



Trans-Power



Realising Dreams Through Technology!

- Current Transformers up to 1.1 kV
- Voltage Transformers up to 1.1 kV
- Controls Transformers
- Dry type Transformers upto 500 kVA
- Furness Transformers, Rectifier Transformers upto 250 kVA
- Isolation Transformers upto 250 kVA



TRANS-POWER TECH, MUMBAI

ABOUT US

We, at 'Trans-power Tech' are quality manufacturers with complete design capabilities for Instrument Transformers and LT control and dry type Transformers.

We manufacture all standard designs in these categories, and have the necessary expertise for customizing products to client specifications. We are based in Thane, India.

We are a team of efficient, experienced and dynamic engineers headed by Mr. Shailesh Thakur, B.E in Electrical Engineering from the prestigious Mumbai University, with almost 15 years experience in marketing, design, manufacturing, testing and supply of transformers.

We incorporate most modern engineering concepts and high quality materials, processed under expert supervision and rigid quality control.

We are committed to provide solutions of high quality and perfect compatibility to satisfy clients general and niche requirements. We have the capabilities to meet very stringent deadlines!

We are backed by a team of experts with their assured expertise & dedication to create world class products is what we value most. These professionals possess in depth knowledge of their respective domain.

INTRODUCTION

We are emerging manufacturers and exporters of Low Voltage Instrument Transformers having 5 years of experience in the field of Design and Manufacturing of Instrument Transformers.

Our products are very unique in engineering and design and the theme of our design is total reliability. Qualified and experienced engineers are working in Sales, Design, Production and Testing.

Products are Type Tested at recognized institutes such as CPRI / ERDA etc.

We have ISO 9001 : 2008 certification with the scope of "Manufacture of Instrument Transformers and LT dry type control Transformers. Additionally we have CE Marking for entire product range.

Trans-power Tech Key points:

- We analyze our customers' needs and provide the most technically and commercially optimum solution throughout our range.
- We coordinate with our customers regularly to understand their exact requirements based on their applications.
- We are able to produce huge volumes to support our customers with price and on time delivery.
- Our capacities to serve our valuable clients in critical period with utmost perfection are the reasons for emerging as trusted manufacturer in the field of transformers.
- All our products are type tested periodically by national laboratories such as ERDA/CPRI etc.
- We are dedicated to make quality as a top priority and Customer satisfaction is the essential key to our success.

Why Trans-Power Tech ?

We are emerging as one of the premier manufactures of Transformers in India.

The reason for the same is :

- Quick response to customer enquiries
- Tailor made & flexible designs for specific requirements
- A Comprehensive solution to transformer need
- Extensive industry knowledge
- Competitive pricing
- Capacity to produce high volumes
- Skilled and experienced work force
- On time delivery
- Customer focused approach to analyze their exact needs



L.T. CURRENT TRANSFORMER



We are specialized in offering quality L.T. Tape Wound & Cast Resin Transformers of multi range that is manufactured using quality components, which are procured from reliable vendors. These are acknowledged among clients for long functional life, high efficiency, hassle free performance and robust construction. These are widely used in various industries for measuring, protection & for special protections purpose (CLASS: PS) (restricted earth fault & differential protection systems)

We provide various types of L.T. TAPE WOUND/CAST RESIN CURRENT TRANSFORMER as per relevant Standards (IS/IEC...) as follows:

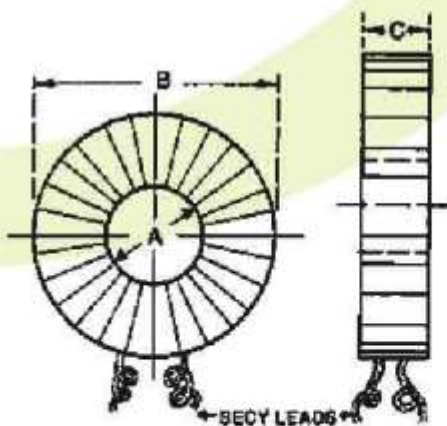
- Window type Current Transformer
- Bar Primary type Current Transformer
- Wound primary type(WPL) Current Transformer
- Varnished Fiber Glass Tape insulated Current Transformer
- WTI or Oil immersed Current Transformer

Technical Details:

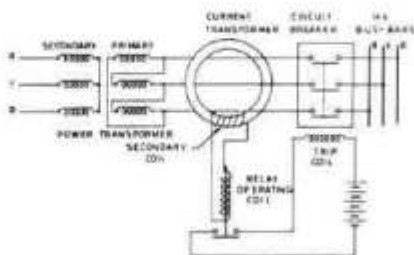
- For metering Accuracy class: 0.1, 0.2s, 0.5s, 0.2, 0.5, 1, 3, 5
- For Protection: 5p, 10p... ALF (5, 10, 20...)
- For Special protection (Class PS): any knee point voltage $Imag @ (Vk), Vk/2, Vk/4.$
- Insulation class as per IS (A,E,B,F,H)
- System voltage: up to 1.1kv

