

SERVOKON

RAKHE SAB CONTROL MEIN



INDIA'S NO. 1
ROLLING CONTACT
SERVO STABILIZER

Upto 5000 KVA

WWW.SERVOKON.COM



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ABOUT US

OUR COMPANY OVERVIEW

One of the largest manufacturers and suppliers of power conditioning equipment and transformers in the Indian market, Servokon has been synonymous with quality and unmatched performance for more than three decades. The values embedded by Mr. Haji Kamruddin in the organisation's culture at the time of establishment in 1990 are still revered by the stakeholders, and they helped Servokon to steer towards international markets with exceptional growth on export fronts.

The brainchild of Mr. Haji Kamruddin has now evolved into a path-breaking brand of industrial and social significance, and the entire product range of Servokon speaks volumes about the vision and farsightedness of a leader with a high proclivity towards technological innovations and willingness to adopt the best business policies. That's why since its inception, the company has experienced tremendous growth that has gradually helped it to emerge as a national leader in power conditioning equipment and transformers.

Servokon manufactures and delivers avant-garde products, including Power Transformers, Distribution Transformers, Servo Voltage Stabilizers, Rolling Contact/Linear Type Servo Stabilizers, Automatic Voltage Stabilizers, Online UPS, Solar Power Generation System (SPGS), HT AVR, Built-in AVR, CVT, Variable Auto Transformer (Variac), HT & LT Electrical Panels, Furnace Transformers, Pad Mounted Transformers, Isolation Transformers, Compact Sub Stations (CSS), Packaged Sub Stations (PSS), Step Up & Step Down Transformers, Special Duty Transformers, Solar Inverter, Solar Battery, Solar Panels, Geysers and various other Industrial & Domestic Products. Servokon's progressive and transparent company policies and state-of-the-art manufacturing facilities have helped it to extend its market reach even beyond India.

Every product has to pass stringent quality tests before finding its place in the market. Servokon maintains Indian standards (IS), IEC, IEEE, NEMA & various international standards throughout the manufacturing and distribution processes. These consistent efforts in quality assurance have helped Servokon secure approval from the various reputed government institutions and boards such as Central Power Research Institute (CPRI), Electrical Research and Development Association (ERDA), National Test House (NTH), National Accreditation Board for Testing and Calibration Laboratories (NABL), Power Grid Corporation of India Limited and many more government approval bodies.

VISION

To carve a distinct and impactful niche in the production and supply of robust power conditioning solutions such as High-capacity Transformers and Servo Stabilizers through an efficient network of channel partners in India and abroad. Besides, Servokon is committed to facilitating the renewable energy goals of industries and economies through research-based and cost-effective solar power solutions.

MISSION

To successfully understand the present and future needs of domestic and overseas markets and meet their expectations with the most advanced, efficacious, and budget-friendly solutions. Moreover, to continuously add value to Servokon's products and services by leveraging innovations, incorporating skills, and adhering to professional ethics.



**Let's bring Quality
& Consistency
together!**

#SaifAliKhan

35
YEARS OF TRUST



SERVO VOLTAGE STABILIZER

The Servo Voltage Stabilizer (Voltage Corrector or Voltage Regulator) is an electrical and electronic product specially designed to control the fluctuations or stabilize the output voltage to prevent the electrical appliances and electrical equipment from breakdown due to voltage fluctuations on the input side. The Servo Voltage Stabilizer usually works on Low Voltage Lines (LT).

Why Servo Voltage Stabilizer is Required?

We are all part of the Hi-tech world; everything is automated with sophisticated sensors and robotic technologies. Automation plays an important role in every field, whether it is business, industry, telecommunications, printing, manufacturing, software, hospitals, homes, infrastructures, intelligence agencies, CNC machines, data science and many other diversified Industries.

Voltage fluctuations are a common phenomenon worldwide, especially in developing and underdeveloped countries. Voltage manifests itself in various ways, namely as low voltage or voltage drop, as high voltage or over Voltage, and as unbalanced voltage. The duration of these phenomena depends on the cause and is not easily predictable. Normally, the input voltage is low during the day and relatively high during the night hours, resulting in frequent power outages and consequently affecting production and overall costs.

In industry, due to the high load on equipment, unusual voltage fluctuations occur, which are one of the main causes of power outages or damage to expensive equipment. We cannot prevent the input voltage fluctuations, but we can install a SERVOKON make Servo Voltage Stabilizer to prevent the fluctuations. Subsequent use of the Servo Voltage Stabilizer saves energy and reduces MDI.

