

Distribution Transformer

MANGAL

ENGINEERS AND CONSULTANTS

MANUFACTURERS OF :

- Servo Stabilizers
- Distribution Transformers
- Rectifiers
- Regulators
- Special Purpose Transformers
- Special Purpose Electrical Supplies
- Electric Panels



Automatic Voltage Controller



AN ISO 9001 : 2008 CERTIFIED CO.



PRODUCT RANGE

● Automatic Voltage Controller : upto 5 MVA

- Servo Stabilizer - 3 Phase / 1 Phase
- H.T. 2 in 1 Transformer cum Stabilizer
- H.T. Automatic Voltage Stabilizer

● Transformers : upto 5 MVA

- Distribution Transformers
- Power Transformers
- Transformers with OLTC
- Furnace Transformers
- Earthing Transformers
- Isolation / Ultra Isolation Transformers
- Variable Transformers
- Step up / Step down Transformers
- Dry Type Transformers
- Balancing Transformers
- Butt Welding Transformers
- Dual Seam Welding Transformers
- Special Purpose Transformers

● Electrical Supplies

- ESR Supplies
- H.T. / L.T. Supplies
- D.C. Power Supplies
- 1Phase/ 2 Phase / 3 Phase Variable Supplies
- Motorized Voltage Regulators
- Electrical Drives

● Rectifiers : 0 - 1000 Volts, 0 - 40000 Amps.

- DC Rectifiers
- Plating Rectifiers
- Furnace Rectifiers
- Refining Rectifiers
- Electrolysis Rectifiers
- Anodizing Rectifiers
- Welding Rectifiers

● Panels

- H.T. / L.T. Panels
- APFC Panels
- Distribution Panels
- MCC Panels
- PCC Panels



AUTOMATIC VOLTAGE CONTROLLER



5 Years
Guarantee

Servo Stabilizer :
Upto 5000 KVA



Inner view of Stabilizer

APPLICATIONS

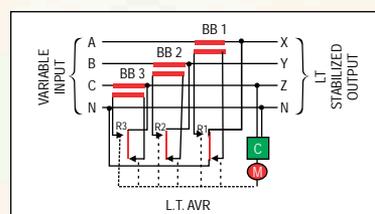
- Cement Plants
- Flour Mills
- Engineering Units
- Hospitals
- Tea Estates
- Pharmaceutical Units
- Cold Storages
- Rolling Mills
- Nursing Homes
- Textiles Mills
- Paper Mills
- Rice Shellers
- Rubber Industries
- Clubs
- Food Processing Units
- Oil & Vanaspati Plants
- High Rise Buildings
- Tube Mills
- Footwear & Leather Units
- Distilleries & Beverages
- Hotels & Restaurants
- Glass Industries
- Chemical Industries
- Testing and Research Stations



AVC (Unbalanced Type)

ADVANTAGES

- Reduction in Breakdown of Electrical Equipments
- Reduction in MDI
- Energy Saving
- Improvement in Power Factor
- Uniform Quality of End Product
- Onload Stepless voltage variation
- Long Service Life
- High Mechanical Strength
- High Efficiency & Minimum Losses
- No Wave Form Distortion
- 80% Depreciation as per Income Tax Act.



Inner View of Unbalanced Stabilizer

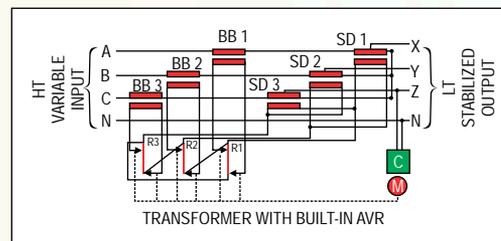
HT **2 in 1** TRANSFORMER WITH STABILIZER

It is a very altogether different product basically a combination of standard Distribution Transformer and LT Automatic Voltage Regulator. The standard Transformer with OLTC can correct limited Voltage variation in certain steps where as Built-in operates steplessly monitoring the output voltage continuously. The incoming fluctuating H.T. supply is initially stabilized and then fed to the stepdown transformer and thereby the L.T. output is maintained with in $\pm 1\%$ accuracy. **2 in 1** has the following advantages :



H.T. **2 in 1** Transformer with Stabilizer

- Space Saving
- Reduced Installation Cost
- More Efficiency
- Reduction in Electricity Bill



SPECIAL PURPOSE SUPPLIES

ESR Supply : ESR (Electro Slag Remelting) Furnance DC Supply : For the purification of Steels and Special Alloys this furnance is equipped with DC Power supply to control the process. We manufacture this Power supply to be attached with ESR Furnance Unit.

