

ATULYA TRANSFORMERS & ELECTRICALS

SILICON POWER RECTIFIERS

(An ISO 9001 : 2015 Certified Company)



5 Years
Guarantee

RANGE :
up to 10000 AMPS. (DC)

★ ATULYA'S SILICON POWER RECTIFIERS ARE BELIEVE FOR THEIR ENERGY
EFFICIENT AND LONG LIFE FOR NUMBER OF ELECTROCHEMICAL APPLICATIONS.

● 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 2500 KVA, electroplating rectifier equipments, digital /analogue domestic voltage stabilizer, special purpose Transformer and oil cooled distribution transformer (H.T).

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

Rectifier Equipments are designed for 3-phase 50HZ AC input supply and are suitable for operations at any voltage between 380 to 440 volts covering a wide range of voltage fluctuation.

Atulya's rectifiers are designed for continuous rated current with sufficient margin of safety and are capable of working at 100% load factor.

FEATURES OF ATULYA'S RECTIFIER:

- ✚ Atulya's Rectifier equipments are wound with electrolytic prime grade copper strip to minimize power losses, in comparison to Aluminium Conductor used by many other manufacturers. Our equipments are designed as per capacity and are suitable for marginal over loading conditions.
- ✚ We use Vertical rolling contact type on load +/- voltage regulator wound with heavy section of copper strips Suitable for 100% continuous duty cycle or industrial applications, in comparison to conventional wire wound. The copper section is 3 times more than conventional dimmer/thyristor controlled rectifiers, and hence losses are less than 20% compared to the latter.
- ✚ **DIODES :-** We use best quality & reputed make silicon diodes that are tested in our house, diodes with 50% more in capacity is used for better durability.
- ✚ **LAMINATED CORE :-** We use CRGO laminated core which have minimum power losses and result in better efficiency of equipments.
- ✚ **PAINT :-** We are painting the equipment with EPOXY paint which is resistant to acidic environment.
- ✚ **METER :-** We use reputed make AE/RISHAB make DC meters only which are very accurate and durable.

ADVANTAGES :

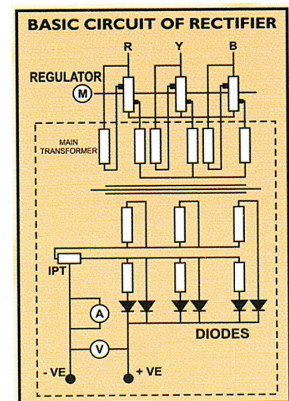
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|---------------------------------------|------------------------------|
| ✚ Step-less On-Load Voltage Regulator | ✚ High Efficiency |
| ✚ Designed for 100% Continuous Load | ✚ Virtually zero maintenance |
| ✚ Nil Waveform distortion | |

TECHNICAL SPECIFICATION :

Input Voltage	380-440 Volts, 3-Phase, 50HZ, AC supply	
Output Voltage	from zero to rated maximum DC volts	
Output Current	from zero to rated maximum DC current	
Temperature Rise	less than 35 degrees Celsius above ambient	
Efficiency	12 V Rectifier 82%	100 V Rectifier 94%
	24 V Rectifier 90%	
Ripple Content	Less than 5%	
Insulation	'A' Class for Oil Cooled.	

APPLICATION :

1. Electroplating (Chrome plating, Hard Chrome Plating, Zinc Plating, Nickel Plating, Copper Plating, Gold Plating, Silver Plating etc).
2. Hydrogenation, Electrolysis.
3. Copper, Aluminum & Zinc Refining.
4. Eching.
5. Cleaning.
6. Anodising.
7. Other Electrochemical process.



The Standard Equipment consist of Following :

- Linear rolling contact type ON-LOAD Voltage Regulator (+/-). Operable electrically with the help of raise/lower push button and a step-synch motor or manually with help of "T" Handle.
- Copper Wound delta/Star-Delta step down Transformer as per IS 1180.
- Inter phase transformer (Copper Wound).
- Thermometer pocket.
- Oil fill plate.
- Oil level gauge.
- Oil drain out valve.
- Lifting lugs.
- Wheels for uni-directional movement.
- Radiators.
- NAME Plate with complete specification.
- Earthing terminals.
- Indicator for R Y B input.
- OIL FOR FIRST FILLING (Incl. in Price)**



GUARANTEE :

ATULYA'S Rectifiers equipments are covered by **FIVE YEARS GUARANTEE** against any manufacturing defect from the date of supply. we do not charge anything for the visits, spare parts and labor during the guarantee period.

Note : We use reputed make Diodes but still it is not covered under guarantee period. as diodes are not prone to ageing and get damaged due to short circuit on the output side.

OPTIONAL FEATURES:

We can provide optional accessories with rectifiers equipments in Control Panel only in ordered rectifiers. These optional accessories are covered by such warranty as extended by the OEM I.e, upto maximum one year.

PROTECTION FEATURES	APPLICATIONS
1. Constant Voltage Controller (CVC)	The CVC will automatically maintain a constant output voltage irrespective of input voltage variation.
2. Constant Current Controller (CCC)	The CCC will automatically maintain a constant output current irrespective of input voltage variation.
3. DC Overload Trip System	The DC overload trip instrument will sense the signal from the output of the rectifiers and trip the main contactor in case of overshooting the set range.
4. Zero Run Down System	with the help of zero rundown system, once the rectifier trips or switched off while working it will automatically start from 0 volts when restarted.
5. Signal Isolators	It can be used to avoid the milli-volt drop of the Ammeter/Voltmeter signals. The Isolators can give output in mill volts/milli amps.

OTHER ATULYA'S PRODUCTS

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



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