

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



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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

Input Swing Range	±15% 3 Phase 4 Wire (3P+N)	Independent Phase Control	Maintain each phase voltage stable irrespective of load unbalance, even up to 100% load unbalance
Output Voltage	Pre-settable for any voltage between 380/220V; 400/230V or 415/240V	Soft Switch-ON	Ensure that the output voltage is at its minimum upon Switch-On before it commence full stabilization
Output Voltage Accuracy	± 0.5%	Environment	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
Frequency	47 – 65 Hz	Standard Features	Input circuit breaker Over/Low voltage protection Phase failure protection Bypass control switch Voltmeter/selector switch
Response Time	<1.5ms	Construction	Enclosures to IP54, BS EN5490 / IEC 60529
Correction Time	A 10% supply variation will be corrected to within 2.5% in 0.6 seconds	EMC Conformance	BS EN50081-1;2 / IEC 61000-4-3;4
Efficiency	98%	CE Conformity	EN55022, EN50082-2, ENV50140-1
Power Factor	Any lagging to 0.95 leading	Optional Accessories	Output circuit breaker Ammeter/selector switch Frequency meter Manual maintenance bypass switch
Surge ratings	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.	
Surge Suppression	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	
Surge Arrester	40KA at 415V AC Class III (IEC 61643-1:1998-02, EN 61643-11:2001)		
Total Harmonic Distortion	<1%		



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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

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Technical Specifications

Input Swing Range	±20% 3 Phase 4 Wire (3P+N)	Independent Phase Control	Maintain each phase voltage stable irrespective of load unbalance, even up to 100% load unbalance
Output Voltage	Pre-settable for any voltage between 380/220V; 400/230V or 415/240V	Soft Switch-ON	Ensure that the output voltage is at its minimum upon Switch-On before it commence full stabilization
Output Voltage Accuracy	± 0.5%	Environment	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
Frequency	47 – 65 Hz	Standard Features	Input circuit breaker Over/Low voltage protection Phase failure protection Bypass control switch Voltmeter/selector switch
Response Time	<1.5ms	Construction	Enclosures to IP54, BS EN5490 / IEC 60529
Correction Time	A 10% supply variation will be corrected to within 2.5% in 0.6 seconds	EMC Conformance	BS EN50081-1;2 / IEC 61000-4-3;4
Efficiency	98%	CE Conformity	EN55022, EN50082-2, ENV50140-1
Power Factor	Any lagging to 0.95 leading	Optional Accessories	Output circuit breaker Ammeter/selector switch Frequency meter Manual maintenance bypass switch
Surge ratings	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.	
Surge Suppression	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	
Surge Arrester	40KA at 415V AC Class III (IEC 61643-1:1998-02, EN 61643-11:2001)		
Total Harmonic Distortion	<1%		



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Three Phase Model: OSES-H-3P-S20

Model:	Rating KVA	Amps @ 380V	Amps @ 400V	Amps @ 415V	Dimensions (mm) W x H x D	Weight (Kgs)
OSES 6H-3P-S20	6	9.1	8.7	8.3	880 x 770 x 610	113
OSES 10H-3P-S20	10	15.2	14.4	13.9	880 x 770 x 610	115
OSES 15H-3P-S20	15	22.8	21.6	20.9	880 x 770 x 610	120
OSES 20H-3P-S20	20	30.4	28.9	27.8	880 x 770 x 610	130
OSES 25H-3P-S20	25	38	36.1	35	880 x 880 x 660	177
OSES 30H-3P-S20	30	46	43	42	880 x 880 x 660	180
OSES 35H-3P-S20	35	53	51	49	880 x 880 x 660	212
OSES 40H-3P-S20	40	61	58	56	880 x 880 x 660	215
OSES 45H-3P-S20	45	68	65	63	880 x 880 x 660	218
OSES 50H-3P-S20	50	76	72	70	1100 x 1050 x 840	304
OSES 55H-3P-S20	55	84	79	77	1100 x 1050 x 840	307
OSES 60H-3P-S20	60	91	87	83	1100 x 1050 x 840	310
OSES 75H-3P-S20	75	114	108	104	1100 x 1050 x 840	340
OSES 80H-3P-S20	80	122	115	111	1100 x 1050 x 840	402
OSES 90H-3P-S20	90	137	130	125	1100 x 1050 x 840	406
OSES 100H-3P-S20	100	152	144	139	1100 x 1050 x 840	410
OSES 120H-3P-S20	120	182	173	167	1100 x 1480 x 840	555
OSES 150H-3P-S20	150	228	216	209	1100 x 1480 x 840	650
OSES 180H-3P-S20	180	273	260	250	1380 x 1530 x 920	855
OSES 200H-3P-S20	200	304	289	278	1380 x 1530 x 920	900
OSES 250H-3P-S20	250	380	361	348	1380 x 2050 x 1080	1060
OSES 300H-3P-S20	300	456	433	417	1380 x 2050 x 1080	1170
OSES 350H-3P-S20	350	532	505	487	1380 x 2050 x 1080	1395
OSES 400H-3P-S20	400	608	577	556	1380 x 2050 x 1080	1410
OSES 450H-3P-S20	450	684	649	626	1380 x 2050 x 1080	1490
OSES 500H-3P-S20	500	760	722	695	1380 x 2050 x 1080	1510

