

ATULYA TRANSFORMERS AND ELECTRICALS

REDUCE FAILURE RATE OF ELECTRICAL EQUIPMENTS & SAVE ENERGY

By Installing

ATULYA'S

AUTOMATIC VOLTAGE CONTROLLER

(An ISO 9001 : 2015 Certified Company)

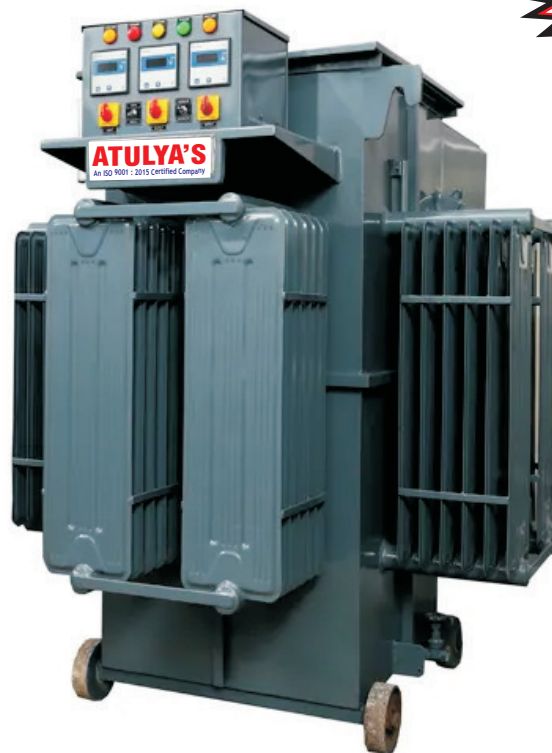
5 Years
Guarantee

18 Months
Guarantee



(up to 2000 KVA)

DISTRIBUTION TRANSFORMERS



(100 KVA TO 3500 KVA)

**AUTOMATIC VOLTAGE
CONTROLLER**



(30 KVA TO 75 KVA)

**CAPACITY :
(30 TO 3500 KVA)**

• Stabilizers • Rectifiers • Transformers • Domestic Voltage Stabilizers

COMPANY PROFILE

Atulya Transformers and Electricals an ISO 9001 :2015 certified company established under the able leadership of **Mr Vikash Kumar (B .Tech Electrical Engineer)**. We have our own state -of -the art manufacturing unit located at Faridabad Haryana. Atulya is one of the emerging name in the field of manufacturers and suppliers of **Servo controlled automatic voltage controller (stabilizer) up to 3500 KVA**, electroplating rectifier equipments, digital /analogue domestic voltage stabilizer, special purpose Transformer and oil cooled distribution transformer (H.T) **(upto 2000 KVA)**.

Atulya Transformers and Electricals professional engaged in designs, manufacturer and supplies customized products" to meet the wide range of global market and ensure support services to enhance customers satisfaction.

INTRODUCTION

Voltage fluctuation is a common phenomenon across every part of our country. The industrial units generally faces the problem of low and high voltage. Most of the industrial load is of Motors.

Electric motor draw high current at low &high voltage. This high current affects the electric motors and produces higher losses in it which further causes premature failure of winding. The industrial units having higher failure rate of electrical equipments such as bulbs, chokes, starter, contactor coil, motors, tubes is also due to higher voltages.

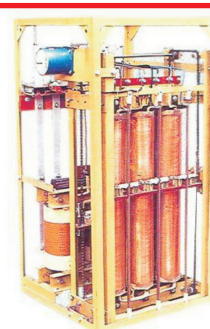
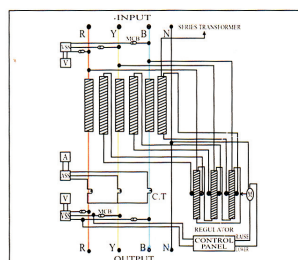
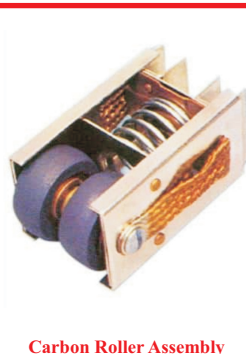
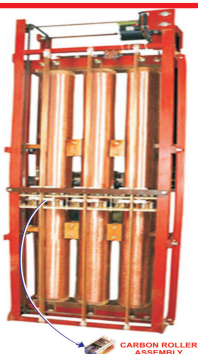
WHO NEEDS A STABILIZER

If the input voltage is above 230 volts single phase/400 volts three phase even for a few hours a day then you definitely need to install a stabilizer.

The table below gives approximate quantitative advantages of Automatic Voltage Controller at various voltage fluctuation levels.

INPUT VOLTAGE VARIATION	POSSIBLE % REDUCTION IN BREAKDOWN		POSSIBLE APPX. POWER SAVING	
	Motor Load below 10 hp	Lighting Load	Motor Load below 10 hp	Lighting Load
380 - 400 volts	Nil	Nil	Nil	Nil & no servo stabilizer required
400 - 420 volts	5%	10%	3%	5%
420 - 440 volts	10%	20%	5%	10%
440 - 460 volts	40%	40%	7%	20%
460 - 480 volts	60%	60%	10%	30%

By maintaining 230 volt single phase and 400 volt 3 phase output through automatic voltage controller there will be definite saving in Power bill & reduction in failure rate of electrical equipments.



