

SERVOKON[®]

We believe in perfection



ROLLING CONTACT SERVO STABILIZER

AN ISO 9001:2008 CERTIFIED CO.

Upto 5000KVA

About Us

Servokon Systems Ltd. was established in 1990 and since then it is one of the leading manufacturers & exporters of Power Conditioning Products in the country.

Servokon is professionally managed **ISO 9001: 2008 certified** company with a **churning turnover of over 20 crores** having **150 professional and trained personnels** at all levels to meet the commitment to provide highly **reliable, robust and Versatile Products and prominent services.**

We are maintaining a state-of-art testing lab with most **advanced testing facilities.** Our products confirm specifications as per **IS: 9815-94, IEC & BS** and other Indian Standards. Quality and standard of our product has been approved by various National Inspecting Agencies viz. **Engineers India Ltd, (EIL), RITES, Department of Industries, Haryana, SGS, CPWD, DGS&D.** Our brand "**Servokon**" is a registered supplier of the products in various Central & State Govt. Departments viz. **DGS&D Rate Contract, NSIC, MES, PWD, Delhi Jal Board, CPWD** and counting. We have **proved our Existence** through receiving highly renowned awards like "**Rashtriya Ekta Puraskar**" from the **President of India.** Mr Shankar Dayal Sharma and recently awarded as "**No. 1 in Quality Products**" from **Uttarakhand Government** and the list of awards is growing.

Rolling contact type servo stabilizer, hold its potential for units having either L.T. supply or low capacity H.T. connections facing frequent breakdowns/problems due to high or low voltage fluctuations. Our servo stabilizer helps preventing direct exposure of fluctuating voltage and maintaining proper voltage supply as desired.

In some or other way Voltage Fluctuation is a common phenomenon in every industry and keeping in view the current electrical modifications, "stable electricity distribution will take a long way". Normally, Input voltage is low during day time and high during night hours resulting in frequent electrical breakdown and consequently effects the production and overall expenses.

Table below gives approximate quantitative advantages of rolling contact type servo stabilizer at various fluctuation levels:

Input Voltage Variation	% Reduction in Breakdown Possible		Approx. Power Saving Possible	
	Motor Load Below 10 HP	Lighting Load	Below 10 HP	Load
380-400 volts	Nil	Nil	Nil	Nil & Servo Stabilizer Not Required
380-420 volts	5%	10%	3%	5%
380-440 volts	10%	20%	5%	10%
360-460 volts	40%	40%	7%	20%
360-480 volts	60%	60%	10%	30%
340-500 volts	80%	80%	15%	37%

General Specification

Servokon's Rolling contact type servo stabilizer are available in Outdoor/Indoor Naturally Oil/Air Cooled Units with wide input voltage ranges and with Balanced/Unbalanced supplies depending upon voltage condition as per customer's requirement, some of standard technical specifications mentioned below :

Input Voltage	360-460V	340-460V	320-460V	300-480V	280-460V
Efficiency (Approx.)	99.5%	99.3%	99%	98.8%	98.6%

Rating	: Upto 5000 KVA (Oil Type) Upto 1000 KVA (Dry Type)	Correction Speed	: 10-15 v/sec
Output voltage	: 400v /415v +/- 1%, 50 Hz (as required)	Wave form distortion	: Virtually Nil
Cooling	: Naturally Oil Cooled/ Air Cooled Type : Indoor/ Outdoor (as required)	Response time	: Instantaneous
		Duty Cycle	: 24 hrs Continuous on 100% load
		Operating Temperature	: 45°C above ambient
		Mounting	: Uni-directional wheels

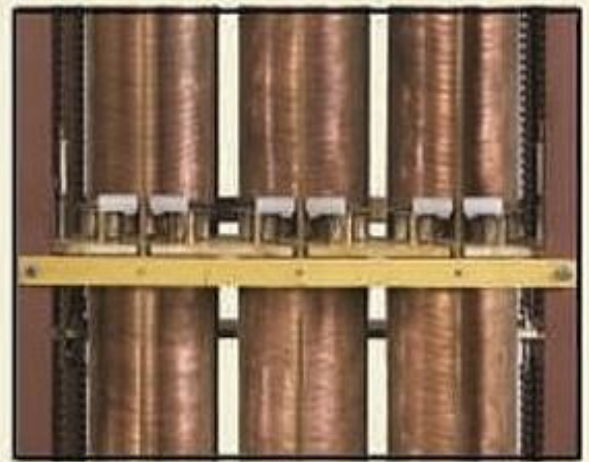
*Non-standard specifications are also considered.

