



DYNAMECH ELECTROPOWER PVT. LTD.

**POWERING
NATION**



DYNAMECH TRANSFORMERS

Star Rated Distribution Transformers
(As per IS 1180)

Power Transformers
(As per IS 2026)

Solar Inverter Duty Transformers
(As per IS 2026)

Amorphous core type
low losses Distribution Transformers
(As per IS 1180)



ABOUT COMPANY

Welcome to Dynamech Electropower Pvt. Ltd., an ISO 9001:2015 Certified company – a pioneering force in the energy industry. Established in 1992, we manufacture and repair Power Transformers, Distribution Transformers and Inverter Duty Transformers. DYNAMECH makes Transformers which are widely used by various State Electricity Boards, Development Authorities, Public and Private Sectors. The Transformers are manufactured conforming to ISS/IEC Standards at our works stations in Bhopal, by skilled technicians with supervision and rigid quality control by qualified and experienced Engineers. These can also be designed as per any National and International specifications. These Transformers carry several exclusive features for long & trouble free performance with high efficiency.

CORE VALUES

Our vision at Dynamech Electropower Pvt Ltd is to establish ourselves as leaders in the industry, recognized for delivering superior quality transformers and pioneering solar solutions. We are committed to setting new standards in excellence by consistently providing reliable transformers and pushing the boundaries of innovation in the dynamic field of solar energy. Our aim is to exceed customer expectations by offering top-tier products and staying at the forefront of advancements, redefining the future of energy solutions.

PRODUCTS

- ◆ Star Rated Distribution Transformers (As per IS 1180)
- ◆ Power Transformers (As per IS 2026)
- ◆ Solar Inverter Duty Transformers (As per IS 2026)
- ◆ Amorphous core type low losses Distribution Transformers (As per Is 1180)

Dynamech manufactures a wide range of power and distribution Transformers, ranging from 25 KVA to 10 MVA. Dynamech is equipped to manufacture transformers with a wide range of internationally recognized standards, such as:

- ◆ IEC (International Electro Technical Commission)
- ◆ BIS (Bureau of Indian Standards)
- ◆ IS (Indian Standards)

DISTRIBUTION TRANSFORMERS

The distribution transformers are used to step down the voltage level. These are designed to be robust and energy efficient. Standard: IS 1180 Three-phase transformers Capacity up to 2500KVA Voltage Class up to 33 KV Range of the distribution transformers: 10 KVA 11/0.433 KV, 33/0.433KV Type- Amorphous core & CRGO oil-filled transformers



INVERTER DUTY TRANSFORMERS

Electric power is generated by converting solar energy to D.C by using photovoltaic (PV) cells. The DC generated is converted to A.C by inverters and the A.C is connected to the power grid by a step-up transformer. The international standard applicable for the transformers for DPV generation is IEEE C57.159 2016 “IEEE Guide on transformers for application in distributed photovoltaic (DPV) power generation system”.

FEATURES OF INVERTER DUTY (SOLAR) TRANSFORMERS

- ◆ Rating up to 13.2 MVA
- ◆ HV Voltage 11, 22 & 33 or as per customer requirement.
- ◆ LV Voltage – 0.420, 0.433, 0.660, 0.690, 0.750, 0.800, or as per customer requirement.
- ◆ Vector Group –Dy11y11y11y11, YNd11d11d11, Dy5y5y5y5 or as per customer requirement.
- ◆ Voltage step-up from the inverter output to the MV feeding network.
- ◆ Galvanic isolation between the solar inverter and feeding network.
- ◆ High mechanical strength LV windings comprise two windings made of aluminum or copper both connected in wye (Y) with or without a 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, pressure and temperature control.

POWER TRANSFORMERS

Power Transformers are used in transmission networks of higher voltage for both step-up and step-down applications. Dymech Manufactures a comprehensive range of power transformers, designed to provide an uninterrupted power supply in compliance with IEC/Indian standards.

POWER TRANSFORMERS

- ◆ Rating Up to 10 MVA Primary Voltage Up to 33kV.
- ◆ Provision of Mineral Oil, Silicon Oil, Ester Oil, Vegetable-based oil, or as per requirement.
- ◆ Presence of step lap construction and mitered joint for the core.
- ◆ Capable of handling extreme system supply and ambient temperature.
- ◆ Losses & Impedance vary as per Customer Specifications.
- ◆ No. of Phase - Three.
- ◆ Cooling - ONAN/ ONAF/ OFWF.
- ◆ Applicable Standard - IS, IEC, ANSI, BS, AS, SABS, etc.
- ◆ Winding Material Copper.



TESTING FOR QUALITY ASSURANCE

Our works is equipped with all requisite testing facility for quality assurance. Each transformer is tested for all tests conforming to IS: 2026 ,1180, IEC 60076 and other Applicable standards by qualified and experienced engineers with precision instruments.

THE TEST INVOLVED ARE FOLLOWING

- ◆ Insulation Resistance & PI Test
- ◆ Voltage Ratio Measurement
- ◆ Vector Group and Polarity Check
- ◆ Induced Over Voltage Test
- ◆ Separate Source High Voltage Test
- ◆ No Load Losses and Magnetic Current Measurement
- ◆ Load Losses and Impedance Voltage Measurement
- ◆ Zero Sequence Current Measurement
- ◆ Winding Resistance Measurement
- ◆ Temperature Rise Test
- ◆ Pressure and Vacuum Testing
- ◆ Dielectric Strength of Transformer Oil Test
- ◆ Tan Delta Test
- ◆ Paint Adhesion Test
- ◆ Partial Discharge Test
- ◆ Magnetic Balance Test



OUR TRANSFORMERS CERTIFICATION



OUR COMPANY CERTIFICATION



SUPPLYING TRANSFORMERS TO DIVERSE SECTORS



MPPKVVCL

- ◆ Bhopal
- ◆ Jabalpur
- ◆ Shahdol
- ◆ Dhar
- ◆ Gwalior
- ◆ Sagar
- ◆ Indore
- ◆ Ratlam
- ◆ Guna
- ◆ Chhhindwara
- ◆ Ujjain
- ◆ Mandsaur
- ◆ Badwah



MVVNL

- ◆ Lucknow
- ◆ Raipur



CSPDCL

ASSOCIATED COMPANIES



AGRAWAL POWER
PVT. LTD.



AK INFRA



ADRAK
ENGINEERING

WARRANTY & AFTER SALES SERVICE

All our products are warranted against any manufacturing defect. We pride ourselves on our excellent & prompt after-sales service network, ensuring customer satisfaction.



Dynamech
Electropower Pvt. Ltd.



Call Us: **9229999911, 0755-4265615/16** Toll free: **1800-274-0282**

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