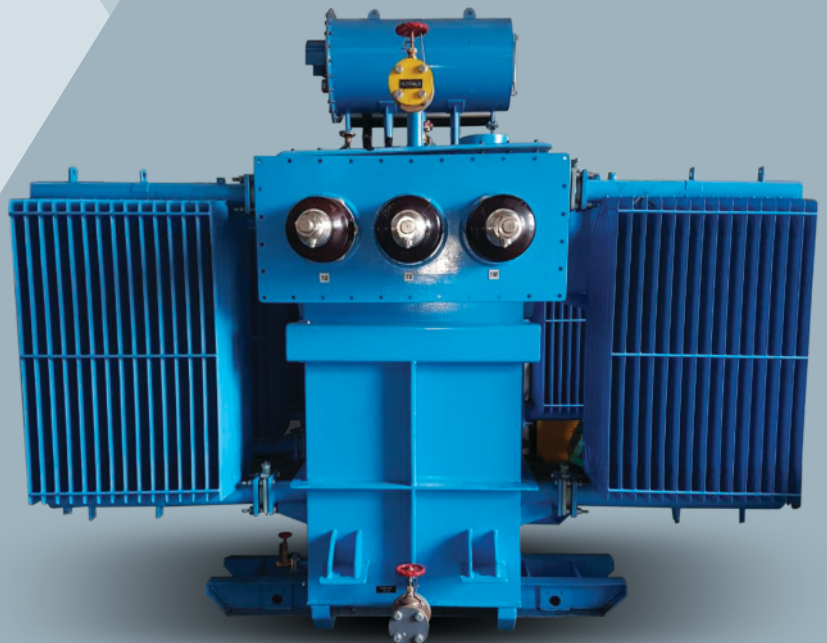




TESLA TRANSFORMERS (GLOBAL) PRIVATE LIMITED

Formerly Known as Tesla Transformers Limited

An ISO 9001:2015, ISO: 14001:2015, ISO 45001:2018
& NABL Accredited Certified Company





Tesla Transformers Global

Tesla (Global) is a multi-product and service organization in the Electrical Power sector dealing in manufacturing, supplying, erecting, and testing of distribution & power transformers, with credibility over the past many years. Owing to adherence to international Quality norms and customer services, TESLA Global has an excellent brand image and is an ISO 9001:2015, ISO: 14001:2015 & ISO 45001:2018 Certified. TESLA Headquarters are in Bhopal (India) and it has marketing network in Asia, Africa, America and Europe.

- Manufacturing & Supply of power Transformers, Distribution Transformers and Special transformers up to 10 MVA 66 KV.
- Exports Transformers

Tesla Power & Distribution transformers have established their place in wide cross section of Indian market covering Electrical Utilities, Govt. owned service providers and private companies. Tesla is now getting established in global market having already supplied Electrical power equipment's to countries across the Globe. Tesla has got adequate manufacturing & testing facilities. The Company is having a well-organized R & D and Q.C. department with qualified and experienced Engineers. The company have adequate service network for effective after sales service through its various service centers.



NABL Accredited Laboratory



TRANSFORMERS

The complete product range includes the following:

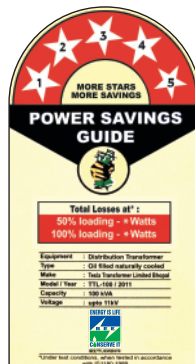
- Power & Distribution Transformers
- Dry Type Transformers for Converter Duty Application
- Solar Application Multi winding Transformers
- Unitized Packaged Sub station

Tesla manufactures wide range of distribution and power transformers ranging from 25 KVA to 10 MVA with voltage class of 66 KV maximum.

The high quality Standard setup by the company are appreciated by our customers in India and Abroad, Standards which are applied to development, manufacturing, installing and commissioning of power transformers for power stations, special purpose transformers for industry fields, reactors and accessories. Our two manufacturing facilities are located in Bhopal. Power transformers up to 10 MVA 66 KV Class are regularly manufactured and supplied.

Tesla is equipped to manufacture transformers with a wide range of internationally recognized standards such as:

- IEC (International Electro Technical Commission)
- ANSI (American National Standard Institution)
- Bureau of Indian Standards
- BS (British Standards)
- IS (Indian Standards)
- ESKOM Standards
- SESCO Standards
- SABS Standards



ENERGY EFFICIENT TRANSFORMERS

Tesla is one of the few/first units manufacturing energy efficient transformers 25 KVA to 2500 KVA in India. We had supplied more than 15000 units of various rating energy efficient transformers to electrical utilities in India.

Energy efficient transformers are rated as 4 star, 5 star or above star rating. In energy efficient transformers we guarantee individually the no-load loss and load loss without any positive tolerance at 50% and 100% load condition (at rated voltage and frequency and at 75°C).

The maximum allowable losses at rated voltage and rated frequency permitted at 75°C for distribution transformers can be chosen from the values of 4 star or 5 star rating for transformers. No positive tolerance shall be allowed on the maximum losses displayed on the label for both 50% and 100% loading values.