Servokon's Rolling contact servo stabilizer is manufactured as per IS : 9815 and consist of following :

- Voltage regulators having carbon assembly
- Carbon wound Buck n Boost Series Transformer



Regulator with Buck n Boost Transformer



Inner view of Regulator with carbon roller assembly



Graphite Carbon Roller

The most important factor of any electrical equipment is the quality of raw material used and at Servokon, our main aim is to provide superior quality maintenance free products. To assure the same we're using the latest Digital Micro Controlled Circuitry for making operations maintenance free, Imported Low Loss M-4 grade CRGO laminations and "Sterlite" make 99.9% electrolytic copper to minimize the iron-copper losses and maximizing efficiency of our product i.e. more than 98%. Transformer Oil also plays a vital role in a servo stabilizer in controlling temperature rise, efficiency and overall enhancing product's life. Thus, we always use Branded High Quality "A Grade" transformer oil confirming as per IS 335 standards.

ADVANTAGES

- Minimal Power Consumption
- Power Saving (Reduction in Power Bills)
- Reduction in breakdown of electrical / electronic equipments
- Reduction in MDI
- 5 Year Unconditional Guarantee
- Uniform Quality / Lesser Tripping
- Improvement in quality of end products
- Better Efficiency in Plant
- Unmeasurable Benefits
- Depreciation as per income tax act (In India Only)

Payback Period

It has been assessed with long experience & customer's feedback that the payback period of Servokon's Rolling Contact Type Servo Stabilizer is well within 12-24 months depending upon varying input voltage conditions.

HT Automatic Voltage Regulator (HT AVR)

We are well aware of voltage fluctuations in a general industrial setup with a standard Distribution transformer with off load tap changer. High Tension (HT) Voltage is transformed into Low Tension (LT) Voltage in fixed determined ratio i.e. 11Kv/433v, 33Kv/433v, when there is fluctuation on HT we get fluctuations on LT as well. The standard off - circuit tapping of transformers can correct limited voltage variation and cannot regulate the voltage while in 'on Load' conditions.

SERVOKON have developed state of the art technology HT Automatic voltage regulator that operates on load, sleeplessly & gives stabilized voltage on the HT side. The fluctuating voltage from Grid is initially controlled by the HT AVR and then fed to the transformer resulting in the constant H.T. Output within +/- 1% accuracy.

Biggest advantage being its

- Space saving compact design,
- Weather proof Outdoor Unit for corrosive industrial sites,
- Half power Losses compared to separate Transformer & Stabilizer



- Higher efficiency
- Reduction in MDI
- Reduced Installation cost
- Low Maintenance
- Long Service Life

Quality

We ensure that every product manufactured is thoroughly checked and tested at our in-house testing facility as per specified "IS Standards" to meet our commitment to provide highly reliable, robust and versatile products in all respect.

Applications

- Cement Plant • High Rise Buildings • Cold Storages • Tea Estate • Tube Mills • Flour Mills • Rolling Mills • Textile Mills • Paper Mills
- Clubs • Hotel • Rice Shellers • Hospitals • Engineering Units • Rubber Industries • Food Processing Units • Pharmaceutical Units
- Distilleries & Beverages Plant • Sugar Mills • RO Plants • Oil Refineries • Offset Printing Industry



Other Products : Distribution Transformer, HT-Two-In-One-AVR, Online UPS, Variac, Isolation Transformer, Automatic Stabilizer, CVT etc.

SERVOKON SYSTEMS LIMITED

Servokon House, C-13, Radhu Palace Road, Laxmi Nagar, Delhi 110092. M : 09873630786, 09810630786

E-mail: info@servokon.com Website : www.servokon.com

Toll Free No. : 1800 1122 41

SMS "SERVOKON" at 52424