

STEADYVOLT

SERVO VOLTAGE STABILIZERS



STEADYVOLT

The highly fluctuating A.C. Mains supply is a very common phenomenon and the difficulties caused by them are known too well and need not be enumerated. The emergence of sophisticated computer era has created the need for a stable input supply as a basic necessity. The absence of this stable supply creates problems in many equipments. Unsteady voltage supply conditions result in total breakdowns of sensitive and sophisticated equipments. The hope of getting a stable supply is very remote in our country and keeping this in view, MARSZ have developed the micro controller based “STEADYVOLT” Servo Voltage Stabilizer.

“STEADYVOLT” Conforms to **I.S 9815, IEC 614391:2011, IEC 61439-2:2011.**

MARSZ manufactures Servo Voltage Stabilizers from 1 KVA to 5000 KVA 1Ph and 3Ph air cooled and oil cooled models.

APPLICATIONS:

“STEADYVOLT” Servo Voltage Stabilizers have many applications. To name a few,

- I. For Computers, Xerox Machines etc.
- II. For Micro processor based equipments like C.N.C. Lathes and a host of other C.N.C. based equipments / Machinery.
- III. For Medical Equipments.
- IV. High capacity 3 Phase Stabilizers for entire factory and vital installations. “STEADYVOLT” increases life of tube-lights & bulbs.
- V. For Laboratories and process control equipments.

FEATURES :

The following are built-in features of each and every “STEADYVOLT” Servo Voltage Stabilizer.

- I. Micro-controller based closed loop control system.
- II. Digital Voltmeter to read input & output voltage between Phase to Neutral & Phase to Phase.
- III. Fully solid state control circuitry, using high stability Industrial grade Silicon Semi-conductors. Relays are totally eliminated, reducing chances of failures in the field.

- IV. Efficiency better than 98% at full load.
- V. Interchangeable plug in control card and module.
- VI. Unaffected by change in supply frequency between 45 to 65 Hz.
- VII. Digital Voltmeter, Ammeter and Frequency meter are inbuilt.
- VIII. In case of 3 phase units, single phasing preventer & phase reversal protection are inbuilt in our controller.
- IX. Large short time overload capacity, ideally suited for high starting current of inductive motors.
- X. No Phase shift.
- XI. Easy manual operation in the unlikely event of auto circuit failure.
- XII. High speed of correction up-to 50V per second.

ADDITIONAL FEATURES (OPTIONAL):

The following additional features can be provided against specific enquiries at an extra cost.

- I. Under voltage and over voltage cut off.
- II. Output cut off in case the output voltage goes beyond set limits. In both the above cases, time delay can be provided to avoid problems caused by erratic tripping.
- III. M. C. B. / M. C. C. B, Contactor protection on the input / output.
- IV. Audio / Visual Alarm to indicate input high / low and output high / low.
- V. Surge & Spike Suppressor

SPECIFICATIONS:

“STEADYVOLT” Servo Voltage Stabilizers are mass manufactured in the following ranges.

- I. SINGLE PHASE UNITS: Input 170 - 270 V 1Ph 50 Hz or 160 - 260 V 1Ph 50Hz. Output 230 or 240 V \pm 1% 1Ph 50 Hz.
- II. THREE PHASE UNITS: Input 300 - 480 V 3 Ph 50 Hz. or 340 - 480 V 3 Ph 50 Hz. Regulation against load variation from No Load to Full Load \pm 1%. Air cooled and oil cooled versions are offered to suit customer's specific requirements.

STEADYVOLT can be made to suit your specific voltage requirements for any unbalanced load conditions.