

IS : 1180



(PART-1)
CML NO.
8400034610



 **UNITED**™
TRANSFORMERS

A Symbol of Quality Products

- Power Transformers
- Distribution Transformers
- Dry-Type Transformers
- Furnace Transformers
- Isolation Transformers
- OLTC Transformers
- High Voltage Transformers
- Metering & Protection Units/CTPT Sets
- Servo Unit
- Booster Transformers
- Rectifier Transformers
- Single Phase Transformers
- Package Sub Station
- Inverter Duty Transformers

About United Transformers



Er. Om Prakash Mursenia

"M/s United Transformers" an ISO 9001:2015 Certified Company, having its registered office and works at Plot No. G-687 (A), Road No. 9F2, Vishwakarma Industrial Area, Jaipur (Raj.), was established by Er. Om Prakash Mursenia in the year 1994, having experience in the transformer industry for more than 35 years. From a modest start in a small shed, the unit has grown into one of the established Brand, leading and quality conscious units of the country, manufacturing various kinds of electrical transformer including power & distribution transformers.

The organization was established to produce Power & Distribution Transformers of 33, 22 & 11 KV voltage class, to meet the needs of public utilities organizations and of private industrial sector in India.

Over the period of time the company has supplied thousands of transformers of various rating and voltage classes to various govt, semi govt. Departments, commercial/residential complexes, industries through out India & Overseas also.

Our vision is to provide best quality product with best efficiency and lower operational costs leading to cost effective solution to individual customer's specific requirements. The company has exported its quality products to Nepal, Bhutan & Ghana also.

We are constantly working on developing new designs based on improved grades of materials and latest technology, special tests are conducted on prototype to improve the design for better performance in adverse operating conditions under the guidance & expertise of certified quality management consultants. We ensure that detailed drawings, specifications and materials with correct properties only are supplied/made available for manufacturing purpose. We strive to put the best quality inputs in our products to give high performance in terms of reliability and efficiency. We also offer extended warranty periods to build customer confidence in our Products.





Products

United Transformers with the brand name of "UNITED" covers a wide range of variety incorporating latest trends in designs concepts for low loss magnetizing current. We can offer transformers from 5 KVA to 10 MVA step up and step down transformers with various voltage classes/combinations, having different vector groups.

The products are supplied with tapping & without tapping as and when specified for voltage variations in several steps including off circuit and on load conditions along with RTCC and AVR. Transformers are supplied with different terminal arrangements as per the requirements of the customers.



Power Transformers

Used for transmission of power from various sources such as 11 to 33, 66, 132, 400 KV and vice-versa.

Product Range & Specification

Unit Rating	1 MVA to 10 MVA
System Voltage	up to 33 KV



Distribution Transformers

General use transformers fulfilling the needs of huge masses and state utilities.

Product Range & Specification

Unit Rating	10 KVA to 8 MVA
System Voltage	up to 33 KV



Dry-Type Transformers

These type of transformers are best used in highly populated areas, as they are safe hazardous-free & fireproof.

Product Range & Specification

Unit Rating	63 KVA to 5 MVA
System Voltage	up to 33 kV

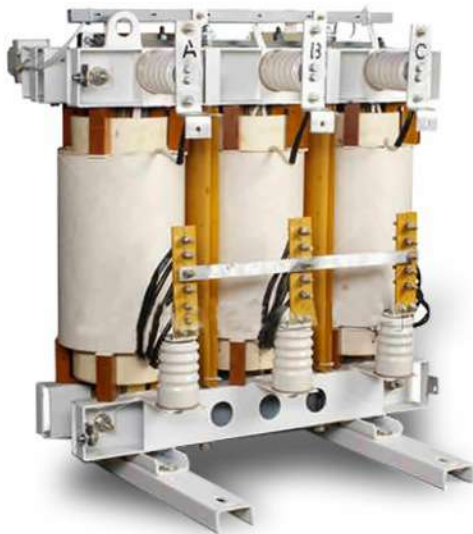


Furnace Transformers

Exclusively used for furnace operation, designed on different voltage ratios ie: 0.850 KV 0.570 KV 6.6 KV

Product Range & Specification

Unit Rating	100 KVA TO 7.2 MVA
System Voltage	Up to 33 KV



Isolation Transformers

These are used in isolating the LT supplies and maintaining continuous balance voltages.

Product Range & Specification

Unit Rating	16 KVA to 2.5 MVA
System Voltage	Up to 3 KV



OLTC Transformers

These are utilized in areas prone to very frequent voltage fluctuation on HT side to avoid system trips.

Product Range & Specification

Unit Rating	100 KVA to 10 MVA
System Voltage	up to 33 KV



High Voltage Transformers

These are used in various industries involved in manufacturing of high voltage electrical equipments.

