

SES L-2P SERIES - SPLIT SINGLE / TWO PHASE - 3 to 60 kVA**COST EFFICIENT VOLTAGE STABILIZATION**

& Power Protection for US style Single Phase / Split Output Electricity Distribution Systems commonly found in Residential & Light Commercial Buildings.

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**
Split Single Phase 3 to 60 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 $\pm 1\%$



SERVO ELECTRONIC DESIGN AC VOLTAGE STABILIZERS & REGULATORS

AC SPLIT SINGLE PHASE / 3 WIRE - 3 TO 60 kVA

240V/120V - 230V/115V - 220V/110V

SES

SPLIT SINGLE 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.

- **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

- **Soft - Switch On / Load Protection**

Protection of the load from momentary over voltage situations on start-up

- **Bypass Control Switch**

Manual Electronic Controls Bypass Facility

- **Input Circuit Breaker**

Standard protection on all models

- **Optional Accessories**

Output Circuit Breaker, Full Manual Maintenance Bypass Switch, Over / Low Voltage Protection, No-Volt Remote Monitoring Contacts, Multifunctional Digital Power Metering (with RS-485 interface option), AquaStop Coating (protection against damp and moisture ingress) & Lightning Arrestors

- **Compliance with International Standards**

Designed, manufactured and supplied to comply with leading international standards

- **CE Conformity**

Fully compliant and labelled

- **Warranty**

3 Years / 36 Months as standard

VOLTAGE CHOICES AVAILABLE

SPLIT SINGLE / TWO PHASE SOLUTIONS DELIVERING TWO HOT LEGS & A GROUNDED NEUTRAL

L-2P SERIES

Low Voltage Models:

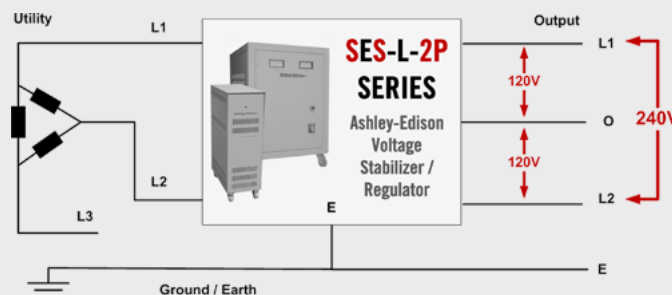
240V/120V, 230V/115V or 220V/110V.

3 to 60 kVA

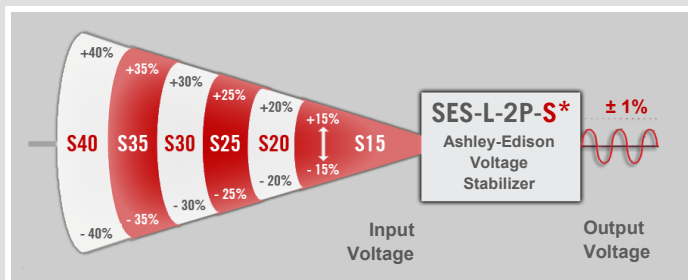
Other voltages available on individual request / quotation.



NOTE: A Split Single Phase electricity distribution system is commonly used in North America in Residential and Light Commercial Buildings. This type of system is also sometimes referred to as a 3 Wire Single Phase Distribution System.



L-2P 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.