BENEFITS OF INSTALLING, AVC :

- 1.Reduction in Breakdown of Electrical Equipments (Upto 80%).
2. Savings in Electricity Costs (up to 30% on lighting load).
3. Reduction in MDI by 10-15%.
4. Payback period is 12-18 months.
- 5.Improvement in Power Factor.
6. Uniform quality of end product & Improved Productivity of the plant.
7. Depreciation 40% from Income Tax (for energy saving devices).

TECHNICAL SPECIFICATIONS :

Atulya's Servo Voltage Stabilizers are available in extensive range and different models.

These three phase models are suitable for both balanced & unbalanced supply / loads.

The standard models are as per following specifications :

Capacity	30 KVA to 3500 KVA	
Input Voltage	350-450, 340-460, 330-470, 320-480, 300-500	
Efficiency	99.5% 99% 98.7% 98.5% 98%	
Output Voltage	400 Volt + / - 1%, 3-Phase, 50 Hz	
Technology	linear +/- vertical rolling contact type on-load voltage regulator with stepless regulations.	
No. Of Phases	3-Phase	
Frequency	50 Hz	
Cooling	Natural Oil Cooled (upto 3500 KVA)	
Application	Indoor/ Outdoor As per site requirement	
Type	BALANCE (Common Control for All 3 Phases and suitable for balance input supply and upto 40% unbalanced loads.	UNBALANCE Individual phase control Suitable for unbalanced input supply / loads.
Duty Cycle	100% Continuos.	
Mounting	On unidirectional wheels.	
Correction Rate	6-15 V/sec (upto 500 kv) 3-4 V/sec (Above 500 KVA).	
Response Time	Less than 10 milliseconds.	
Wave Form Distortion	Virtually Nil	
Temp. Rise	Maxm 35 Deg. C Rise above ambient temp. at full load.	
Terminations	Aluminum bus bars are used for both input and output housed in same junction box.	

PAY BACK PERIOD (higher The Input Voltage Shorter Will Be The Payback Period)

Having its high efficiency & other benefits the payback period for ATULYA Make AVC is between (12-18 months) depends Upon input Voltage fluctuation & no of working hours.

Description of Atulya's Make Automatic Voltage Controller & its Technology

Atulya's Servo Stabilizer primarily consists of the following :

- Linear type continuously variable voltage regulator.
- Double wound buck-boost transformer.
- Control Module for sensing and controlling in the Auto Mode.

The regulator and buck boost transformer are oil cooled. The Radiators are provided for effective cooling. The Core is made up of CRGO silicon steel laminations. Which keep losses to the minimum and they are wound with Electrolytic Grade Copper to Minimize the losses, vacuum impregnated & oven dried as per IS Standard.

TECHNOLOGY :

In our equipment especially in Servo voltage stabilizer we are using rolling contact type regulator wound with a heavy section of copper strip to minimize the losses and also to improve the efficiency of the equipment. They have an economic life of 15 to 20 years and are also suitable for 100% continuous duty cycle.

COMPARISON BETWEEN ATULYA'S & CONVENTIONAL AUTOMATIC VOLTAGE CONTROLLER

ATULYA'S LINEAR VOLTAGE REGULATOR WITH CARBON ROLLERS	CONVENTIONAL DIMMERSTAT TYPE REGULATOR WITH CARBON BRUSH
1. Power Consumption is 0.5 to 1.5%.	1. Power Consumption is 3 to 7%.
2. Suitable for 100% continuous duty cycle.	2. Suitable only for 50 to 60% continuous duty cycle.
3. Life at full load is 15-20 years.	3. Maximum Life is 2-3 years at full load.
4. Negligible Maintenance throughout life	4. Require Frequent Maintenance.
5. Five Years Unconditional Guarantee	5. Normally One Year Warranty.
6. Compact Construction.	6. Very bulky in size.

AVC APPLICATION :

Though Stabilizers are used for a variety of Application as it is more suitable for 24 hours working plant to avoid breakdown caused by voltage fluctuation.

Cement Plants	Rubber Industries	Footwear And Leather Units	Textile Mills
High Rise Buildings	Oil & Vanaspati Plants	Food Processing Units	Hotels
Call Center	Engineering Units	Cold Storage	Clubs
Tube Mills	Nursing Home	Paper Mills	Rolling Mills

OTHER ATULYA'S PRODUCTS

AUTOMATIC VOLTAGE CONTROLLERS	DIGITAL DOMESTIC VOLTAGE STABILIZER
SPECIAL PURPOSE TRANSFORMERS	DISTRIBUTION TRANSFORMER
RECTIFIER EQUIPMENTS	



Automatic Voltage Controller
30 KVA to 3500 KVA



Silicon Power Rectifier
0 to 100 V D.C. & upto 10000 Amps



Ultra Isolation Transformer
upto 1000 KVA



Oil Cooled Distribution Transformer
upto 2000 KVA



Domestic Digital
Voltage Stabilizer



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(AN ISO 9001:2015 Certified Company)

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