES-55LY-3P-S40	55	167	158	152	144	Dimensions, Weights & Enclosure Types available on Request
SES-60LY-3P-S40	60	182	173	166	157	
SES-75LY-3P-S40	75	227	216	208	196	
SES-80LY-3P-S40	80	243	230	222	209	
SES-90LY-3P-S40	90	273	259	249	236	
SES-100LY-3P-S40	100	303	288	277	262	
SES-120LY-3P-S40	120	364	346	333	314	

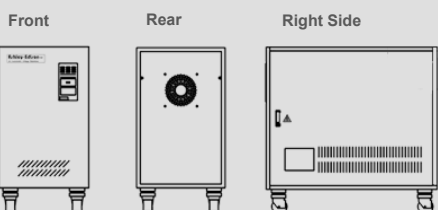
Note: Higher kVA and alternative voltage options available to order / individual request.



ENCLOSURE TYPES

331 & 332 Enclosures

On Castors

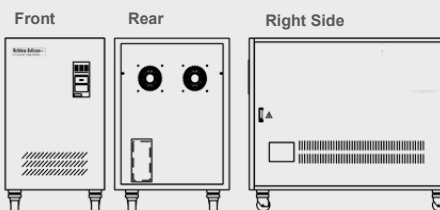


Physical Size:

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

333 & 334 Enclosures

On Castors

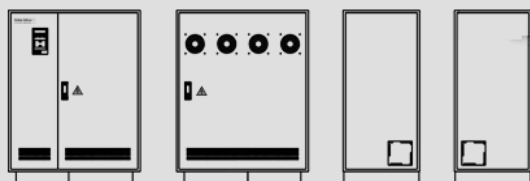


Physical Size:

333	19.3"(W) x 31.5"(H) x 39.0"(D) inches	490(W) x 800(H) x 990(D) mm
334	21.3"(W) x 35.5"(H) x 39.4"(D) inches	540(W) x 900(H) x 1000(D) mm

335 Enclosure

Front Rear Left Side Right Side

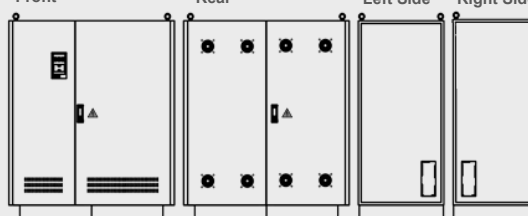


Physical Size:

335	39.4"(W) x 51.2"(H) x 22.9"(D) inches	1000(W) x 1300(H) x 580(D) mm
------------	---------------------------------------	-------------------------------

336, 337 & 338 Enclosures

Front Rear Left Side Right Side



Physical Size:

336	50.4"(W) x 58.3"(H) x 26.0"(D) inches	1280(W) x 1480(H) x 660(D) mm
337	50.4"(W) x 76.8"(H) x 32.3"(D) inches	1280(W) x 1950(H) x 820(D) mm
338	50.4"(W) x 76.8"(H) x 47.3"(D) inches	1280(W) x 1950(H) x 1200(D) mm

TYPICAL APPLICATIONS

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

AVAILABILITY

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

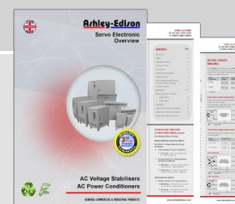
Many of our most popular ratings are readily available from stock at the factory or from one of our strategically located Service and Distribution Hubs. Where a solution is not readily available, due to our considerable investment in component inventory and fine-tuned accredited build processes, we are 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 / Stabilizers and Power Conditioners?

Please ask for a copy of our

Servo Electronic Overview Brochure



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.

Copyright 2013 © Ashley-Edison (UK) reserve the right to change any or all the specifications indicated or implied without prior notice. E&EO.