Advantages : • Homogeneous Product • Good Surface Quality • Controllable Process • Less Cost

Applications : • Tool and Die Steel • Stainless Steel • Scrap Remelting • Titanium Alloys • Super Alloys
• Large Forging Ingot Manufacturers

2 Phase Supply



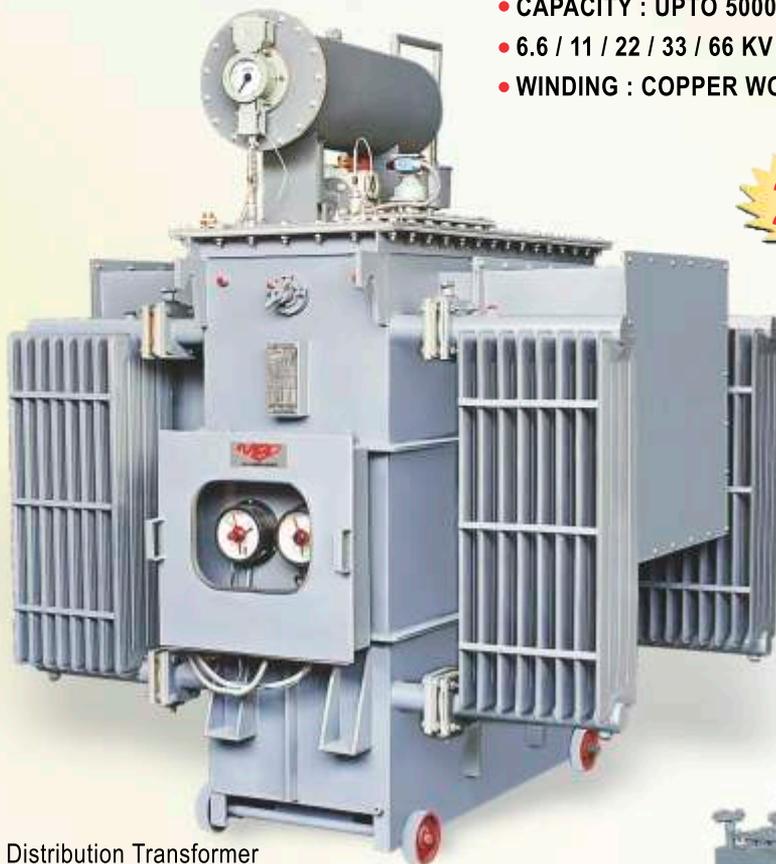
3 Phase Supply



DISTRIBUTION & POWER TRANSFORMER

- CAPACITY : UPTO 5000 KVA
- 6.6 / 11 / 22 / 33 / 66 KV CLASS
- WINDING : COPPER WOUND

2 Years Guarantee



Distribution Transformer
2000 KVA (11 KV)



Distribution Transformer with
Off Load Tap Changer 315 KVA (33 KV)



Distribution Transformer
with OLTC 1000 KVA (33 KV)

STANDARD FITTINGS

- Rating & Diagram Plate
- Earthing Terminal
- Lifting Lugs for Transformer
- Bottom Drain & Filter Valve
- Top Filter Valve With Plug
- Conservator Tank
- Oil Filling Hole With Cap
- Air Release Valve
- Thermometer Pocket
- Silicagel Breather
- Explotion Vent (Pressure Relief Valve)
- Neutral Brought Out Terminal
- Bi-directional Roller
- Oil Level Indicator Normal
- Above 100 KVA
- Off Load Tap Changer (0, $\pm 2.5\%$, $\pm 5\%$)
- Above 500 KVA
- Dial Type Thermometer
- L.V. Terminal Box

Above 630 KVA

- Lifting Lugs for Top Cover
- Inspection Cover

Above 750 KVA

- Double Float Buchholz Relay With Alarm & Trip Contacts
- Dial Type Thermometer With Alarm Contact
- Marshalling Box With Complete Wiring

Higher Capacity (On Demand)