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Outdoor AC Automatic Voltage Stabilisers & Regulators

Technical Specifications

Input Swing Range	±25% 3 Phase 4 Wire (3P+N)	Independent Phase Control	Maintain each phase voltage stable irrespective of load unbalance, even up to 100% load unbalance
Output Voltage	Pre-settable for any voltage between 380/220V; 400/230V or 415/240V	Soft Switch-ON	Ensure that the output voltage is at its minimum upon Switch-On before it commence full stabilization
Output Voltage Accuracy	± 0.5%	Environment	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
Frequency	47 – 65 Hz	Standard Features	Input circuit breaker Over/Low voltage protection Phase failure protection Bypass control switch Voltmeter/selector switch
Response Time	<1.5ms	Construction	Enclosures to IP54, BS EN5490 / IEC 60529
Correction Time	A 10% supply variation will be corrected to within 2.5% in 0.6 seconds	EMC Conformance	BS EN50081-1;2 / IEC 61000-4-3;4
Efficiency	98%	CE Conformity	EN55022, EN50082-2, ENV50140-1
Power Factor	Any lagging to 0.95 leading	Optional Accessories	Output circuit breaker Ammeter/selector switch Frequency meter Manual maintenance bypass switch
Surge ratings	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.	
Surge Suppression	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	
Surge Arrester	40KA at 415V AC Class III (IEC 61643-1:1998-02, EN 61643-11:2001)		
Total Harmonic Distortion	<1%		



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Three Phase Model: OSES-H-3P-S25

Model:	Rating KVA	Amps @ 380V	Amps @ 400V	Amps @ 415V	Dimensions (mm) W x H x D	Weight (Kgs)
OSES 6H-3P-S25	6	9.1	8.7	8.3	880 x 770 x 610	119
OSES 10H-3P-S25	10	15.2	14.4	13.9	880 x 770 x 610	122
OSES 15H-3P-S25	15	22.8	21.6	20.9	880 x 770 x 610	131
OSES 20H-3P-S25	20	30.4	28.9	27.8	880 x 880 x 660	172
OSES 25H-3P-S25	25	38	36.1	35	880 x 880 x 660	197
OSES 30H-3P-S25	30	46	43	42	880 x 880 x 660	200
OSES 35H-3P-S25	35	53	51	49	1100 x 1050 x 840	312
OSES 40H-3P-S25	40	61	58	56	1100 x 1050 x 840	316
OSES 45H-3P-S25	45	68	65	63	1100 x 1050 x 840	320
OSES 50H-3P-S25	50	76	72	70	1100 x 1050 x 840	364
OSES 55H-3P-S25	55	84	79	77	1100 x 1050 x 840	368
OSES 60H-3P-S25	60	91	87	83	1100 x 1050 x 840	372
OSES 75H-3P-S25	75	114	108	104	1100 x 1050 x 840	412
OSES 80H-3P-S25	80	122	115	111	1100 x 1480 x 840	602
OSES 90H-3P-S25	90	137	130	125	1100 x 1480 x 840	606
OSES 100H-3P-S25	100	152	144	139	1100 x 1480 x 840	610
OSES 120H-3P-S25	120	182	173	167	1380 x 1530 x 920	804
OSES 150H-3P-S25	150	228	216	209	1380 x 1530 x 920	905
OSES 180H-3P-S25	180	273	260	250	1380 x 2050 x 1080	1050
OSES 200H-3P-S25	200	304	289	278	1380 x 2050 x 1080	1100
OSES 250H-3P-S25	250	380	361	348	1380 x 2050 x 1080	1160
OSES 300H-3P-S25	300	456	433	417	1380 x 2050 x 1080	1400
OSES 350H-3P-S25	350	532	505	487	1380 x 2050 x 1080	1540
OSES 400H-3P-S25	400	608	577	556	1380 x 2050 x 1080	1560
OSES 450H-3P-S25	450	684	649	626	1380 x 2050 x 1460	1890
OSES 500H-3P-S25	500	760	722	695	1380 x 2050 x 1460	1910

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