POWER TRANSFORMERS/GENERATOR TRANSFORMERS - OIL IMMERSED

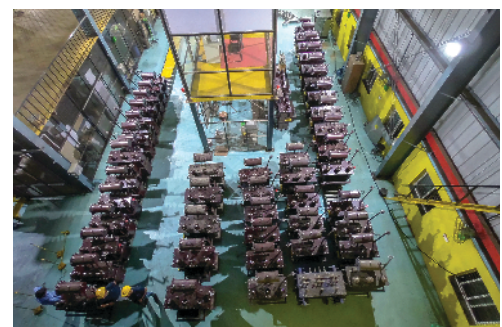
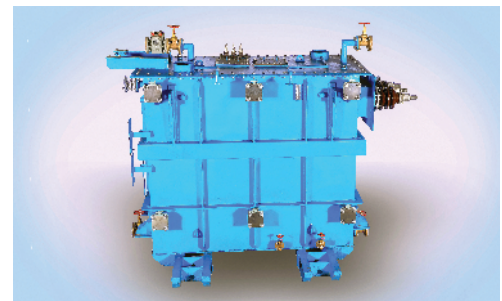
Small Power Transformers/ Industrial Transformers from 2.5 MVA to 10 MVA with a maximum service voltage of 66 kV. They are used as distribution transformers in industry with special design and used as generator transformer for smaller capacity.

PRODUCT FEATURES

- Provision of Mineral Oil, Silicon Oil, Ester Oil, Vegetable based oil or as per requirement
- Presence of step lap construction and mitered joint for core
- Capable of handling extreme system supply and ambient temperature
- Losses vary as per Star Rating/ BEE Rating
- Low losses & high impedance

SPECIFICATIONS

- Rating Up to 10 MVA
- Primary Voltage Up to 66 kV
- No. of Phase Three
- Cooling ONAN/ ONAF/ OFWF
- Applicable Standard IS, IEC, ANSI, BS, AS, SABS, etc.
- Winding Material Copper



CONVERTER DUTY APPLICATION TRANSFORMERS (MULTI WINDING)

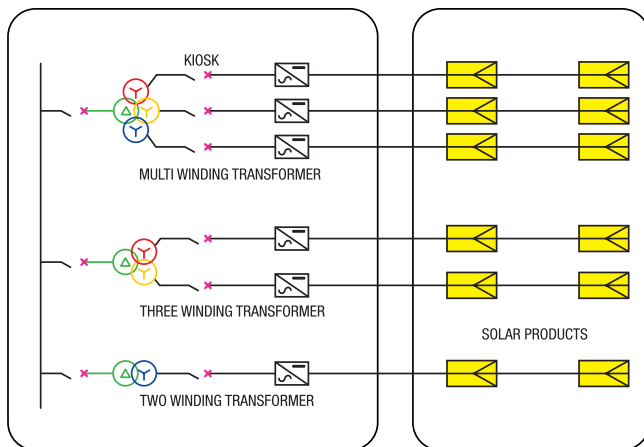
Converter Transformers are used for large drive applications and static voltage compensation. These Transformers are mostly built as double – tier with two secondary or multi secondary windings. Multi secondary windings are provided with desired phase shift to obtain 12, 24 or 36 pulse configurations.

INVERTER DUTY TRANSFORMERS (FOR SOLAR APPLICATION)

Tesla understands the needs of the solar developers and has successfully designed and shipped transformers for power distribution applications in a solar farm using PV modules in India and throughout Asia-Africa continental. We have been successfully meeting the stringent specifications of customers and have a design which precisely these applications. The transformers are specially designed with low losses but high efficiency standards to meet the industry's stringent demands.

FEATURES:

- Rating Up to - 5 MVA
- Voltage Class Up to - HV Voltage - 11, 22 & 33 or as per customer requirement.
- LV Voltage - 0.30, 0.38, 0.420, 0.433, 0.750, 1.05, 6.6 or as per Customer requirement.
- Frequency - 50/60 Hz
- Vector Group - Dd0y11, Dy11, Dyn11-yn11, Dy5y5y5, Dyn11-yn11yn11yn11
- Voltage step-up from the inverter output to the MV feeding network.
- Galvanic isolation between the solar inverter and the feeding network.
- High mechanical strength LV winding comprise of two windings made of aluminum or copper both connected in wye (Y) with or without neutral point.
- Natural or air forced cooling system.
- Robust and oil tight mechanical construction with customized overall dimensions.
- High quality surface protection.
- Protection & monitoring with devices that offer oil level indication, gas detection, and pressure and temperature control.



