

## Outdoor AC Automatic Voltage Stabilizers & Regulators

### Cost Efficient Voltage Stabilization Solutions with Fast Speed of Response and High Output Voltage Accuracy

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.

Ashley-Edison, utilizing an **Advanced Digital Controller** for our Electromechanical / Electronic Servo **OSES Series** Outdoor AC Automatic Voltage Stabilizers, are designed to ensure that, should the incoming mains voltage drift high or low, the output voltage remain continuously constant. Characterized by high efficiency, they are completely unaffected by Power Factor, Load and Frequency variations. They are capable of withstanding high instantaneous overloads and do not generate any magnetic interference. Compact in size, quiet in operation, these Voltage Stabilizers are suitable for outdoor use and may be located near to sensitive equipment.

Our Voltage Stabilizers are equipped with **Bypass Control Switches**. These switches can be activated when required.

**Soft Switch-ON** feature will ensure that the Voltage Stabilizer is at its minimum upon switch-on before it commence full stabilization. Lack of this feature may cause high output voltage surge in stabilizer.

**OSES SERIES  
THREE PHASE  
6KVA ~ 500KVA  
(Low Voltage)  
208V/120V 3P4W  
208V 3P3W**



### Utilizing Advanced Digital Controller



#### Models:

#### Low Voltage

**(LY) Models**  
200/115V; 208/120V or 220/127V  
(Three Phase) (Wye)

**(LD) Models**  
200V; 208V or 220V  
(Three Phase) (Delta)

#### High Voltage

**(H) Models**  
380/220V; 400/230V or 415/240V  
(Three Phase)

#### Features:

- **Wide Range of Voltage Stabiliser**  
*Three Phase Up to 500KVA*
- **Input Swing Range**  
*Input Swing Range Available from ±15%, ±20%, ±25%(To Specify)*
- **Output Voltage Regulation**  
*(LY) Output Voltage Accuracy ± 0.5%*  
*(LD) Output Voltage Accuracy ± 1%*
- **High Efficiency**  
*Better than 98%*
- **Independent Phase Control Circuit**  
*Sensing on all Three Individual Phases*
- **Soft Switch-ON**  
*Ensure that the Voltage Stabilizer is at its minimum before it commences full stabilization*
- **Standard Protection Features**  
*Input circuit breaker*  
*Over/low voltage protection*  
*Phase-failure protection*  
*Bypass control switch*  
*Voltmeter / Selector switch*

- **Optional Accessories**  
*Output circuit breaker*  
*Ammeter / Selector switch*  
*Frequency meter*  
*Lightning Arrestor*  
*Manual maintenance bypass switch*  
*Heater / Thermostat for low temperature applications*
- **Compliance with International Standards**  
*BS EN50081-1;2/IEC 61000-4-3;4*  
*BS EN5490/IEC 60529*
- **CE Conformity**  
*EN55022, EN50082-2, ENV50140-1*
- **Warranty**  
*2 Years / 24 Months*

#### Applications

- **Communication Systems**
- **Computer Systems**
- **TV/Radio Broadcasting Stations**
- **Security Systems**
- **Communication Stations**
- **Lighting Systems**
- **Golf Course Lighting Systems**
- **Perimeter Lighting**



## Outdoor AC Automatic Voltage Stabilizers & Regulators

### Technical Specifications

<b>Input Swing Range</b> (To Specify)	3 Phase 4 Wire (3P+N) (Wye) ±15%(S15*), ±20%(S20*), ±25%(S25*),	<b>Independent Phase Control</b>	Maintain each phase voltage stable irrespective of load unbalance, even up to 100% load unbalance
<b>Output Voltage</b>	Presetable for any voltage between 200/115V; 208/120V or 220/127V 3 Phase 4 Wire (3P+N) (Wye)	<b>Soft Switch-ON</b>	Ensure that the output voltage is at its minimum upon Switch-On before it commence full stabilization
<b>Output Voltage Accuracy</b>	± 0.5%	<b>Environment</b>	Temperature range -15 to 50 °C. Derate by 2% for each additional °C Up to max 65 °C . Suitable for indoor tropical use 95% RH (non-condensing). Maximum altitude 1000m.Derate by 2.5% for each additional 500m
<b>Frequency</b>	47 – 65 Hz	<b>Standard Features</b>	Input circuit breaker Over/Low voltage protection Phase failure protection Bypass control switch Voltmeter/selector switch
<b>Response Time</b>	<1.5ms	<b>Construction</b>	Enclosures to IP54, BS EN5490 / IEC 60529
<b>Correction Time</b>	A 10% supply variation will be corrected to within 2.5% in 0.6 seconds	<b>EMC Conformance</b>	BS EN50081-1;2 / IEC 61000-4-3;4
<b>Efficiency</b>	98%	<b>CE Conformity</b>	EN55022, EN50082-2,ENV50140-1
<b>Power Factor</b>	Any lagging to 0.95 leading	<b>Optional Accessories</b>	Output circuit breaker Ammeter/selector switch Frequency meter Lightning arrestor Manual maintenance bypass switch Heater / thermostat for low temperature applications
<b>Surge ratings</b>	10 x max current rating for 2 seconds 3 x max current rating for 1 minutes 2 x max current rating for 5 minutes		
<b>Surge Suppression</b>	Protect loads against high-energy spikes and transient voltage.		
<b>Total Harmonic Distortion</b>	<1%		

Note: Optional accessories added may affect dimension, subject to confirmation.

