

Protect your  
Equipments from  
*Voltage fluctuations..*

**INSTALL**



**COSMOSTAT**

*We treat voltage....*



## A Brief Introduction

COSMOSTAT, one of the leading quality manufactures of wide range of Servo Voltage Stabilizers, Variac, CVT, Isolation transformer etc... Designed & manufactured by highly trained engineers.

The name trusted all over India since 1994. This trust is built over Shear dedication, hard work & Commitment to quality. The learning acquired over 20 years has been harnessed to offer superior quality product at competitive price.

Our entire product is manufactured as per Indian Standards. Today with more than 2 decade of experience in the manufacturing of Electrical products, COSMOSTAT has grown up in geographical range to become one of the leading manufacturers of Electrical products.



## Quality Policy

COSMOSTAT is committed to satisfy the customer by Supplying the quality products as per customer's specification At reasonable price and will continually improve the effective Of quality improvement system.

Quality has been our major concern and a prime reason for our success in an arena full of competition. To ensure superior quality products, we have our own facility equipped with variety of testing facilities. We carry out several quality control tests and inspections during the various stages of production and prior to the delivery, so as to ensure our products comply with international standards.

## Our Infrastructure

We have our own state of art manufacture unit located at Delhi India. Our Company has a very sound state of the art infrastructure & skilled manpower in following departments.

- Production
- Testing & Quality Control
- Design & development
- After Sale Service.





## Why Us



State of the art  
Manufacturing Facility



Lots of practical  
Experience



Trained  
Manpower



High Quality  
Raw Material



Energy  
Efficient



Customer  
Satisfaction



Short  
Delivery Times



10K+  
Delivery

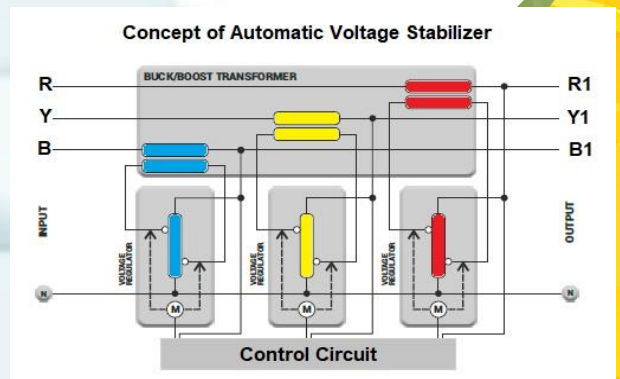


24 x 7  
Service

## Design Expertise

Our team of highly skilled & experience engineers use the latest technology of design the efficient & well engineered products.

We use modern design techniques to get high precision equipments to meet the requirement of IS9815:1994 standards.





## Introduction of Products

COSMOSTAT servo voltage stabilizer is the proven solution to all above problems caused by voltage fluctuations & unbalance. It saves your costly equipments & processes from detrimental effects of fluctuating & unbalanced voltage & gives you mental peace to concentrate on more important business issues.

COSMOSTAT servo voltage stabilizer can substantially add to your bottom-line by saving up to 20% power, depending on the incoming power quality. COSMOSTAT 3-phase stabilizers are manufactured using individual controls for each phase thus making it suitable for unbalanced input voltage and unbalanced load current. Balance type unit can also be supplied on demand.

## Effects of Voltage Unbalance

The main effect of voltage unbalance between phases is damage to motor due to excessive heat. Voltage unbalance can create a current unbalance of 6 to 10 times the magnitude of voltage unbalance. Consequently this current unbalance creates heat in the motor winding that breaks down motor insulation causing cumulative and permanent damage to the motor. Figure shows the percentage of temperature rise as related to voltage unbalance.

The relationship is exponential & approximately increases by twice the square of the voltage unbalance.

In order to avoid frequent tripping of overload relays the operator sets the relays at higher than actual limits to continue the production. The motors cannot withstand this higher current for long time and in most cases the motor burns out and also damages controlling relays/contactors.

The most suitable option is to use servo stabilizers having separate control system on each phase (Unbalance type). This will take care of both unbalanced and balanced input supply providing balanced 3-phase supply at output.

## Benefits of Servo Stabilizer

Maximum load in industries consist of motors, heaters & compressors. At high voltage they draw higher current thus increasing the power Consumption & MDI and reducing the power factor. Electrical equipments are designed for 230 Volts (1-Ph) i.e. 400 Volts (3-Ph) and have maximum efficiency at this voltage. These heavy electrical equipments draw considerably more power at higher voltage thus increasing the electricity bill of the industry. Similarly in the case of bulbs & tubes the percentages increase of power consumption will be more than double the percentage increase of voltage. The higher voltage also results into higher losses causing higher breakdown of Motors Lightings & all other electrical equipments.