STANDARD DIMENSIONS FOR PVC ENCAPSULATED CT'S

Ratio	Rated Burden VA	Accuracy Class	Approximate Overall Dimensions in mm		
			A	B	C
50/5A or 1A	5	5.0	30	85	50
50/5A or 1A	5	5.0	30	85	50
75/5A or 1A	5	5.0	30	85	50
100/5A or 1A	5	1.0	30	86	50
150/5A or 1A	5	1.0	30	85	50
200/5A or 1A	10	1.0	50	100	50
250/5A or 1A	10	1.0	50	100	50
300/5A or 1A	10	1.0	50	100	50
400/5A or 1A	15	1.0	60	105	40
500/5A or 1A	15	1.0	60	105	40
600/5A or 1A	15	1.0	60	105	40
800/5A or 1A	15	1.0	80	140	40
1000/5A or 1A	15	1.0	80	140	40
1200/5A or 1A	15	1.0	125	180	40
1600/5A or 1A	15	1.0	125	180	40
1600/5A or 1A	15	1.0	125	180	40
2000/5A or 1A	15	1.0	125	180	40
2400/5A or 1A	15	1.0	125	180	40
2500/5A or 1A	15	1.0	125	180	40
3000/5A or 1A	15	1.0	125	180	40



CORE BALANCE CURRENT TRANSFORMERS



The CBCT or the Core Balance Current Transformer is a current transformer used for earth fault protection in grounded three phase systems. It is also known as the zero-sequence current transformer. The CBCT is a current transformer through all the three phases are made to pass as in the diagram. Thus the magnetic fluxes caused by the three phase currents cancel each other.

The net resultant flux being zero does not induce any current in the secondary of the transformer. Thus the secondary current of the core balance current transformer when all the three phases are healthy is zero.

When an earth fault occurs in one of the phases, the zero-sequence fault current which flows is not cancelled by the flux of the other two phases and hence induces a current in the secondary.

The core balance current transformer can be connected to an earth fault relay which can be used to generate the tripping signal.

RING TYPE OIL IMMERSED BUSHING CT'S



These CTs are used in distribution and power transformers upto 500MVA capacity and voltage class upto 400kV.

Key features.

Mounted inside the transformers tank.

It replaces the outdoor CT in the switchyard hence cost effective and maintenance free.

The CTs are manufactured in single as well as multi core and multiratio.

ABS MOULDED CASE CT'S



- Compact designs to suit your requirements
- Available in 8 standard sizes
- Primary current upto 5000 Amps
- Upto Class 0.2 accuracy
- Easy for mounting
- Built-in bus-bar mounting facility
- Made from fire-retardant ABS material
- For detail dimensions and specification refer Separate Leaflet.

L.T. VOLTAGE TRANSFORMERS



We manufacture L.T. Voltage Transformers in Tape insulated & Cast resin types. These are widely used in various industries for measuring & protection purposes.

We provide various types of L.T. Voltage Transformers as per relevant Standards (IS/IEC...) as follows:

- Single/Three phase voltage transformer
- Interposing voltage transformer (IVT)

Technical Details:

- For metering Accuracy class: 0.2, 0.5, 1
- For Protection: 3P, 6P
- Temperature: insulation class as per IS /IEC
- System voltage 1.1KV



LT CONTROL TRANSFORMERS



We manufacture LT Transformers that are widely demanded by clients for effective performance, low regulation, high efficiency, good power back up, easy installation and flawless performance. These are insulated with VPI/Epoxy Resin to ensure hassle free functioning. We also offer customized solutions to clients as per their varied requirements. It has been used for Isolation, lighting load, control circuit, thyristor, rectifier circuit etc....

A control transformer is a transformer which supplies power to control and/or auxiliary equipment not intended for direct connection to the main circuit. Control Transformers are specifically used to provide control supply voltages for the control circuits of AC motor starters

We provide various types of LT Control Transformer as per relevant Standards (IS/IEC...) as follows:

- Single Phase & Three Phase Transformer
- Epoxy Cast Resin Transformer
- Vacuum Pressure Impregnated Transformer (Tape Wound)

Technical Details:

- 50/60/400Hz standard, high frequency as required
- Up to 10KVA, on low voltage.
- Multiple load winding, multiple tapped, epoxy encapsulated.
- Standard IS/IEC with special enclosures available
- Any Vector Group- 3 ph.



DRY TYPE TRANSFORMERS



We manufacture L.T. Dry Type Transformers that are widely demanded by clients for effective performance, low regulation, high efficiency, good power back up, easy installation and flawless performance. These are insulated with VPI/Epoxy Resin to ensure hassle free functioning.

