

Rectifier (Silicon Rectifier and Thyristor Controlled Rectifier)

Rectifier is an Equipment that converts AC into DC supply. Rajdeep Industries make silicon Rectifier are widely used in Electroplating, Anodizing, Hydrogenation and all other electrochemical process. These are tailor made, covering a wide range from 25 Amps to 15000 Amps at different output DC voltage as per requirements.

SALIENT FEATURES

- Designed for 100% continues duty cycle.
- Compact design for space saving.
- Lesser power consumption.
- Negligible Maintenance.
- Tested at each and every stage of manufacturing.
- Liberal design & rigorous testing of the equipment enable the trouble free service for long life.

ADVANTAGE :

Thyristorised Controlled Rectifier has main advantages over silicon controlled rectifier as follows :

1. Maintenance free.
2. Constant voltage and constant current within variation 10% on input side voltage.
3. Over load limit setting.
4. Compact in size.

On Load Volts	Current in Amperes								
8	250	500	750	1000	1500	2000	3000	upto	10000
12	250	500	750	1000	1500	2000	3000	upto	10000
16	250	500	750	1000	1500	2000	3000	upto	10000
24	250	500	750	1000	1500	2000	3000	upto	10000

OUR OTHER PRODUCT RANGE :

- New range of Micro processor based Servo Stabilizer.
- Electroplating Rectifier, D.C. Motor controlled panel. (Dimmer and thyristor controlled) • Transformer (Low Tension).
- Continuous Variable Voltage Auto Transformer (Dimmer).
- Furnace Transformer, • Battery Charger,
- Distribution & Control Panels.
- DC Power Source, • Invertor and UPS,

RAJDEEP INDUSTRIES

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RAJDEEP Industries

A House of Quality Products



Servo Controlled Voltage Stabilizer, Rectifier and Equipments (Thyristorised & Dimmer Controlled)
Transformer, Auto Transformers (2A to 600 Amps.)
Electrical Control Panel, Invertor & UPS

COMPANY PROFILE :

The arrival of Computerization, Information Technology, Tele Communication and Automation in India made a requirement of good quality power controlling equipments to support and protect these sophisticated equipments in erratic power conditions as well as problem created by these equipments on power lines.

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started with the aim of manufacturing reliable and good quality products like Servo Control Voltage Stabilizer, Electroplating Rectifiers (Dimmer controlled and thyristor controlled) D.C. Motor Control Panels, All types of Transformers, Varipac (Variable Auto Transformers from 2 Amps. to 1000 Amps.), Battery charges, A.C. Control Panels, to suit all types of conditions and successfully supplied all the products to various satisfied customers across India. List of some customers are attached for your kind perusal.

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have acquired latest technology to manufacture its products which result in maintaining productivity of valuable equipments and protect to give support to our esteemed customers.

RAJDEEP MAKE SERVO CONTROLLED VOLTAGE STABILIZER

To protect your costly machine from getting damaged due to fluctuating supply voltage, we Rajdeep Industries provides servo control voltage stabilizer to keep the load equipment isolated from the fluctuating supply voltage & gives the steady supply at its output with in specified range of input band of voltage.

Basic Functioning of Servo Controlled Voltage Stabilizer

Operation : The Voltage Stabilizer works on a simple principle of adding or a subtracting a voltage to the supply voltage in appropriate quantity to correct it to the required level. This voltage to be added or subtracted is obtained from the mains itself, using a DIMMER - a continuously variable voltage auto Transformer, driven by a servo motor under the control of voltage sensing relay. This senses the output voltage continuously, compare with a highly stable reference and directs the drive motor to correct the output voltage to the set level.

GENERAL SPECIFICATION :

Input Voltage Range	:	300 - 460V AC 3 Ph 50Hz Phase to Phase
Other Input Range	:	320-460V AC / 340-480V AC 360-460V AC & 340-500V 3Ph 50Hz/60Hz
Output Voltage (3 Ph)	:	400 V AC / 415V AC +/- 1%
Output Voltage (1 Ph)	:	230 V AC / 240V AC +/- 1%
System	:	Unbalanced 4 wire : R Y B N
Connection	:	Star
Operating Frequency	:	47 to 53 Hz
Output Voltage Regulation	:	+/- 1% (No Load)
Output Voltage Regulation	:	+/- 1% (Full Load)
Overload Capacity	:	120%
Correction Rate	:	25V/Sec with AC Servo Motor
Wave form Distortion	:	Nil
Output Wave form	:	True Reproduction of Input Class - "B"
Normal Operation Temperature	:	0 C to 45 C
Climate Conditions	:	90% Rh Max. Non Condensing at 35 C
Type of Cooling	:	Natural air cooled up to 100 Kva and above oil cooled up to 1000 Kva
Mode of System	:	Fully automatic / Manual
System construction	:	As per IS : 9815



PROTECTIONS : Under voltage, Over voltage, Single Phasing, Overload and short circuit protection will be provided through MCCB.

PANEL CONTROLS

Input/Output Selector switch
Auto / Manual Toggle switch
Increase / decrease switch to control the output voltage in Manual mode
Volts adjust to set required output voltage in auto mode

PANEL INDICATIONS

Mains ON, Output ON
Under Volt, Over Volt

PANEL METERS

Voltmeter with selector switch to read Input / Output voltages.
Ammeter with selector switch (From 30 K V A) 3 Ph onwards).



Rajdeep AC Stabilizers conform to IS 9815

SALIENT FEATURES

Exceptionally reliable Micro Processor Bases control with high accuracy & LCD Display for metering.
Free from overshooting.
High Voltage correction speed.
Plug in type interchangeable main control card.
Provision of Auto as well as manual control mode of front panel.
Zero wave from distortion.
Use of CRGO and adequate copper for high efficiency.
Unaffected performance due to variation in supply frequency of range +/- 3 Hz.
Ensuring no phase shift.
preset to set the required output voltage.
Custom built and flexible rating of servo as per requirement.
Over, under voltage & Over load (optional) at output side.
Phase failure protection of incoming supply.
All protections with the time delay of 8-10 seconds to trip the switch gear device.
Radiator for the high rating servo stabilizer.
Availability of air cooled model upto to 100 K V A rating

APPLICATIONS

- CNC Machines
- Bio Medical Equipments
- Printing Machineries
- Large Computer Installations
- Telecommunications Equipments
- Scientific Equipments
- Textiles Machineries
- Cell Phone Networks.
- Garments Equipments and many more.....

