

LINEAR A.C. VOLTAGE REGULATOR (Roller Type)



10 KVA To 5 MVA

www.selvon.net

Company Profile



has a proven track record of more than a decade in manufacturing of highly reliable and efficient Servo Controlled Automatic Voltage Stabilizers and other products. Our motto is total commitment towards customer's satisfaction. Since established in 1986 we have focused on the various aspects of power quality and its possible solutions. With this experience in hand, we move ahead with constant refinement of production techniques for the optimum satisfaction of our clients. Due to our special designs, stringent quality standard (as per IS: 9815-94) and efficient after Sales Service, we enjoy a good rapport with our buyers. **Our efforts have been amply rewarded with repeat orders and project assignments from Govt. Depts / Public sectors / Institutions / MNCs & Big Business / Industrial houses.**

Introduction

Voltage fluctuations are a common phenomenon in most parts of the country. Despite the best efforts by Electricity Boards/Undertakings the problems remain unresolved owing to diverse load conditions, losses in power during Transmission & Distribution.

These fluctuations in supply voltage from very Low to Very High, results in frequent Breakdowns/Trippings of the Motors, Sophisticated Equipments, Machinery etc. leading to **Low Production, higher rate of rejection & high maintenance cost.**

Almost 90% of the industrial Load is of Motors & that too Induction Motors. These Motors draw very high Currents both at Low/High Voltages. This results into higher Losses, causing Overheating of the Motors resulting in **Premature failure/damage** of the Windings. Higher Power Losses also increases the Losses in cables, Switches, Transformers & other Equipments, further **increasing the Maintenance cost % higher Electricity Bills. Also, at Low Voltages**, furnaces & heating loads take more time to reach the desired Temperatures & at High Voltages the heating Coils get damaged.

Beside Industrial loads, Voltage Fluctuations also effects the performance of Lighting, elevators & in some cases damage the sophisticated & expensive CNC/PLC controlled equipments.

Field of Application:

Selvon make **Linear A.C. Voltage Regulators** are the most suited to control low to high voltage fluctuations & provide Constant voltage of 400V/415+/-1%.

These Regulators are the most suitable for:

Information Technology & Call Centres.
Computers & Microprocessor Control Systems.
Sophisticated Research Instruments used in Scientific, Medical, Agriculture, Educational & Other Research Institutions.
Offset Printing Presses, Color Scanners, Processors, Phototypesetters, Photocopiers, Packaging Machines.
Medical Equipments, X-Ray Machines, Refrigerators, MRI, CT scans etc.
Defence Installations, LPTs, HPTs, Broadcasting & Telecommunications.
Lifts, Escalators & Elevators.
Central Air- Conditioning plants, Processing plants, Chemical Industries, Textile Industries, Cold Store.
CNC Machines, Laser Machines & Moulding Machines etc.
Commercial Buildings & Complexes.
Cement Plants, Food Processing Units
Hotels, Hospitals, Restaurants etc.

Advantage of Selvon's Linear Voltage Stabilizer

Upto 80% reduction in Failure Rate of Installed Equipments
Reduction in MDI
Reduced Maintenance Cost
Improved Power Factor
Battery Productivity/Quality of the end Product
Pay Back in 12-18 Months (Load Based)
Voltage Correction Automatically & Continuously
100% depreciation from Income Tax
Save on diesel cost
Reduction in Electricity Bills upto 10% (This depends on Input Variation, Loading & Number of working hours)

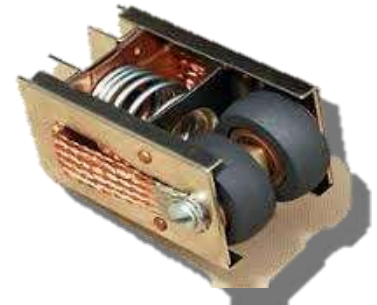
Other Products

	Oil Cooled Servo Stabilizer		Air Cooled Servo Stabilizer
	Isolation Transformer		IGBT Static Stabilizer
	On-Line UPS		AMF Panel
	APFC Panel		Digital AVR

Product Details

Roller Carbon Brushes

The Roller brush technology gives high reliability due to less wear & tear, as the surface area in contact keeps on changing during the stabilisation process. The roller contact is fitted with spring tension behind to keep the roller intact with coil for trouble free operation. There are self lubricating roller assemblies with a life span of appx. 1 lac track meters.