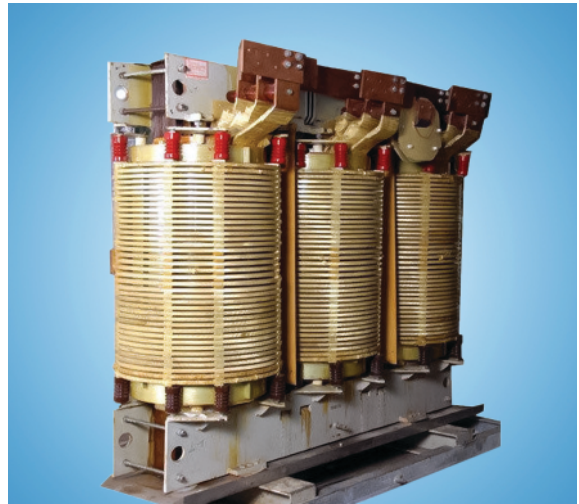
DRY TYPE TRANSFORMERS

Dry type transformers can be installed wherever oil filled units cannot be used such as inside buildings, in tunnels, cranes, off shore platforms, ground catchment areas, public places etc.

PRODUCT FEATURES

- High impulse & dynamic short circuit strength.
- Good overload capacity.
- Low partial discharges & Lower losses.
- Non-hygroscopic & fire resistant.
- Well suited for damp and/ or contaminated areas.
- High performance towards dealing with seismic phenomena.
- Low cost of installation & maintenance.
- Drastically reduced maintenance and cleaner looks because of absence of any insulating liquid.
- A lifecycle analysis would reveal the cost-effectiveness of Dry type transformers in the long run though these require higher initial cost.
- Easy handling and access to active parts for inspection.
- The Dry type transformers are designed for required BIL values and are tested for dynamic short circuit.

Rating Up to	- 3 MVA
Voltage Class Up to	- 33 kV
Frequency	- 50/60Hz
Vector Group	- Dyn11/ YNd11/ Dyn1
Cooling	- ANAN/ ANAF
Applicable Standard	- IS, IEC, ANSI, BS, SABS, etc.
Winding Material	- Copper/ Aluminum
Insulation Class	- F/ H/ C



1000 KVA 11/0.433 KV VPI Dry type Transformer



2500 KVA, 33/0.433 KV Cast Resin Dry Type Transformer

UNITIZED/PACKAGED SUB-STATION (USS/PSS)

Package substation are metallic structure for outdoor housing multi compartments, which can be installed in a rapid manner. They are manufactured to house all electrical switchgear interconnected, that are entirely factory built and tested according to the international Electro technical commission.

Package substation exists in the following forms:

3 Compartment structures (HV switchgear -Transformer-LV switchgear)

Salient Features

- Rating Up to 2.5 MVA Voltage Class Up to 33 kV
- Providing clients with flexible option for abiding with different constraint such as area installation etc.
- Includes control devices with corresponding wiring.
- All inter connections are entirely factory build and tested.
- Provision of remote monitoring and control of switching devices on HV & LV side.
- High operation reliability
- Operating personnel safety
- Adequate space for inspection & maintenance of transformer
- Simplicity of installation positioning on the trench and the connecting the supply service cable.
- Customer made design
- In accordance with IEC 62271, IEC 1331
- Suitable for all weathers



EXPORTS

Tesla Global Exports truly be termed as “A single source for all your electrical needs”. It exports both the products manufactured by the Tesla group as well as products manufactured by several associates in India. A wide range of Electrical items such as:

- Distribution & Power Transformers of Oil/Dry type.
- Mobile Substations.
- Unitized Substations (USS)
- Solar Multi winding Transformers
- Hermetically sealed Transformers
- As per International Electrical Standards



EXPORTS

- Afghanistan
- Australia
- Bangladesh
- Ethiopia
- Ghana
- Iraq
- Kazakhstan
- Kenya
- Libya
- Malta
- Malawi
- Namibia
- Nepal
- New Zealand
- Nigeria
- Oman
- Palestine
- Qatar
- Saudi Arabia
- South Africa
- Spain
- Sudan
- Tanzania
- UAE
- Yemen
- Zambia



OUR CLIENTS

- | | |
|------------------|---------------------------|
| ■ APTRANCO Ltd. | ■ CABLE/ELECT. INDUSTRIES |
| ■ APDCL | ■ COAL MINES |
| ■ MSDECL | ■ ELECTRICAL TESTING LABS |
| ■ MPMKVCL | ■ RESEARCH CENTRE |
| ■ OPTCL | ■ ELECTRICAL CONTRACTORS |
| ■ JBVNL | ■ FINANCIAL INSTITUTION |
| ■ HESCOM | ■ FOOD PROCESSING PLANTS |
| ■ NTPC | ■ FURNACE INDUSTRIES |
| ■ POWER GRID | ■ GENERATION PLANTS |
| ■ BHEL | ■ HYDEL PROJECTS |
| ■ TANGEDCO | ■ NATIONAL UTILITIES |
| ■ JKPDD & JKSPDC | ■ PETROLEUM PLANTS |
| | ■ SOLAR/WIND POWER |



VENDOR APPROVALS





EXPORTS



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