L-2P SERIES - SES-L-2P-S* Input Voltage Windows & Output Accuracy

Nominal Single Phase Voltage	Output Voltage Accuracy \pm % of Nominal	INPUT VOLTAGE SWINGS / SWING MODEL NO VARIANTS					
		S15	S20	S25	S30	S35	S40
		3 to 60 kVA	5 to 50 kVA	5 to 40 kVA	5 to 30 kVA	5 to 20 kVA	5 to 20 kVA
240V	$\pm 1\%$	204v to 276v ($\pm 15\%$)	192v to 288v ($\pm 20\%$)	180v to 300v ($\pm 25\%$)	168v to 312v ($\pm 30\%$)	156v to 324v ($\pm 35\%$)	144v to 336v ($\pm 40\%$)
	$\pm 3\%$	199v to 283v (-17% / +18%)	187v to 295v (-22% / +23%)	175v to 307v (-27% / +28%)	163v to 319v (-32% / +33%)	151v to 331v (-37% / +38%)	139v to 343v (-42% / +43%)
	$\pm 5\%$	194v to 290v (-19% / +21%)	182v to 302v (-24% / +26%)	170v to 314v (-29% / +31%)	158v to 326v (-34% / +36%)	146v to 338v (-39% / +41%)	134v to 350v (-44% / +46%)
230V	$\pm 1\%$	196v to 264v ($\pm 15\%$)	184v to 276v ($\pm 20\%$)	173v to 287v ($\pm 25\%$)	161v to 299v ($\pm 30\%$)	150v to 310v ($\pm 35\%$)	138v to 322v ($\pm 40\%$)
	$\pm 3\%$	191v to 271v (-17% / +18%)	179v to 283v (-22% / +23%)	168v to 294v (-27% / +28%)	156v to 306v (-32% / +33%)	145v to 317v (-37% / +38%)	133v to 329v (-42% / +43%)
	$\pm 5\%$	186v to 278v (-19% / +21%)	175v to 290v (-24% / +26%)	163v to 302v (-29% / +31%)	152v to 313v (-34% / +36%)	140v to 324v (-39% / +41%)	129v to 336v (-44% / +46%)
220V	$\pm 1\%$	187v to 253v ($\pm 15\%$)	176v to 264v ($\pm 20\%$)	165v to 275v ($\pm 25\%$)	154v to 286v ($\pm 30\%$)	143v to 297v ($\pm 35\%$)	132v to 308v ($\pm 40\%$)
	$\pm 3\%$	183v to 260v (-17% / +18%)	172v to 271v (-22% / +23%)	161v to 282v (-27% / +28%)	150v to 293v (-32% / +33%)	139v to 304v (-37% / +38%)	128v to 315v (-42% / +43%)
	$\pm 5\%$	178v to 266v (-19% / +21%)	167v to 277v (-24% / +26%)	156v to 288v (-29% / +31%)	145v to 299v (-34% / +36%)	134v to 310v (-39% / +41%)	123v to 321v (-44% / +46%)

TECHNICAL SPECIFICATION

Technology:	Servo Electronic - Variable Transformer controlled, series regulation transformer (buck-boast transformer with secondary wired in series with the load).																												
Input Voltage:	240V, 230V, 220V Two Phase (Line to Line) - Customer to Specify - 2 Wire + Earth / Ground.																												
Input Voltage Swing Variant Options Available: (S*)	<table border="1"> <thead> <tr> <th>Model / Accuracy</th> <th>± 1%</th> <th>± 3%</th> <th>± 5%</th> </tr> </thead> <tbody> <tr> <td>S15</td> <td>± 15%</td> <td>-17% +18%</td> <td>-19% +21%</td> </tr> <tr> <td>S20</td> <td>± 20%</td> <td>-22% +23%</td> <td>-24% +26%</td> </tr> <tr> <td>S25</td> <td>± 25%</td> <td>-27% +28%</td> <td>-29% +31%</td> </tr> <tr> <td>S30</td> <td>± 30%</td> <td>-32% +33%</td> <td>-34% +36%</td> </tr> <tr> <td>S35</td> <td>± 35%</td> <td>-32% +33%</td> <td>-34% +36%</td> </tr> <tr> <td>S40</td> <td>± 40%</td> <td>-42% +43%</td> <td>-44% +46%</td> </tr> </tbody> </table>	Model / Accuracy	± 1%	± 3%	± 5%	S15	± 15%	-17% +18%	-19% +21%	S20	± 20%	-22% +23%	-24% +26%	S25	± 25%	-27% +28%	-29% +31%	S30	± 30%	-32% +33%	-34% +36%	S35	± 35%	-32% +33%	-34% +36%	S40	± 40%	-42% +43%	-44% +46%
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Output Voltage:	Presetable for any voltage between 240V/120V, 230V/115V or 220V/110V (Line to Line / Line to CT-Centre Tap) - Customer to specify. The permissible input voltage swing is relative to the preset output voltage.																												
Output Voltage Accuracy:	± 1%, ± 3% or ± 5% - <i>auto selection based on input voltage swing.</i>																												
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%																												

