

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, 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 and outdoor 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 SINGLE PHASE 3KVA ~ 100KVA



Models:

High Voltage (H) Models
220V; 230V or 240V
(Single Phase)

Low Voltage (L) Models
115V; 120V or 127V
(Single Phase)

Features:

- **Wide Range of Voltage Stabiliser**
Single Phase Up to 100KVA
- **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 $\pm 1\%$,
- **High Efficiency**
Better than 98%
- **Standard Protection Features**
Model OSES 1H – 10H
Input circuit breaker
Voltmeter (Internal)
Bypass control switch
Model OSES 15H– 100H
Input circuit breaker
Voltmeter (Internal)
Bypass control switch
- **Optional Accessories**
Output circuit breaker
Ammeter (Internal)
Bypass control switch
Over Low Voltage Protection
Heater / Thermostat for Low
Temperature Applications
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%, ±20%, ±25%, ±30%, ±35%, <i>Single Phase</i> | Total Harmonic Distortion | <1% |
| Output Voltage | Presettable for any voltage between 220V; 230V or 240V | Soft Switch-ON | Ensure that the output voltage is at its minimum upon Switch-On before it commence full stabilization |
| Output Voltage Accuracy | ± 1% | 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 | Construction | Enclosures to IP54, BS EN5490 / IEC 60529 |
| Response Time | <1.5ms | EMC Conformance | BS EN50081-1;2 / IEC 61000-4-3;4 |
| Correction Time | A 10% supply variation will be corrected to within 2.5% in 0.6 seconds | CE Conformity | EN55022, EN50082-2, EN50140-1 |
| Efficiency | 98% | Standard Features | Input circuit breaker & internal voltmeter (All Models) |
| Power Factor | Any lagging to 0.95 leading | Optional Accessories | Output circuit breaker Bypass control switch Over/Low voltage protection Ammeter Heater / Thermostat for Low Temperature Applications 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 | Warranty | 2 Years |
| Surge Suppression | Protect loads against high-energy spikes and transient voltage. | | |
| Surge Arrester | 40KA at 275V AC Class III (IEC 61643-1:1998-02, EN 61643-11:2001) | | |

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

Note: 1) Special voltage configurations available on order
2) Higher KVA rating options available on order

Single Phase Model: OSES-H-S*

| Model: | Rating KVA | Amps @ 220V | Amps @ 230V | Amps @ 240V | Dimensions (mm) W x H x D | Weight (Kgs) |
|-------------|------------|-------------|-------------|-------------|------------------------------------|--------------|
| OSES 3H-S | 3 | 13.6 | 13 | 12.5 | Dimensions and Weight upon request | |
| OSES 5H-S | 5 | 23 | 22 | 21 | | |
| OSES 8H-S | 8 | 36 | 35 | 33 | | |
| OSES 10H-S | 10 | 45 | 44 | 42 | | |
| OSES 15H-S | 15 | 68 | 65 | 63 | | |
| OSES 20H-S | 20 | 91 | 87 | 83 | | |
| OSES 25H-S | 25 | 113 | 108 | 104 | | |
| OSES 30H-S | 30 | 136 | 130 | 125 | | |
| OSES 40H-S | 40 | 182 | 174 | 167 | | |
| OSES 50H-S | 50 | 227 | 217 | 208 | | |
| OSES 60H-S | 60 | 273 | 261 | 250 | | |
| OSES 75H-S | 75 | 341 | 326 | 313 | | |
| OSES 100H-S | 100 | 455 | 435 | 417 | | |

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