Manufacturing Range

- Oil Cooled Rolling Contact / Linear Type Servo Voltage Stabilizer
- Three Phase Rolling Contact / Linear Type Servo Voltage Stabilizer
- Indoor and Outdoor Type
- **Capacity :** 10 KVA to 5000 KVA (Any Special Customised Capacity as per requirement)
- **Voltage Range :** From 150 Volts to 550 Volts (Any Special Customised Voltage Range as per requirement)

WHY SERVOKON ?

There are many Servo Voltage Stabilizer manufacturers in the market, but we are the best because our specialties are:

- India's No. 1 Servo Voltage Stabilizer Manufacturing Company.
- India's 1st Company to stabilize the voltage from minimum 50 Volts.
- India's Only Company to manufacture the widest range of Stabilizers from 0.5 KVA to 5000 KVA.
- Fastest Production Capacity with Earliest Delivery in the Servo Industry.
- Ready to Dispatch Stock upto 300 KVA.
- Guarantee of Superior Quality and Best Workmanship.
- Very Economical and Cost-Efficient Construction.
- Best Durability and Heavy-Duty Products.
- Highly Efficient with Energy Saving Technology.
- Up to dated Indian & International Standard.
- Tested at NABL Approved Testing Laboratories.
- Power Packed with Latest ADMS & EDL Technologies.



ADMS TECHNOLOGY

The Introduction of the IoT (Internet of Things) has created a platform for the world to showcase interactions between high-tech machines - from connected cars and smart cities to weather monitoring systems and smart homes. The IoT revolution is changing the way people interact with machines. That's why we have introduced our latest Advanced Data Monitoring System technology, also known as ADMS technology in our Servo Voltage Stabilizers.

The Advanced Data Monitoring System (ADMS Technology) is integrated into our intelligent microprocessor control card in the servo voltage stabilizer and provides real-time data about the operation of the servo voltage stabilizer via the customer web server page. It provides the information such as input voltage, output voltage, operating load, frequency, and any errors or warnings that occur during the operation of the servo voltage stabilizer. The collected data is stored in the cloud and can be used for voltage or fault analysis.



EDL TECHNOLOGY

Imagine you are supposed to sit in a room with a notepad and a pen and write down something like the temperature every 30 minutes. That sounds boring and endless, and it's also very error-prone. For scenarios like this, you need a device that captures and stores all the data with the parameters set. We have introduced Error Data Logger (EDL Technology), which is mainly used to systematically observe and record errors and faults in the operation of servo voltage stabilizers. EDL technology is integrated into all of our microprocessor control cards, which store fault data in real time to improve stabilizer performance and operation

DESIGNING

The SERVOKON make Digital Servo Voltage Stabilizers are designed to provide a constant output voltage with an accuracy of $\pm 1\%$ even on regular and highly fluctuation on the Input Voltage side. We use an Intelligent microprocessor control card, which is the brain of the Servo Voltage Stabilizer. The control board detects the input voltage fluctuations and sends a correction command to the Servo Motor, which rotates the carbon brushes either clockwise or counter clockwise on the electrolytically Wound Copper Regulators (Variacs or Dimmers) to obtain a stable Output Voltage. The imported and high-quality graphite carbon we use in our Servo Voltage Stabilizer ensures Excellent Performance.

List of Fittings & Accessories :

- Oil Level Gauge / Indicator.
- Earthing Terminals.
- Name, Rating & Diagram Plate.
- Uni-Directional Flat Wheels.
- Pressed Steel Radiators for ONAN Cooling.
- Oil Filling Hole.
- Lifting Lugs.
- Monogram Plate.
- Cable Box.
- First Filling of Transformer Oil as per IS:335.

Optional Features & Protections :

- High Voltage Cut Off
- Over Load Cut Off
- Single Phase Preventer
- Phase Sequence Corrector
- Change Over or By Pass Provision
- Phase Reversal Cut Off
- Low Voltage Cut Off
- Short Circuit Protection
- Earth Fault Protection
- Surge & Spike Protection

TESTING

The servo voltage stabilizers we manufacture are tested for quality and performance at our in-house test lab. We perform all recommended Routine Test, Type Test and Special Tests in accordance with IS:9815, IS:2026, IS:1180 & relevant Indian & International Standards as applicable. We have also successfully conducted Type Test and Special Test at NABL's accredited Testing Labs and also offer Third Party Inspections (TPI).