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:	<p>016AE Style Enclosures Input Circuit Breaker Input / Output Terminals Bypass Control Switch Free Standing Enclosure</p> <p>103 to 106 Style Enclosures Input Circuit Breaker Input / Output Terminals Output Voltmeter and Ammeter Bypass Control Switch Free Standing Enclosure on Castors</p>
Optional Accessories:	Over / Low Voltage Protection, Voltmeter & Ammeter (016AE Enclosure), Manual Maintenance Bypass Switch, Lightning Surge Arrestor, Digital Power Metering - showing V,A,W,VA,AER,PF & kWh and AquaStop Protective Coating - offering protection against damp and moisture ingress

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

PRODUCT SELECTION TABLEALSO available in Outdoor NEMA 3 Style / IP54 Enclosures - **0SES** SERIES

Model	Rating kVA	Amps @ 240V/120V		Amps @ 230V/115V		Amps @ 220V/110V		Dimensions & Weights
		240V (L-L)	120V (L-CT)	230V (L-L)	115V (L-CT)	220V (L-L)	110V (L-CT)	
SES-3L-2P-S*	3	12.5	2 x 12.5	13	2 x 13	13.6	2 x 13.6	Dimensions & Weights available on Request - according to the S* Swing Model Variant required.
SES-5L-2P-S*	5	20	2 x 20	21	2 x 21	22	2 x 22	
SES-8L-2P-S*	8	33	2 x 33	34	2 x 34	36	2 x 36	
SES-10L-2P-S*	10	41	2 x 41	43	2 x 43	45	2 x 45	
SES-15L-2P-S*	15	62	2 x 62	65	2 x 65	68	2 x 68	
SES-20L-2P-S*	20	83	2 x 83	87	2 x 87	90	2 x 90	
SES-30L-2P-S*	30	125	2 x 125	130	2 x 130	136	2 x 136	
SES-40L-2P-S*	40	166	2 x 166	173	2 x 173	181	2 x 181	
SES-50L-2P-S*	50	208	2 x 208	217	2 x 217	227	2 x 227	
SES-60L-2P-S*	60	250	2 x 250	260	2 x 260	272	2 x 272	

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

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TECHNICAL SPECIFICATION

Technology:	Servo Electronic - Variable Transformer controlled, series regulation transformer (buck-boast transformer with secondary wired in series with the load).
Input Voltage:	240V, 230V or 220V Two Phase (Line to Line) - Customer to Specify - 2 Wire + Earth / Ground.
Input Voltage Swing:	±15% (or -17% +18% or -19% +21%)
Output Voltage:	Presettable for any voltage between 240V/120V, 230V/115V or 220V/110V (Line to Line / Line to CT-Centre Tap) - Customer to Specify. The permissible input voltage swing is relative to the preset output voltage.
Output Voltage Accuracy:	± 1%, ± 3% or ± 5 % - <i>auto selection based on input voltage swing.</i>
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%
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:	SES-5L-2P to 10L-2P-S15 Input Circuit Breaker Input / Output Terminals Bypass Control Switch Free Standing Enclosure SES-15L-2P to 100L-2P-S15 Input Circuit Breaker Input / Output Terminals Output Voltmeter and Ammeter Bypass Control Switch Free Standing Enclosure on Castors
Optional Accessories:	Over / Low Voltage Protection, Voltmeter & Ammeter (016AE Enclosure), Manual Maintenance Bypass Switch, Lightning Surge Arrestor, Digital Power Metering - showing V,A,W,VA,AER,PF & kWh and AquaStop Protective Coating - offering protection against damp and moisture ingress