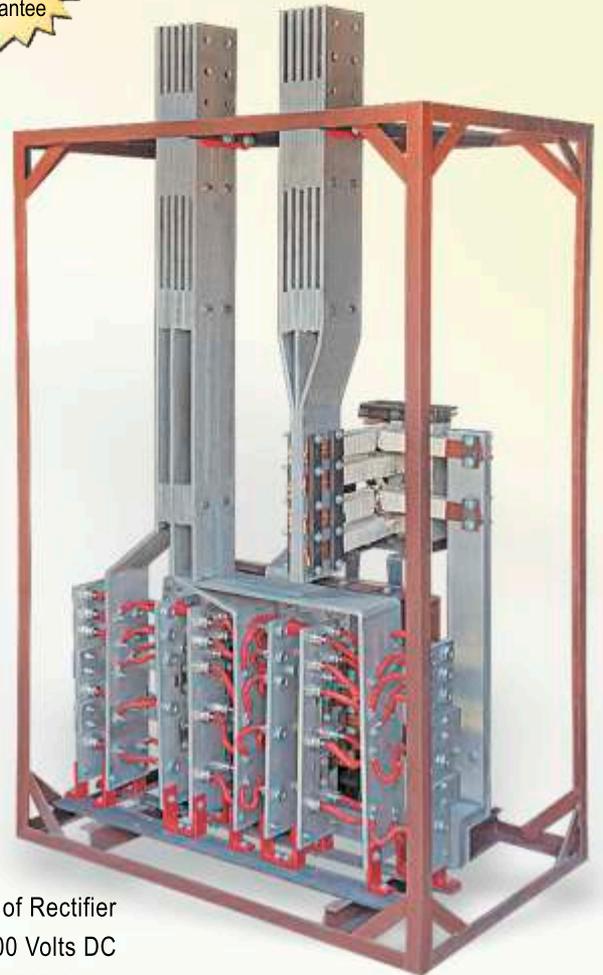
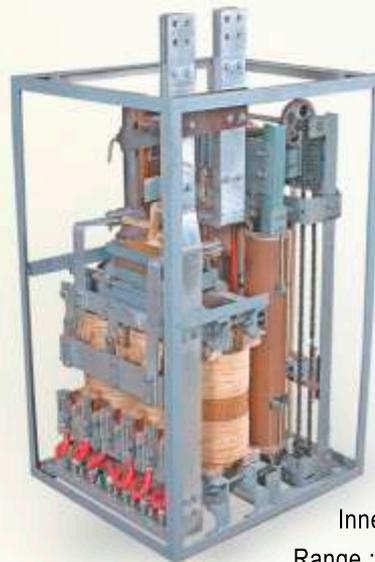
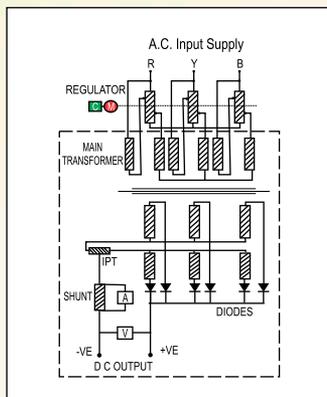
- Magnetic Oil Level Gauge With Low Level Alarm Contact
- H.V. Terminal Box
- Jacking Pad
- On Load Tap Changer with RTCC Panel

RECTIFIERS

APPLICATIONS

- Electroplating
- Etching
- Anodising
- Electrolysis
- Hydrogenation
- Electro Forming
- D.C. Drives
- Copper, Aluminum, Zinc Refining
- Heating Furnace, Magnetization
- Electrochemical Processes
- Ionization
- Battery Chargers
- Traction Power Supplies
- D.C. Welding Rectifier

5 Years
Guarantee



Inner view of Rectifier
Range : 0 to 500 Volts DC
0 to 20,000 Amps

REVERSE POLARITY RECTIFIER



Capacity :
12V - 6000 amps



Inner view



Control Panel



**Stabilizer / AVC For
Domestic & Commercial
Application**



Salt Bath Furnace Transformer



Furnace Transformer



**Isolation / Dry Type
Transformer**

PANELS

**Power Distribution Panel
(H.T. & L.T. Panels)**

1 Year
Guarantee

APFC PANEL



Main LT Panel



Internal View



Outer View

Sales & Service Network

Punjab / Haryana / J & K - Ludhiana
NCR / Uttar Pradesh - New Delhi
Himachal / Chandigarh / Haryana - Panchkula
Uttarakhand - Rudrapur
Bihar / Nepal - Raxaul
Gujarat - Ahmedabad
Andhra Pradesh / Tamilnadu - Hyderabad
Karnataka - Bangalore
Maharashtra / Goa - Mumbai
North Eastern States - Guwahati
Madhya Pradesh / Chattisgarh - Katni / Bhopal
Rajasthan - Jaipur
Orrisa - Bhubaneswar / Cuttack
Nepal - Kathmandu

We also Offer

Electrical Consultancy Services

Energy Audit

Electrical Safety Audit



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