

# SERVO VOLTAGE

## STABILIZER

Voltage fluctuations are a common phenomenon in power supply system. Such fluctuations may result into erratic behavior, malfunction or even break down leading to expensive repairs, production loss and missed commitments. Servo Stabilizers stand as robust solutions for countering the uncertainties in AC mains voltage. Designed with precision, these stabilizers serve as guardians, ensuring a steadfast output voltage even in the face of unpredictable power fluctuations.

Utilizing an advanced technology, the Servo Stabilizer maintains a consistent output voltage by swiftly responding to variations in the incoming power supply.



AM Power



### SILENT FEATURES

- Micro Controller based Fast Signal Processing circuit.
- High Torque Low Inertia AC Synchronous Motor.
- Rate of Correction up to 70 V / Seconds.
- Response time less than 10 m seconds.
- Energy Efficient - Low losses with Efficiency better than 98%.
- Auto / Manual & Lower Raise controls.
- Advanced electronic circuits to maintain constant output voltage even on DG.
- LCD Display for 3 Phase Electrical parameters like Input-Output Voltages L-N & L-L / Output-Load Current / Frequency, Various faults display, and display current Stabiliser Status.
- Last 100 tripped faults log to check performance history.

### OPTIONAL FEATURES

1. Earth Leakage/Ground Fault Monitoring with Trip & Indication.
2. Surge Protective Device 8/20 micro sec. as per IEC 61000-4-4 / 61000-4-5.
3. Surge Suppressor (Metal Oxide Varistor).
4. High Low Frequency Cut off.

### PROTECTION

- Per Phase settable Input under & Over Voltage Fault indication and Time delayed tripped.
- Per Phase settable Output under & Over Voltage Fault indication and Time delayed tripped.
- Per Phase settable Over load, Fault indication and Time delayed tripped.
- Input Phase missing or Phase Reversal Instant Tripping.
- Protection against Incoming Neutral / Earth missing Instant Tripping.
- Limit switches for Servo Motor at extreme input low and high.
- Time delayed Auto start, for stable Voltages at Output. (Optional Manual Start)

Type	KVA Ratings	Model	Servo Motor	Input Voltage Range (VAC)	Output Voltage (VAC)
1 Phase	1 – 50 KVA	AMS – 100 AMS – 2000	AC Synchronous Servo Motor	170 - 270	220/230/240
				150 - 300	220/230/240
Unbalance 3 Phase Air Cooled	5 – 150 KVA	AMR – 06 AMR – 100	AC Synchronous Servo Motor	340 - 480	380/400/415
				360 - 460	380/400/415
				300 - 500	380/400/415
Unbalance 3 Phase Oil Cooled	50 – 1500 KVA	AMRO – 30 AMRO – 1500	AC Synchronous Servo Motor	340 - 480	380/400/415
				360 - 460	380/400/415
				300 - 500	380/400/415

- a) Please contact our sales and application engineers for further guidance.  
b) Non-Standard Input Voltage Range and Output Voltages are also available on request.

## TECHNICAL SPECIFICATIONS

Output Voltage Accuracy	1%
Response Time	< 10 m.sec
Rate of Correction	Upto 70 V / Sec
Efficiency	Better than 98 %.
Frequency	47 – 53 Hz.
Effect of Load Power Factor	Nil
Wave form Distortion	Nil (Same as input)
Harmonic Distortion	None
Unbalanced Line and Load	Independent phase sensing and control provides for 100 % load imbalance.
MCB/MCCB #	At Incoming for Over Load and Short circuit protection.
Environment	Temperature range – 0 to 45 °C. Suitable for indoor Tropical use 90% RH (non-condensing)
Construction	IP21
Color	RAL – 7035 (Grey)

## APPLICATIONS

CNC Machines	Printing Machines	Food Industries	Medical Diagnostic Equipment
Lab Equipment	Electronic Equipment	Data centers	Process Control equipment's
Water Treatment Plant	Injection Moulding Ind.	Robotics	Telecommunication Systems
Textile Machinery	Automobile Industries	HVAC Plants	Automatic car Parking System
Hospitals	Residential	Elevators	Pharmaceutical Machine

## STABILISER INSTALLATION DIAGRAM



## CONTACT

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