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

S15 PRODUCT SELECTION TABLEALSO available in Outdoor NEMA 3 Style / IP54 Enclosures - **0SES** SERIES

Model	Rating kVA	Amps @ 240V/120V		Amps @ 230V/115V		Amps @ 220V/110V		Dimensions (mm) W x H x D	Weight Kg	Enclosure Type No.
		240V (L-L)	120V (L-CT)	230V (L-L)	115V (L-CT)	220V (L-L)	110V (L-CT)			
SES-3L-2P-S15	3	12.5	2 x 12.5	13	2 x 13	13.6	2 x 13.6	210 x 630 x 420	61	016AE
SES-5L-2P-S15	5	20	2 x 20	21	2 x 21	22	2 x 22	210 x 630 x 420	63	016AE
SES-8L-2P-S15	8	33	2 x 33	34	2 x 34	36	2 x 36	210 x 630 x 420	85	016AE
SES-10L-2P-S15	10	41	2 x 41	43	2 x 43	45	2 x 45	210 x 630 x 420	86	016AE
SES-15L-2P-S15	15	62	2 x 62	65	2 x 65	68	2 x 68	400 x 580 x 500	123	103
SES-20L-2P-S15	20	83	2 x 83	87	2 x 87	90	2 x 90	500 x 700 x 600	167	104A
SES-30L-2P-S15	30	125	2 x 125	130	2 x 130	136	2 x 136	500 x 900 x 600	245	104
SES-40L-2P-S15	40	166	2 x 166	173	2 x 173	181	2 x 181	600 x 1170 x 700	290	105
SES-50L-2P-S15	50	208	2 x 208	217	2 x 217	227	2 x 227	600 x 1170 x 700	370	105
SES-60L-2P-S15	60	250	2 x 250	260	2 x 260	272	2 x 272	700 x 1400 x 800	500	106

Note Alternative voltage options available to order / individual request.

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TECHNICAL SPECIFICATION

Technology:	Servo Electronic - Variable Transformer controlled, series regulation transformer (buck-boast transformer with secondary wired in series with the load).
Input Voltage:	240V, 230V or 220V Two Phase (Line to Line) - Customer to Specify - 2 Wire + Earth / Ground.
Input Voltage Swing:	±20% (or -22% +23% or -24% +26%)
Output Voltage:	Presettable for any voltage between 240V/120V, 230V/115V or 220V/110V (Line to Line / Line to CT-Centre Tap) - Customer to Specify. The permissible input voltage swing is relative to the preset output voltage.
Output Voltage Accuracy:	± 1%, ± 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%
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:	SES-5L-2P Input Circuit Breaker Input / Output Terminals Bypass Control Switch Free Standing Enclosure SES-8L-2P to 50L-2P-S15 Input Circuit Breaker Input / Output Terminals Output Voltmeter and Ammeter Bypass Control Switch Free Standing Enclosure on Castors
Optional Accessories:	Over / Low Voltage Protection, Voltmeter & Ammeter (016AE Enclosure), Manual Maintenance Bypass Switch, Lightning Surge Arrestor, Digital Power Metering - showing V,A,W,VA,AER,PF & kWh and AquaStop Protective Coating - offering protection against damp and moisture ingress

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

S20 PRODUCT SELECTION TABLEALSO available in Outdoor NEMA 3 Style / IP54 Enclosures - **0SES** SERIES