Product Range & Specification

Unit Rating	10 KVA to 267 KVA
System Voltage	50 KV to 400 KV



Metering & Protections Units / CTPT Sets

These are used for power consumption metering on HT side.

Product Range & Specification

Unit Rating	5/5 to 500/5, 0.2/0.5 S class
System Voltage	11KV, 33 KV and 66 KV



Servo Unit

Controls low voltage fluctuations on LT side and supplies smooth power avoiding electrical collapses.

Product Range & Specification

Unit Rating	25KVA to 2.5 MVA
System Voltage	Input Volt 360 to 460 V Output Volt 400/415 V



Booster Transformers

Instrument transformers used in transformer manufacturing industry for perfect boosting supplies required during testing.

Product Range & Specification

Unit Rating	50 KVA to 1 MVA
System Voltage	Up to 6.3 KV



Rectifier Transformers

Special application transformer, used in very high temperature conditions 200 Degree Celsius.

Product Range & Specification

Unit Rating	2,000 to 10,000 Amp
-------------	---------------------



Single Phase Transformers

Generally used for supplying single phase supply in domestic consumption.

Product Range & Specification

Unit Rating	5 KVA to 167 KVA
System Voltage	6.3 KV

Package Sub Station

Package Sub Stations are used for indoor as well as outdoor app. are safe and maintenance free with all 3 units combined.

Product Range & Specification

Unit Rating	100 KVA to 2MVA
System Voltage	Up to 33 KV



Inverter Duty Transformers

Inverter Duty Transformers are used in Solar Power Generation Parks, have multiple windings in single transformers as per customer requirements.

Product Range & Specification

Unit Rating	500 KVA to 12.5 MVA
System Voltage	Up to 33 KV



Research & Development

We are constantly working on developing new design based on improved grades of materials and latest technology. We actively participate in various/International Seminars to keep abreast of the latest developments in technology, Special tests are conducted on Prototype to improve the design for better performance in adverse operating conditions.

Core Building technology

The Transformers are built with full-annealed, Cold Rolled Grain Oriented (CRGO) Silicon laminations. Only best grade, prime CRGO material is used by us. Full metered designs are incorporated to minimize losses, magnetizing current and noise.



Windings

Most Suitable type of winding constructions is adopted in our designs to give optimum performance with regard to thermal, mechanical and electrical Stresses. These are:

- (a) level Winding
- (b) spiral
- (c) Crossover Type
- (d) Continuous disc type
- (e) Helical Type etc.

To minimize stray losses, conductors are suitable transported. When necessary, we are using "Progressive Transportation Technique", whenever possible, Conductor insulation for Round Wire can be Super Enamel or Paper Covering. For rectangular strips, paper covering can be double layer, triple layer or multi layer, Best grade/imported paper is used.



Core Coil Assembly

Full attention is paid to ensure to robust construction. Radial spaces of pre-compressed board are interlocked with the axial blocks in dovetail type joints. Parmali wood rings are used to ensure required mechanical and electrical strength, commensurate with the rating and voltage class of the Transformers, Suitable steel section are used for core clamps, lifting brackets and base Supports These are tightened with the help of core studs/tie rods using lock nuts to make the whole assembly robust. HT loads are taken out the SRBP tubes and clamped to special 'PIE' (a) structure, attaches to the core channel. LT leads are taken to the bushing terminals through a oiled Bux Bar and connected to the terminals through flexible jumpers.



Tanks & Painting

The Tanks are MS Fabricated and suitable stiffened. A high safety factor is kept and suitable steel sections are used. Cooling is provided using radiators, made of Elliptical Tubes or Pressed Steel Fins. The radiators are generally welded to the tank, but can be detachable type also. All tanks are tested for leakage by subjecting to pressure above 10 PSI. Vacuum test are also carried out to ensure robustness. Tanks and Radiators are cleaned by shot blasting, following by proper surface treatment and paint. Expose burned paint is generally applied.



After Sale Service

Should there be any complaint, our team of dynamic and well trained technicians is promptly deputed to the site. Our commitment is to ensure a long and trouble-free operation of the Transformers and full satisfaction to the customers.



Manufacturing Stages

01
Core
Building



02
Winding



03
Preshrinking
of Coils



04
Core - Coil
Assembly



05
Drying & Vacuum
Impregnation



06
Tanking



07
Testing



08
Dispatch



Association with Some Precious Brands



Installed Products



TRANSFORMING

ETHICS &

GENIUNITY

INTO

ELECTRICITY



Regd. Office & Works

G-687 (A), Road No. 9, F-2, VKI Area, Jaipur-302013

Telephone

+91 141 4010576

Fax

+91 141 4038129

Cellphone

+91 98280 80864

+91 80588 57000

Website

www.unitedtransformers.com

Email

support@unitedtransformers.com | sales@unitedtransformers.com