MAKE IN INDIA

RS Power

Power+

Power Solutions

Ensuring Seamless Growth

Servo Voltage Stabilizer
(100 KVA – 2000 KVA)

Servo Voltage Stabilizer
(10 KVA – 100 KVA)

Servo Motor Operated Line Voltage Correctors
(Servo Voltage Stabilizer/Automatic Voltage Regulator)

Servo
Voltage Stabilizer

Servo Voltage Stabilizer

Central/State Govt. buildings, Corporate Offices, Commercial Buildings, Hotels, Big Hospitals, Industrial Units, Data Centers, Printing Presses, Petrol/Diesel dispensing machines, Laboratories etc. running round-the-clock and frequently face the problem of low and high voltage. Most of the load is of Computers, IT Peripherals, Electrical Utilities, Air Conditioners, Medical Equipments, Motors, Laboratory Equipments, Telecommunication Equipments, Machine Tools and CNC Equipments. Servo Voltage Stabilizer is an equipment that helps obtain constant voltage from fluctuating supply system and most suitable for 24 hrs. continuous operations, where breakdowns owing to fluctuation result in heavy financial losses and damage of expensive equipments and utilities.

Servo Voltage Stabilizer, copper wound indoor type, continuous duty, confirming to IS: 9815 (Pt.1)/1994 (Reaffirmed 2004) suitable for phase voltage of 120-280 Volts/160-260 Volts. Three phase Servo Voltage Stabilizer comprises of three single phase Servo Voltage Stabilizer confirming to IS: 9815 (Pt.1)/1994 (Reaffirmed 2004), connected in star and enclosed in a single enclosure with common control panel and shall be suitable for unbalance input voltage. Rated output shall be 240V for single phase and 415V for three phase Servo Voltage Stabilizer respectively.

FEATURES:

- Integrated circuits control without relays
- Auto-manual operation facilities from front panel
- Step less voltage correction at high speed without overshoot
- Zero waveform distortion and unaffected by load power factor
- Output voltage sensing circuits that use solid state switching circuits
- High efficiency and unaffected by line frequency variation (between 48 Hz to 52 Hz)

OPTIONAL FEATURES:

- Overload protection
- Filters for line interferences
- Single phasing preventer in three phase
- Automatic switch-off against over/under voltage
- Time delay: Starts equipment after 2-3 minutes to protect against intermittent failures of power supply

APPLICATIONS & USERS:

- Central/State Govt. Buildings
- Corporate Offices, Commercial Buildings & Hotels
- Medical Equipments/Big Hospitals
- Industrial Units (Machine Tools/CNC Equipments/Automation)
- Data Centers
- Printing Presses
- Air Conditioners & Electrical Utilities
- Petrol/Diesel dispensing machines
- Laboratories
- Signal, Telecommunication and Broadcasting Equipments

TECHNICAL SPECIFICATIONS:

Item	Servo Controlled Voltage Stabilizer
Capacity	1.0 KVA to 2000 KVA
Cooling	Air and Oil Cooled in two separate modules
Type	Indoor, Floor Mounting (Balanced/Unbalanced)
Input Voltage Range	• 300-460 V/ 320-460 V/340-460 V/360-460 V in 3-phase, 4 wires AC system • 170-270 VAC/ 140-270 VAC, Single Phase or any voltage range as per requirement for both Single and Three Phase
Output Voltage	• 380 VAC/ 400 VAC/ 415 VAC ± 1%, 3 phase, 50 Hz • 220 VAC/ 230 VAC ± 1%, Single Phase or any voltage as per requirement for both Single and Three Phase
Output Voltage Adjustment	± 5%
Frequency Range of Operation	47-53 Hz
Correction Speed	35 volts/sec.
Control Circuit	Solid-state electronic plug-in PCB circuits
Efficiency	• Above 98% at full load • Above 95% at half load
Adjustment	Output voltage level and correction sensitivity to be adjustable
No load loss at minimum rated input voltage	Less than 3% of the rated capacity
No load loss at maximum rate input voltage	Less than 3% of the rated capacity
Full load loss at minimum rate input voltage	Less than 5% of the rated capacity
Full load loss at maximum rate input voltage	Less than 5% of the rated capacity

Maximum load loss and input voltage at which it occurs	At minimum input
Duty Cycle	Continuous
Short Time Overload Capacity	• Not less than 110% for 5 minutes
Alarms and Tripping*	• Output voltage HI/LOW alarm and tripping through to be adjustable • Input single phasing alarm and tripping through input MCCB • Input phase reversal alarm and tripping through input MCCB • Over temperature sensing and alarm
Metering	• Input voltmeter with selector switch (Ph-Ph & Ph-N) • Output voltmeter with selector switch (Ph-Ph & Ph-N) • Ammeter for R, Y, B input currents with selector switch • Oil temperature by digital meter
Indications (using LED type lamps)	• Input ON (after MCCB) on lamp • Output R, Y, B separate lamps (after MCCB) • Input phase reversal • Input single phasing • Unit over temperature • Input MCCB Trip
Protection*	• Input MCCB for OL & SC protection • Output MCCB for OL & SC protection • Input phase reversal
Bypass Arrangement*	Suitable bypass arrangement for bypassing the input supply to output and Isolating the Servo Stabilizer for maintenance/ repair
Power Circuit Diagram on Panel (Mimic Panel)*	Power and control circuit diagram with above indication to be screen printed (Mimic panel) on the front panel of the Servo Stabilizer
Operating Temperature	Up to 50^{0}C
Operating Humidity	Up to 95% RH
Confirming to	IS: 9815 (Pt.1)/1994 (Reaffirmed 2004) with latest amendments
Oil	Transformer grade oil confirming to IS: 335/IEC 296
General	Painting using 7 tank process system, Earthing bolts, lifting hooks
*Optional	

* In the interest of continuous product improvement, all specifications are subject to change without notice.

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