

## Outdoor AC Automatic Voltage Stabilisers & Regulators

### Cost Efficient Voltage Stabilisation 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 Stabilisers, are designed to ensure that, should the incoming mains voltage drift high or low, the output voltage remain continuously constant. Characterised 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 Stabilisers are suitable for indoor use and may be located near to sensitive equipment.

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

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

## OSES SERIES THREE PHASE 6KVA ~ 500KVA



### Utilizing Advanced Digital Controller



#### Models:

##### High Voltage (H) Models

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

##### Low Voltage (L) Models

200/115V; 208/120V or 220/127V  
(Three Phase)

#### Features:

- **Wide Range of Voltage Stabiliser**  
Three Phase Up to 500KVA
- **Input Swing Range**  
Input Swing Range Available from  $\pm 15\%$ ,  $\pm 20\%$ ,  $\pm 25\%$ ,  $\pm 30\%$ ,  $\pm 35\%$ ,  
(To Specify)
- **Output Voltage Regulation**  
Output Voltage Accuracy  $\pm 0.5\%$ ,
- **High Efficiency**  
Better than 98%
- **Independent Phase Control Circuit**  
Sensing on all Three Individual Phases
- **Soft Switch-ON**  
Ensure that the Voltage Stabiliser is at its minimum before it commence 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  
Manual maintenance bypass switch

#### 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

#### Applications

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



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### Technical Specifications

<b>Input Swing Range</b>	±15% 3 Phase 4 Wire (3P+N)	<b>Independent Phase Control</b>	Maintain each phase voltage stable irrespective of load unbalance, even up to 100% load unbalance
<b>Output Voltage</b>	Pre-settable for any voltage between 380/220V; 400/230V or 415/240V	<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 Manual maintenance bypass switch
<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	Note: Optional accessories added may affect dimension, subject to confirmation.	
<b>Surge Suppression</b>	Protect loads against high-energy spikes and transient voltage.	Note: 1) 208V 3Phase 3Wire or 4Wire options available on order 2) Special voltage configurations available on order 3) Higher KVA rating options available on order	
<b>Surge Arrester</b>	40KA at 415V AC Class III (IEC 61643-1:1998-02, EN 61643-11:2001)		
<b>Total Harmonic Distortion</b>	<1%		



Utilizing Advanced Digital Controller



### Three Phase Model: OSES-H-3P-S15

Model:	Rating KVA	Amps @ 380V	Amps @ 400V	Amps @ 415V	Dimensions (mm) W x H x D	Weight (Kgs)
OSES 6H-3P-S15	6	9.1	8.7	8.3	880 x 770 x 610	99
OSES 10H-3P-S15	10	15.2	14.4	13.9	880 x 770 x 610	100
OSES 15H-3P-S15	15	22.8	21.6	20.9	880 x 770 x 610	110
OSES 20H-3P-S15	20	30.4	28.9	27.8	880 x 770 x 610	130
OSES 25H-3P-S15	25	38	36.1	35	880 x 770 x 610	140
OSES 30H-3P-S15	30	46	43	42	880 x 770 x 610	142
OSES 35H-3P-S15	35	53	51	49	880 x 880 x 660	180
OSES 40H-3P-S15	40	61	58	56	880 x 880 x 660	182
OSES 45H-3P-S15	45	68	65	63	880 x 880 x 660	184
OSES 50H-3P-S15	50	76	72	70	880 x 880 x 660	192
OSES 55H-3P-S15	55	84	79	77	880 x 880 x 660	209
OSES 60H-3P-S15	60	91	87	83	880 x 880 x 660	212
OSES 75H-3P-S15	75	114	108	104	1100 x 1050 x 840	272
OSES 80H-3P-S15	80	122	115	111	1100 x 1050 x 840	310
OSES 90H-3P-S15	90	137	130	125	1100 x 1050 x 840	315
OSES 100H-3P-S15	100	152	144	139	1100 x 1050 x 840	320
OSES 120H-3P-S15	120	182	173	167	1100 x 1050 x 840	384
OSES 150H-3P-S15	150	228	216	209	1100 x 1050 x 840	424
OSES 180H-3P-S15	180	273	260	250	1100 x 1480 x 840	565
OSES 200H-3P-S15	200	304	289	278	1100 x 1480 x 840	615
OSES 250H-3P-S15	250	380	361	348	1380 x 1530 x 920	845
OSES 300H-3P-S15	300	456	433	417	1380 x 1530 x 920	920
OSES 350H-3P-S15	350	532	505	487	1380 x 2050 x 1080	1150
OSES 400H-3P-S15	400	608	577	556	1380 x 2050 x 1080	1165
OSES 450H-3P-S15	450	684	649	626	1380 x 2050 x 1080	1300
OSES 500H-3P-S15	500	760	722	695	1380 x 2050 x 1080	1320