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solar application transformers

(Multi Winding)



AMORK 900979796

Tesla Transformers Limited has over 4 decades of experience in the manufacturing of custom design transformers as well as standard transformers. We began manufacturing from single phase transformers and these liquid-filled and dry type transformers have been designed to meet very low profile construction standards & to operate reliably in extremely high temperature environments. The knowledge gain from these early projects guide us in the development of numerous design innovations and continue to expand we continue to produce innovative solutions for transformer application developing the best possible transformer to meet our customer specific needs. Our experience, expertise & ingenuity continue to expand and develop along with the breadth of our product range. Tesla has moved to the forefront of transformer design for alternative energy projects and has become the manufacturer of choice for numerous wind farm and solar projects. We continually improve the efficiency of our processes throughout our facilities.

Hermetically Sealed Transformer

Hermetically Sealed Transformer is a transformer design which has no conservator. Here the dielectric insulating fluid in the transformer tank is completely sealed and is in zero contact to the atmosphere. This type of transformer is used in applications where the transformer is to be installed in harsh climatic conditions (smoke, pollution, dusty environment, etc) or user prefers low maintenance transformer. The design avoids air in the transformer tank thereby avoiding slug and oxidation of the dielectric fluid. Hence it would be safe to say that these transformers need no maintenance of dielectric insulating fluid (usually oil).

What are Solar Transformers?

Transformers are critical components in solar energy production and distribution. Historically, transformers have “stepped-up” or “stepped-down” energy from non-renewable sources. There are different types of solar transformers including distribution, substation, pad mounted and grounding. All solar transformers have specialized needs that impact costs. Normally these type of transformers are accommodated by devices that measure heat related volume variations. Gas cushion is used to compensate the volume variation due to heat. Normally the gas is nitrogen. This gas is thermally uncoupled from the dielectric liquid.



Solar Applications

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 fits these applications. The transformers are specially designed with low losses but high efficiency standards to meet the industry's stringent demands.

Features of Solar Transformers

- Rating upto 5 MVA
- 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.
- Vector Group - Dy11Y11, Dy11, Y11y11, Dy5y5y5 or as per customer requirement.
- 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 aluminium or copper both connected in wye (Y) with or with out neutral point.
- Natural or air forced cooling system.
- Robust and oil tight mechanical construction with customised overall dimensions.
- High quality surface protection.
- Protection & monitoring with devices that offer oil level indication, gas detection, pressure and temperature control.