Servo stabilizer can give saving of up to 15% on power consumption & reduction in breakdown of electrical equipments up to 80% if voltage supply is above the recommended voltage and higher efficiency of your equipments if voltage supply is lower than the recommended voltage.



**Air Cooled Digital Servo Stabilizer**

We offer air cooled servo voltage stabilizer in both single phase & three phase supplies. Normally these air cooled servo stabilizer are used with individual sensitive electrical / electronic equipments.



**Single Phase**



**Three Phase**

**Oil Cooled Digital Servo Stabilizer**

We offer oil cooled digital which give you complete voltage supply solution for all type of industrial, office & residential setup. Days are gone when individual stabilizer were installed with every equipment. Now we are specially customized single servo stabilizer that will cater complete electrical load connected, Protect & stabilize the whole voltage supply with in accuracy  $\pm 1\%$ .



**Oil Cooled Servo Stabilizer**

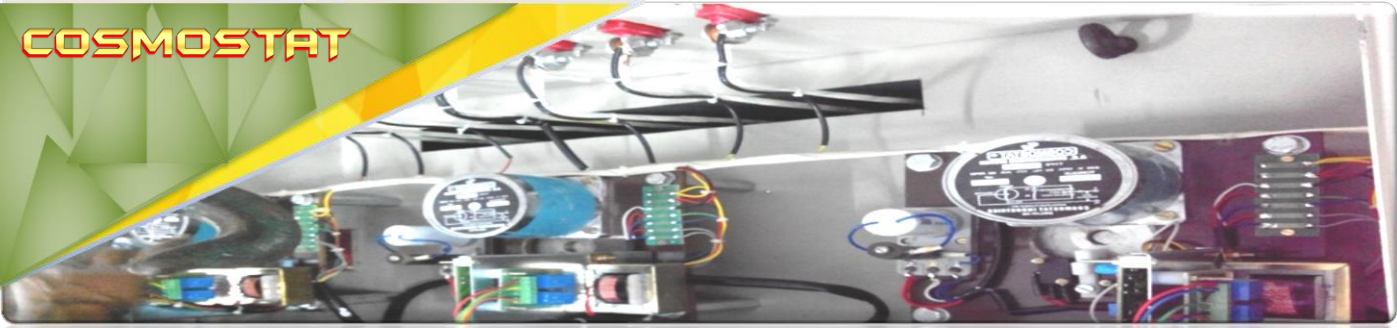
**Superior features**

- Wide Input range from 110-280v
- Latest Digital Controller
- Highly quality Raw Material
- Save Power & Reduce MDI
- Long life with negotiable maintenance

**Quality Assurance**

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 and versatile products in all respect.

\*Actual Product may vary



## Technical Specifications

❖ Standard	Confirm to latest IS-9815 & IS 2026
❖ Rating	Up to 2000 KVA
❖ Input Voltage Ranges	Single phase: 160-260V, 140-280V, 110-270V (Can be customized) Three Phase: 280-460V, 240-480V, 200-470V (Can be customized)
❖ Output Voltage ranges	Single Phase: 220/230/240 ± 1% Three Phase: 380/400/415 ± 1%
❖ Input Frequency	47 – 53 Hz
❖ Response Time	Instantaneous (mili sec)
❖ Correction Speed	10 – 60V/sec (as required)
❖ Correction Method	Step less correction
❖ Cooling	Natural Air / Natural Oil
❖ Efficiency	More than 98%
❖ Duty Cycle	Continuous 24 Hrs.
❖ Operation	Auto/Manual
❖ Suitability	Suitable for 100% Unbalanced/Balanced Supply & 100% Unbalanced/Balanced Loads



## Optional Accessories

❖ High Voltage Cut off	❖ Low Voltage Cut Off
❖ Over Load & Short circuit protection	❖ Earth fault Protection
❖ Surge and RF Suppression System	❖ Ammeter with CT monitor the connected load
❖ Single Phase Prevention (In Three Phase) Shut the stabilizer in case any phase fails	❖ Change Over Switch to by pass the stabilizer and use main voltage directly.

## Applications

❖ Air conditioning plants	❖ Medical Equipments	❖ Offset Printing Machine
❖ CNC Machine	❖ Cold Storage plants	❖ Escalators & Elevators
❖ Industrial & Lighting Loads	❖ Mall & Commercial Complex	❖ Residence & Office
❖ Telecommunication System	❖ Laboratory	❖ Defense Equipments
❖ Cement Plants	❖ Hotel	❖ Data Centers
❖ Distilleries & Beverages	❖ Food Processing Units	❖ Cold Storage
❖ Rubber Industries	❖ Rice Mills	❖ Sugar Mills

We are proud to provide the following Clients with our efficient products



STATE OF ART MANUFACTURING FACILITIES



HIGH QUALITY RAW MATERIAL



LOTS OF EXPERIENCE



TEST BEFORE DISPATCH



SHORT DELIVERY TIME



24 X 7 SERVICE SUPPORT



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