



## SERVO CONTROLLED VOLTAGE STABILIZER

### FEATURES :

- Widely fluctuating mains supply is always a cause of concern to the user of modern precision and sophisticated electrical and electronic equipments, like computers & NC / CNC machine tools. Even the performance of more rugged equipment like induction motors & heaters, deteriorates with fluctuating supply voltage.
- Servo-controlled voltage stabilizer is an effective & economic solution to this chronic problem. These are made in large varieties to meet every need of all types of industries.



### SPECIFICATION :

Standard models voltage stabilizers are made to following specification.

	1 PHASE	3 PHASE
INPUT	180V - 260V	300V - 460V
		360V - 440V
OUTPUT	230V - 240V*	380 / 400V / 415V*
FREQUENCY	50 / 60Hz	
CAPACITY	1 KVA TO 1000KVA	

*\* Any one output voltage will be available.*

- Non standard models are made to customer's specific requirements to cater any other input voltage range / output voltage / frequency / capacity etc.
- 3 Phase models with single voltage sensing relay and single drive motor are suitable for fairly balanced supply voltage and load.
- To over come unbalanced voltage and load conditions, 3 Nos 1 phase units mounted in a single cabinet and connected in star, are recommended.

## **BUILT IN FEATURES :**

- A Voltmeter with switch to indicate input / output voltages.
- Long term stability of  $\pm 1\%$ .
- Output setting -  $\pm 5$  Volts by a lockable potentiometer.
- High efficiency above 95%.
- Indications for "Power ON", "Input too low" & " Input too high".
- A drive motor of special construction having high torque, low speed output with instant start / stop / reverse characteristics.

## **CONSTRUCTION :**

Lower capacity units, up to 50KVA are in air cooled single unit construction. Higher capacity units will be in two piece construction for the convenience of transportation & installation. Inter connecting cables / bus bars will be provided with the equipment. Both sections will be floor mounting type, and either one or both may be oil cooled depending on requirement.

## **OPERATION :**

The voltage stabilizer works on a simple principal of adding or a subtracting a voltage to the supply voltage in appropriate quantity to correct it to the required level. This voltage to be added or subtracted is obtained from the mains itself, using a continuously variable voltage auto transformer, driven by a servo motor under the control of voltage sensing relay. This relay sense the output voltage continuously, compares with a highly stable reference and directs the drive motor to correct the output voltage to the set level.

## **SALIENT FEATURES :**

- Fully solid state voltage sensing relay using professional grade components.
- No relay - No chattering - No RF interference.
- Fast acting.
- Fully tropicallised, most suitable for weather conditions prevailing in Indian sub-continent.
- Variable transformer and voltage sensing relay-most important components are made in house under strict quality control.
- Variation in the supply, frequency and load p. f. has no effect on the output voltage setting.
- No harmonic distortion is introduced by the stabilizer.

## OPTIONAL FEATURES :

- Over voltage / under voltage protection relays.
- Over load protection relay.
- Remote sensing facility.

---

Head Office : E/2, Niwara, Near Star Colony, Manpada Road, Dombivli (East) -Thane, Pin Code : 421204, MH, India.  
Regd. Office : B-301, Vasant Vihar Annexe, Gandhi Nagar, Dombivli (East)- Thane Pin Code : 421204, MH, India.  
Contact On : Telefax : +91 251 871652 Email : [info@ajitelectronics.com](mailto:info@ajitelectronics.com) Visit : [www.ajitelectronics.com](http://www.ajitelectronics.com)