Model	Rating kVA	Amps @ 240V/120V		Amps @ 230V/115V		Amps @ 220V/110V		Dimensions (mm) W x H x D	Weight Kg	Enclosure Type No.
		240V (L-L)	120V (L-CT)	230V (L-L)	115V (L-CT)	220V (L-L)	110V (L-CT)			
SES-5L-2P-S20	5	20	2 x 20	21	2 x 21	22	2 x 22	210 x 630 x 420	90	016AE
SES-8L-2P-S20	8	33	2 x 33	34	2 x 34	36	2 x 36	400 x 580 x 500	115	103
SES-10L-2P-S20	10	41	2 x 41	43	2 x 43	45	2 x 45	400 x 580 x 500	116	103
SES-15L-2P-S20	15	62	2 x 62	65	2 x 65	68	2 x 68	400 x 580 x 500	140	103
SES-20L-2P-S20	20	83	2 x 83	87	2 x 87	90	2 x 90	500 x 700 x 600	190	104A
SES-30L-2P-S20	30	125	2 x 125	130	2 x 130	136	2 x 136	600 x 1170 x 700	250	105
SES-40L-2P-S20	40	166	2 x 166	173	2 x 173	181	2 x 181	600 x 1170 x 700	350	105
SES-50L-2P-S20	50	208	2 x 208	217	2 x 217	227	2 x 227	700 x 1400 x 800	450	106

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

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TECHNICAL SPECIFICATION

Technology:	Servo Electronic - Variable Transformer controlled, series regulation transformer (buck-boast transformer with secondary wired in series with the load).
Input Voltage:	240V, 230V or 220V Two Phase (Line to Line) - Customer to Specify - 2 Wire + Earth / Ground.
Input Voltage Swing:	±25% (or -27% +28% or -29% +31%)
Output Voltage:	Pre-settable for any voltage between 240V/120V, 230V/115V or 220V/110V (Line to Line / Line to CT-Centre Tap) - Customer to Specify. The permissible input voltage swing is relative to the preset output voltage.
Output Voltage Accuracy:	± 1%, ± 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%
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:	016AE Style Enclosures Input Circuit Breaker Input / Output Terminals Bypass Control Switch Free Standing Enclosure 103 to 106 Style Enclosures Input Circuit Breaker Input / Output Terminals Output Voltmeter and Ammeter Bypass Control Switch Free Standing Enclosure on Castors
Optional Accessories:	Over / Low Voltage Protection, Voltmeter & Ammeter (016AE Enclosure), Manual Maintenance Bypass Switch, Lightning Surge Arrestor, Digital Power Metering - showing V,A,W,VA,AER,PF & kWh and AquaStop Protective Coating - offering protection against damp and moisture ingress

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

S25 PRODUCT SELECTION TABLEALSO available in Outdoor NEMA 3 Style / IP54 Enclosures - **0SES** SERIES

Model	Rating kVA	Amps @ 240V/120V		Amps @ 230V/115V		Amps @ 220V/110V		Dimensions & Weights
		240V (L-L)	120V (L-CT)	230V (L-L)	115V (L-CT)	220V (L-L)	110V (L-CT)	
SES-5L-2P-S25	5	20	2 x 20	21	2 x 21	22	2 x 22	Dimensions & Weights available on Request
SES-8L-2P-S25	8	33	2 x 33	34	2 x 34	36	2 x 36	
SES-10L-2P-S25	10	41	2 x 41	43	2 x 43	45	2 x 45	
SES-15L-2P-S25	15	62	2 x 62	65	2 x 65	68	2 x 68	
SES-20L-2P-S25	20	83	2 x 83	87	2 x 87	90	2 x 90	
SES-30L-2P-S25	30	125	2 x 125	130	2 x 130	136	2 x 136	
SES-40L-2P-S25	40	166	2 x 166	173	2 x 173	181	2 x 181	

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

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TECHNICAL SPECIFICATION

Technology:	Servo Electronic - Variable Transformer controlled, series regulation transformer (buck-boast transformer with secondary wired in series with the load).
Input Voltage:	240V, 230V or 220V Two Phase (Line to Line) - Customer to Specify - 2 Wire + Earth / Ground.
Input Voltage Swing:	±30% (or -32% +33% or -34% +36%)
Output Voltage:	Pre-settable for any voltage between 240V/120V, 230V/115V or 220V/110V (Line to Line / Line to CT-Centre Tap) - Customer to Specify. The permissible input voltage swing is relative to the preset output voltage.
Output Voltage Accuracy:	± 1%, ± 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%
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:	016AE Style Enclosures Input Circuit Breaker Input / Output Terminals Bypass Control Switch Free Standing Enclosure 103 to 106 Style Enclosures Input Circuit Breaker Input / Output Terminals Output Voltmeter and Ammeter Bypass Control Switch Free Standing Enclosure on Castors
Optional Accessories:	Over / Low Voltage Protection, Voltmeter & Ammeter (016AE Enclosure), Manual Maintenance Bypass Switch, Lightning Surge Arrester, Digital Power Metering - showing V,A,W,VA,AER,PF & kWh and AquaStop Protective Coating - offering protection against damp and moisture ingress