As per the recent trend, Dry Type transformers are installed in high rise buildings and Public Utility areas, due to its high fire safety.

Apart from the failure proofness of the design, Dry Type transformers are known for their low inflammability and least smoke generation properties. These transformers meet strict parameters with respect to electrical system demands and functioning in areas with extreme climatic conditions.

We also offer customized solutions to clients as per their varied requirements. It has been used for isolation, lighting load, control circuit, thyristor, rectifier circuit etc....

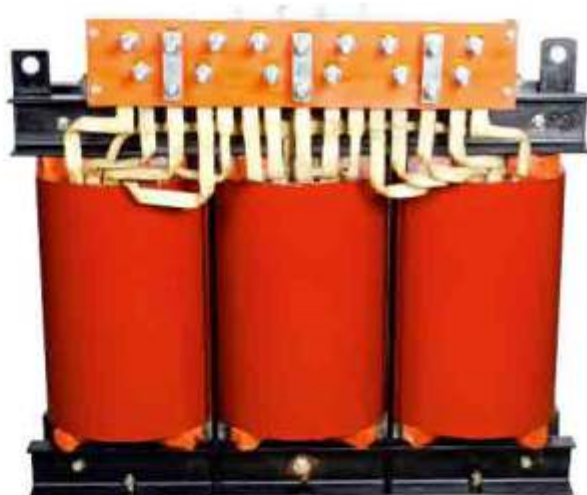
Various types of LT Dry Type Transformers offered are -

- 1 PH & 3 PH Epoxy Cast Resin Transformer
- 1 PH & 3 PH Vacuum Pressure Impregnated (Tape wound) Transformer

Dry-Type transformers have advances over oil-immersed transformers. An important issue is safety. With minimum maintenance and long life, they have no fire hazard and do not need any venting to toxic gases. These do not have any ecological restrictions and are convenient because of their compact sizes

Brief Technical Details :

- LT Dry Type – 690 V upto 1000 kVA
- Available in class B/F/H/C
- Available in 3 different variants –
 - Resin Cast Type
 - Resin Vacuum- Impregnated Type
 - Varnish Vacuum- Impregnated Type
- Available with or without enclosure
- Enclosures upto IP 42 degree of protection with IP 55 cable boxes
- Type tested at CPRI, Bangalore



QUALITY MANAGEMENT SYSTEMS

Right from Trans-Power Tech's inception, it has focused on every aspect of customers need by providing quality products and timely delivery. We have established Quality Management Systems, beginning from raw material stage to final product stage. Each stage of product passes through its set procedures and inspection plans.

Timely delivery, Quality Products, after Sale Services, stringent Quality System conforming to ISO 9001:2008 Standards has helped us to gain our customer's confidence.

Key highlights of our Quality Control & Assurance system are –

- We manufacture Current, Voltage & Control Transformers conforming to IS-2705, IS-3156, IS-12021 / 11171 IEC-60044-1, IEC-60044-2 standards.

If required we can make these conforming to relevant British / American / any other National Standards.

- Type testing is done at ERDA, an internationally recognized Testing Laboratory.
- Type Test Reports are revalidated periodically.
- Facilities for carrying out all the Routine Tests are available 'in-house' .
- Routine Testing is done on 100 % basis at semi-finished stage and also on finished products.
- A Test certificate is issued with each lot dispatched.
- Inspection & testing of incoming raw materials magnetic steel, copper wire & insulating materials is done on random sample basis. All Input Materials are checked for conformation to our specifications.
- Material is sourced only from recognized, reliable manufacturers and their routine test certificates are obtained & preserved.
- All instruments used for testing are of Precision Grade and are periodically calibrated.
- Quality Assurance Plan is made and available for each item manufactured.
- We have already certified with ISO 9001 : 2008 and also CE marking for all our products.

ROUTINE & TYPE TESTS

All Transformers are tested for following Routine Tests wherever applicable.

- ⇒ Turns Ratio Test
- ⇒ Polarity Test
- ⇒ Terminal Markings
- ⇒ Overall Dimensions
- ⇒ Load and No-Load Losses Measurement
- ⇒ Impedance Measurement
- ⇒ Insulation Resistance Test
- ⇒ Power Frequency High Voltage Withstand Test
- ⇒ Induced Over Voltage withstand Test
- ⇒ Oil Breakdown Voltage Test
- ⇒ Temperature Rise Test (Proto Types only)

QUALITY POLICY

"To achieve customers satisfaction by supplying quality products (such as all types of Instrument Transformers and Special Purpose transformers) with the help of competent staff and Quality Management System in order to achieve continual improvement in product quality."

POLICY



TRANS-POWER TECH

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