APPLICATIONS :

- Air Conditioners Plants
- Medical Equipment
- Offset Printing Presses
- CNC Machines
- Escalators And Elevators
- Industrial And Lighting Equipment
- Shopping Malls And Commercial Complexes
- Homes And Offices, Telecommunications Systems
- Advanced Laboratory Equipment
- Defence Equipment
- Engines
- Cement Plants
- Hotels
- Industries
- Research And Development Facilities
- Data Centres
- Distilleries And Beverages
- Tea Plantations
- Metrological Equipment
- Food Processing Equipment
- Cold Storage, Rubber Industries
- Rice Mills
- Sugar Mills
- RO Plants



ROLLING CONTACT / LINEAR TYPE **SERVO VOLTAGE STABILIZER**

Rolling Contact / Linear Type Servo Voltage Stabilizers detects the unexpected voltage fluctuations of the power supply and reduce or increase the voltage levels with the help of Servo Motors (an important component of servo stabilizers), and then provide a stabilized, high output voltage to the end devices.

To ensure better cooling of the Servo Voltage Stabilizers, Transformer Oil as per IS:335 is used. Oil cooled Servo Voltage Stabilizers are the best solution for industry to avoid voltage fluctuation.

TECHNICAL SPECIFICATIONS					
Standard	Confirms to latest IS:9815, IS:2026, IS:1180 & relevant International Standard or As Applicable				
Capacity	10 KVA to 5000 KVA (Any Special Customised Capacity as per Customer Requirement)				
Correction Method	Rolling Contact / Linear Type On-load Voltage Regulator with Stepless Regulation				
Control Module	Microprocessor based Control Card with EDL Technology & ADMS Technology (Optional)				
Classification	100% Unbalanced / Balanced Supply & 100% Unbalanced / Balanced Loads				
No. Of Phases	Three Phase				
Frequency	50 / 60 Hz $\pm$ 5%				
Mode of Control	Automatic / Manual/ Mechanical				
Load Variation	Admitted from 0 to 100%				
Type of Installation	Indoor / Outdoor (As per customer requirement)				
Cooling	Oil Natural Air Natural (ONAN)				
Type of Oil	Transformer Oil as per IS:335				
Output Voltage	380/400/415 V ($\pm$ 1%) Phase to Phase 220/230/240 V ($\pm$ 1%) Phase to Neutral (Any Special Customised Output Voltage as per Customer Requirement)				
Input Voltage (Phase to Phase)*	150V-460V	280V-460V	300V-460V	340V-460V	360V-460V
Input Voltage (Phase to Neutral)*	90V-270V	160V-270V	170V-270V	200V-270V	210V-270V
	*(Any Special Customised Range as per Customer Requirement)				
Duty Cycle/Life	Continuous 24 Hrs				
Response Time	Less than 20 milliseconds				
Correction Rate	5-15 V/Sec				
Operating Temperature	-15°C to +50°C				
Waveform Distortion	Nil (Negligible)				
Efficiency	As per Indian Standards & International Standards as applicable				
Mounting Arrangement	On Unidirectional Wheels				



Rolling Contact / Linear Type Servo Voltage Regulator

Rolling Contact / Linear Type Voltage Regulator have been specifically designed for a variety of heavy-duty industrial applications. They have become established worldwide as a control method wherever stepless regulation of voltage is required under On-load Conditions. These regulators are wound with heavy copper strips and are suitable for 100% continuous operation. They have an economic life of 15-20 years at full load and require little maintenance throughout their service life.