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

S30 PRODUCT SELECTION TABLEALSO available in Outdoor NEMA 3 Style / IP54 Enclosures - **0SES** SERIES

Model	Rating kVA	Amps @ 240V/120V		Amps @ 230V/115V		Amps @ 220V/110V		Dimensions & Weights
		240V (L-L)	120V (L-CT)	230V (L-L)	115V (L-CT)	220V (L-L)	110V (L-CT)	
SES-5L-2P-S30	5	20	2 x 20	21	2 x 21	22	2 x 22	Dimensions & Weights available on Request
SES-8L-2P-S30	8	33	2 x 33	34	2 x 34	36	2 x 36	
SES-10L-2P-S30	10	41	2 x 41	43	2 x 43	45	2 x 45	
SES-15L-2P-S30	15	62	2 x 62	65	2 x 65	68	2 x 68	
SES-20L-2P-S30	20	83	2 x 83	87	2 x 87	90	2 x 90	
SES-30L-2P-S30	30	125	2 x 125	130	2 x 130	136	2 x 136	

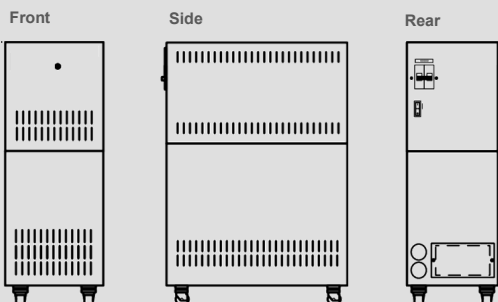
Note Alternative voltage options available to order / individual request.

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ENCLOSURE TYPES

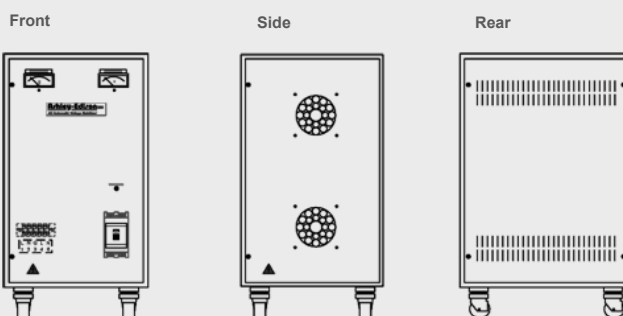
016AE



Physical Size: 8.3"(W) x 24.9"(H) x 16.6"(D) inches
210(W) x 630(H) x 420(D) mm

Features: Input Circuit Breaker, Input / Output Terminals, Bypass Control Switch & Free Standing Enclosure on Castors

103 -106



Features: Input Circuit Breaker, Input / Output Terminals, Output Voltmeter and Ammeter, Bypass Control Switch & Free Standing Enclosure on Castors

Enclosure	Physical Size:
103	15.8"(W) x 22.9"(H) x 19.7"(D) inches 400(W) x 580(H) x 500(D) mm
104A	19.7"(W) x 27.6"(H) x 23.7"(D) inches 500(W) x 700(H) x 600(D) mm

Enclosure	Physical Size:
105	23.7"(W) x 46.1"(H) x 27.6"(D) inches 600(W) x 1170(H) x 700(D) mm
106	27.6"(W) x 55.2"(H) x 31.5"(D) inches 700(W) x 1400(H) x 800(D) mm

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
- Photo Processing Systems

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.

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