- Note: 1) 380 to 415V 3 Phase 4Wire options available on order  
2) Special voltage configurations available on order  
3) Higher KVA rating options available on order



Utilizing Advanced Digital Controller

### Three Phase Model: OSES-LY-3P-S\* (Low Voltage)

Model:	Rating KVA	Amps @ 200V	Amps @ 208V	Amps @ 220V	Dimensions (mm) W x H x D	Weight (Kgs)
OSES 6LY-3P-S*	6	17	16.7	15.7	Dimensions and Weight upon request	
OSES 10LY-3P-S*	10	28.8	26.	26		
OSES 15LY-3P-S*	15	43.3	41.6	39		
OSES 20LY-3P-S	20	58	56	53		
OSES 30LY-3P-S*	30	87	83	79		
OSES 45LY-3P-S*	45	130	125	118		
OSES 60LY-3P-S*	60	173	167	157		
OSES 75LY-3P-S*	75	217	208	197		
OSES 100LY-3P-S*	100	289	278	262		
OSES 120LY-3P-S*	120	346	333	315		
OSES 150LY-3P-S*	150	433	416	394		
OSES 180LY-3P-S*	180	520	500	472		
OSES 200LY-3P-S*	200	577	555	523		
OSES 250LY-3P-S*	250	722	694	656		
OSES 300LY-3P-S*	300	866	833	787		
OSES 400LY-3P-S*	400	1155	1110	1050		
OSES 500LY-3P-S*	500	1443	1388	1312		

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## Outdoor AC Automatic Voltage Stabilizers & Regulators

### Technical Specifications

<b>Input Swing Range</b> (To Specify)	3 Phase 3 Wire (3P3W) (Delta) ±15%(S15*), ±20%(S20*), ±25%(S25*),
<b>Output Voltage</b>	Pre-settable for any voltage between 200V; 208V or 220V 3 Phase 3 Wire (3P3W) (Delta)
<b>Output Voltage Accuracy</b>	±1%
<b>Frequency</b>	47 – 65 Hz
<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 minutes 2 x max current rating for 5 minutes
<b>Surge Suppression</b>	Protect loads against high-energy spikes and transient voltage.
<b>Total Harmonic Distortion</b>	<1%

<b>Independent Phase Control</b>	Maintain each phase voltage stable irrespective of load unbalance, even up to 100% load unbalance
<b>Soft Switch-ON</b>	Ensure that the output voltage is at its minimum upon Switch-On before it commence full stabilization
<b>Environment</b>	Temperature range –15 to 50 °C. Derate by 2% for each additional °C Up to max 65 °C . Suitable for indoor tropical use 95% RH (non-condensing). Maximum altitude 1000m. Derate by 2.5% for each additional 500m
<b>Standard Features</b>	Input circuit breaker Over/Low voltage protection Phase failure protection Bypass control switch Voltmeter/selector switch
<b>Construction</b>	Enclosures to IP54, BS EN5490 / IEC 60529
<b>EMC Conformance</b>	BS EN50081-1;2 / IEC 61000-4-3;4
<b>CE Conformity</b>	EN55022, EN50082-2, ENV50140-1
<b>Optional Accessories</b>	Output circuit breaker Ammeter/selector switch Frequency meter Lightning arrester Manual maintenance bypass switch Heater / thermostat for low temperature applications

Note: Optional accessories added may affect dimension, subject to confirmation.

Note: 1) 380 to 415V 3 Phase 4Wire options available on order  
2) Special voltage configurations available on order  
3) Higher KVA rating options available on order



Utilizing Advanced Digital Controller

### Three Phase Model: OSES-LD-3P-S\* (Low Voltage)

Model:	Rating KVA	Amps @ 200V	Amps @ 208V	Amps @ 220V	Dimensions (mm) W x H x D	Weight (Kgs)
OSES 6LD-3P-S*	6	17	16.7	15.7	Dimensions and Weight upon request	
OSES 10LD-3P-S*	10	28.8	26	26		
OSES 15LD-3P-S*	15	43.3	41.6	39		
OSES 20LD-3P-S	20	58	56	53		
OSES 30LD-3P-S*	30	87	83	79		
OSES 45LD-3P-S*	45	130	125	118		
OSES 60LD-3P-S*	60	173	167	157		
OSES 75LD-3P-S*	75	217	208	197		
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