Regulator with Buck & Boost Transformer



Inner view of Regulator with Carbon Roller Assembly

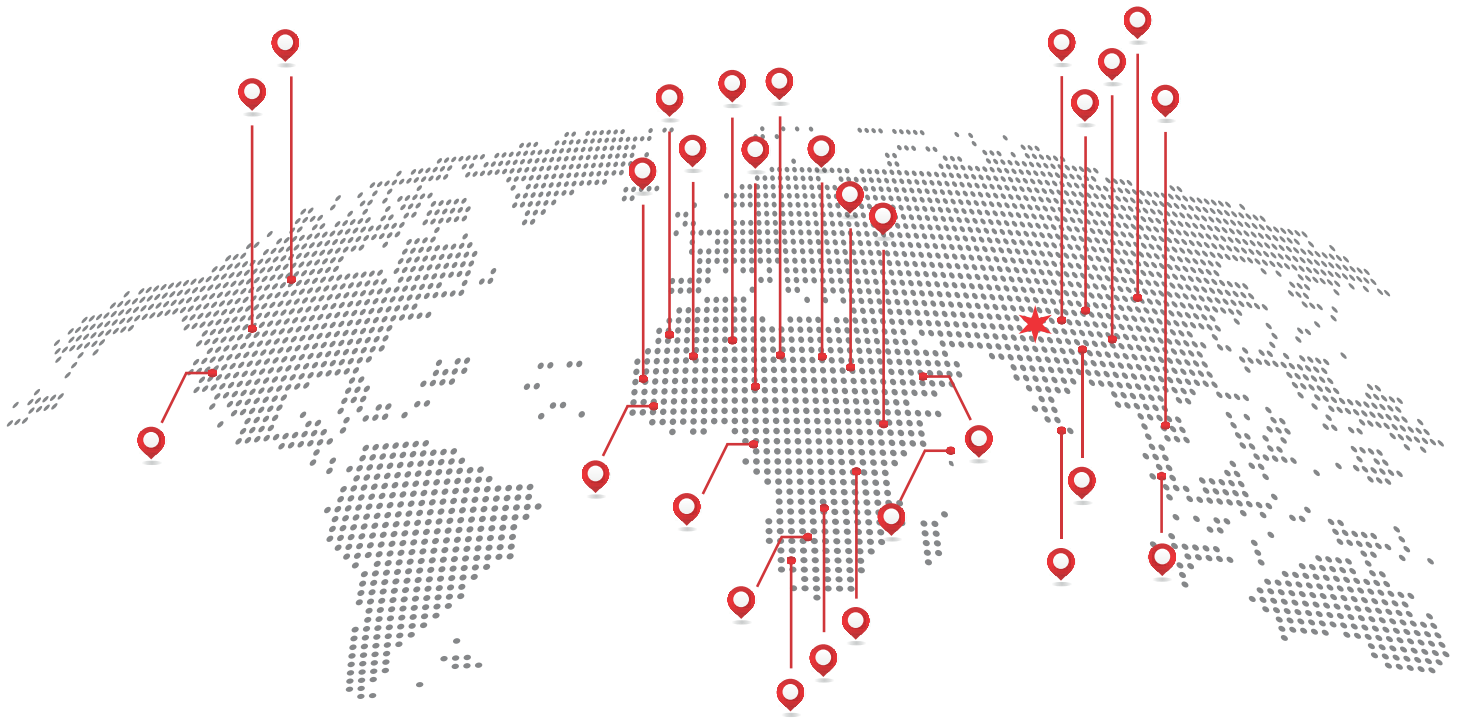


Graphite Carbon Roller

Servokon's Rolling Contact / Linear Type Voltage Stabilizer is manufactured in accordance with IS:9815, IS:2026, IS:1180 or As Applicable and consists of the following major components housed in the same stabilizer tank :

- Rolling Contact / Linear Type (+/-) Voltage Regulator with Carbon Assembly.
- Double wound Step-Down/Step-Up Transformer.
- Control Panel with Intelligent microprocessor control card with EDL technology & ADMS technology (optional).

COMPANY PRESENCE



EXPORTING IN 30+ COUNTRIES



3-TIER DISTRIBUTION NETWORK

400+
Distributors

6000+
Dealers

600+
Team Members

INDIA NETWORK

HO : Noida

Works : Ghaziabad

18+
States Operations

Our Prestigious PRIVATE CLIENTS



Our Prestigious GOVERNMENT CLIENTS





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PRODUCT RANGE

- Power Transformers ▪ Distribution Transformers ▪ Servo Voltage Stabilizers ▪ Rolling Contact/Linear Type Servo Stabilizers
- Automatic Voltage Stabilizers ▪ Online UPS ▪ Solar Power Generation System (SPGS) ▪ HT AVR ▪ Built-in AVR ▪ CVT
- Variable Auto Transformer (Variac) ▪ HT & LT Electrical Panels ▪ Furnace Transformers ▪ Pad Mounted Transformers
- Isolation Transformers ▪ Compact Sub Stations (CSS) ▪ Packaged Sub Stations (PSS) ▪ Step Up & Step Down Transformers
- Special Type of Transformers ▪ Solar Inverter ▪ Solar Battery ▪ Solar Panels ▪ Geysers



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SERVOKON SYSTEMS LIMITED

📍 **HO - Noida | Works : Ghaziabad**

Regional Offices : Delhi | Kanpur | Srinagar | Ghaziabad | Patna | Ranchi | Chandigarh
Guwahati | Hyderabad | Vizag

📞 **For Customer Support** ☎ **1800 21 2001 786** 📱 **+91-9582122121**

For Sales Support ☎ **1800 123 8786**

✉ info@servokon.com