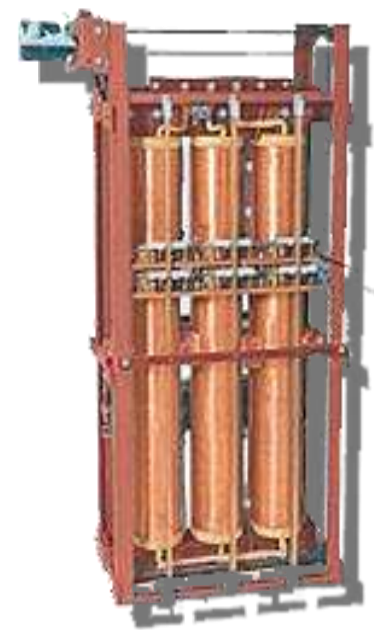
Roller Carbon Brushes

Linear Voltage Regulator

Linear Voltage regulators employ vertical windings with carbon Rollers on both sides of the coil. Linear technology employs heavy section of electrolytic grade rectangular Copper Strip, in order to minimize the loses. The core is built from grain oriented silicon steel laminations to keep the loses to the minimum. This is suitable for 100% continuous duty & have the capability to adhere to heavy inrush starting loads.

Outstanding Features of Selvon Linear Voltage Regulator

Higher Overload Capability for high inrush & regenerating currents of induction motors.
Machine wound variable linear voltage regulators.
Specially designed transformers to minimize losses, with CRGO/CRNO Lamination.
99.9% purity electrolytic conductors used for regulators.
Microprocessor based Control Circuits used for corrections
All Components used are of reputed makes, conforming to relevant IS/BS standard
Suitability designed for 55 deeg. Ambient
Efficiency better than 99%.
Burn Proof/brush less A.C. Synchronous Motors used for greater reliability & Life Long



Linear Voltage Regulator

Technical Specifications

Capacity	10KVA to 5000 KVA (Three Phase)
Input Voltage Range	350V-450V, 340V-460V, 330V-470V, 320V-480V, 300V-500V
Output Voltage	400V / 415V Three Phase (adjustable)
Regulation	(±) 1.0 %
Supply Frequency	47 Hz – 53 Hz.
Efficiency	Better Than 99%
Effect Of Load Power Factor	Nil
Wave From Distortion	Nil
Rate Of Correction	6-8V/sec
Duty Cycle	100% Continuous
Cooling	AN / ONAN
Over Load Capacity	Upto 150% momentarily
Suitability	Suitable for 3 Ph unbalanced/ balanced supply & unbalanced / balanced load
Mounting	On wheels
Earthing	Two numbers of earthing terminals
Cable Termination Box	Input / Output connections
Ambient Temperature	-10°C to +50°C
Relative Humidity	Upto 95%

Note: Indicated input voltage ranges are corresponding to Nominal output voltage.

At other settings of output voltage, the input voltage range will shift proportionately.

Controls

- Auto / Manual Switch.
- Output Voltage Adjustment
- Increase / Decrease Push Buttons.

Indications

- AC Voltmeter with selector switch for Input / Output voltages.
- Mains Input ON, Output ON.
- Under Voltage / Over Voltage.
- AC Ammeter with selector switch for Output Current

Optional Accessories (at extra cost)

- Under / Over Voltage Trip-Off system.
- Time delay facility.
- Protection against Single phasing/ reverse phasing.
- Overload / Short circuit protection.
- By-pass facility.
- Surge suppressor.
- Remote panel.

Our Clients



Selvon Instrument Pvt. Ltd.

C-48, Electronic City,
Sector-63, Noida-201301 (U.P.)

Phone : 0120-471100 (30 Lines)

Email : marketing@selvon.net

website : www.selvon.net

Service Centres: All Over India