SERVING EXCELLENCY

SINCE 1987

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WAVE

POWER EQUIPMENTS

(An ISO 9001:2015 Co.)

RECTIFIERS
TRANSFORMERS
SERVO STABILIZERS

WAVE POWER EQUIPMENTS was time-honored in the year 1987, and since then the company's principle activities are catering to the needs of the customer with a variety of products in the make name **WAVE's**.

Manufacturere **Exporter** **Supplier** **Service Provider**

WAVE POWER EQUIPMENTS (An ISO 9001:2015 Co.)

www.wavepowerequipments.com

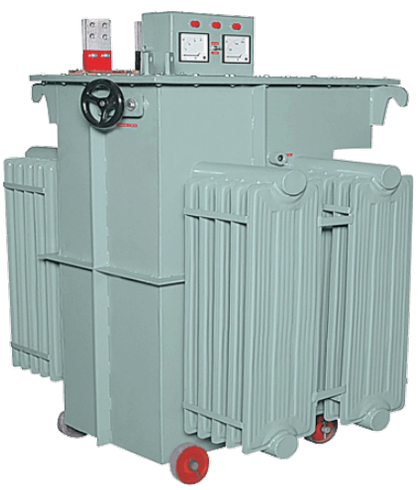
ABOUT US

At **WAVE'**s we earn our customers trust and satisfaction by manufacturing the high quality of rectifiers and servo stabilizers. All of our products are designed for reliable performance, easy maintenance and maximum energy efficiency.

Prompt and dependable customer service, ISO 9001: 2015 quality assurance and engineering support. All contribute to the value our customers have come to expect. We are committed to implementing and maintaining the highest quality standard. In short, our aim for excellence in everything we do.

RECTIFIER TRANSFORMER UNIT FOR ELECTROPLATING & ANODIZING

A Variable voltage D.C., source is required for electro deposition of electroplating, anodizing etc. The various rating of voltage & current required for the process depends upon the metal to be deposited adopted.



WAVE's Rectifier are designed in standard voltages of 8v to 100v in current rating varying 300 Amps to 25000 Amps.

BRIEF SPECIFICATIONS:

A.C. INPUT: Rectifiers are designed to work on 415v A.C. 3 Ph. 50 Hz. Supply and suitable for an input range of 380v to 450v. Units of very small capacities namely 8v/ 12v/ 16v D.C. up to 500 Amp rating can also be supplied to work on an input voltage of 240v A.C., 1 ph. 50 Hz. Supply.

D.C. OUTPUT:

D.C. OUTPUT is continuously adjustable from zero to full rated value from no load to full rated current, over the input range as described. All 3 Phase unites have low ripple of less than 5% and are suitable for all kinds of metal finishing.

MAIN TRANSFORMER:

1. The Transformers are of class **'A'** insulation and conform to IS 2036 in general.
2. The laminations are used CRGO Silicon low loss type.
3. The coils are impregnated oven baked varnish.
4. This will be double wound transformer consisting of electrolytic grade copper winding.

SILICON RECTIFIER:

The Rectifier is assembled by using silicon diodes, mounted on heat sinks and connected in full wave circuits. Individual RC components are used for hole storage protection. The diode assembly is always selected to have at least 40% extra rating above the maximum output current.

VOLTAGE REGULATOR:

In order to facilitate voltage variation from zero onwards WAVE's variable auto transformers are used as independent units, or some times, accommodated in transformer tank. Motorization is provided as an optional feature.

Advantages of WAVE's Rectifiers:

- Step-less On Load Voltage Regulator
- Designed for 100% continuous load
- Nil Waveform distortion
- High Efficiency of up to 97%
- Virtually zero maintenance

OPTIONAL FEATURES:

- Remote switching on by using contactors and bimetal over load relay.
- Push button operation by motorization of the variable auto transformer.
- Constant voltage or constant current features using electronic circuits.
- Timers, time totalizers, ampere hour meters, etc.

AUTOMATIC SERVO VOLTAGE STABILIZERS

All electrically operated equipments are designed for a certain Supply Voltage. If they operate on supply voltage lower/higher than Rated volts the end result is loss to the equipment. There are many ways in which the function can be brought under control, at the customer's end. The servo voltage stabilizers are the best because of:

- Over load capacity for short time.
- No wave form distortion.
- High speed of voltage correction.
- They are unaffected by load power factor.
- Negligible losses whether at no load or full load.
- Simple in design and easy to understand

ADVANTAGES

- Energy saving ranging from 5% to 10%.
- Reduced Electricity Bill.
- Wear & Tear of the carbon is minimal due to friction less and smooth surface of the winding track and rolling mechanism of the carbon roller.
- Better current carrying conductor as copper strip instead of copper wire.
- Low No Load Losses due to use of pure CRGO core.
- Inspection of Carbon Brush/Roller can be done without taking out the whole assembly.
- In case of Failure of the automatic controller, the operation can be shifted to motor control, in case of failure of motor; the same can be shifted to manual mode.
- Efficiency **WAVE's** L.T. Automatic Servo Voltage Stabilizer is approx. 98% to 99%.
- Installation can be done for Indoor services.
- Life of **WAVE's** L.T. Automatic Servo Voltage Stabilizer under normal working conditions is 15 – 20 Years.

PRINCIPLE OF OPERATION

WAVE's Voltage stabilizer employs a motor-Driven auto variable transformer feeding the primary winding of a transformer. The secondary winding of power transformer is connected in series between incoming supply & load. The voltage induced on secondary will be added or subtracted from the input voltage depending on its polarity.

A Solid state electronic control unit sense the output voltage and operate the servo motor in suitable direction to correct the output voltage by changing the carbon brush position on auto variable transformer.

SALIENT FEATURES OF STABILIZER

In WAVE's Stabilizers Digital Voltmeter with selection Switch provided to show Input/ Output Voltage with ON/OFF Switch to read input & output Voltage.

- Alarm Lamp Switch Light up when the input voltage exceeds the limits of specified range.
- A Switch is provided to change from automatic voltage correcting action to manual.
- Output adjustable Switch is provided for voltage adjustment from 380v to 415v in 3 Ø and 200v to 240v in 1 Ø fully automatic solid state control to keep output level within ±1 % accuracy. Push button switch Marked RAIS or LOWER is provided to change the output voltage in manual position.

MEMBER OF MULTILATERAL RECOGNITION ARRANGEMENT IAF

MSME MICRO, SMALL & MEDIUM ENTERPRISES सूक्ष्म, लघु एवं मध्यम उद्यम

CONTACT US

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