



**MLDUARTE**  
Trade & L. Technology LDA

MLDUARTE TRADE & LINGUIST TECHNOLOGY, Lda. is a consulting services company focused on international business development and the distribution of products, solutions, and services related to various industrial sectors.

MLDUARTE is headquartered in Portugal and has offices in Spain, Turkey, and Brazil. The company has staff throughout the EMEA region, South America, and Asia, offering a variety of products from well-known brands.



**STD**  
TRANSFORMATOR

**STD Transformator, founded in 2009, is a manufacturer and service provider specializing in power transformers, exporting its products to various countries. Combining extensive knowledge and experience, STD produces transformers of various power ratings and voltages, adhering to international and certified standards.**

### *Oil Immersed Hermetically Sealed Transformers*

- HV bushings according to DIN 42531 or EN 50180
- LV bushings according to DIN 42530 or EN 50386
- Off-Circuit tap changer in 5 positions
- Tank made of corrugated walls
- Thermometer pocket
- Contact thermometer (for transformers  $\geq 630$  kVA)
- Safety valve
- Lifting lugs
- Rating plate
- Earthing terminals
- Filling plug & Drain cock
- Bi-Directional rollers – 90°

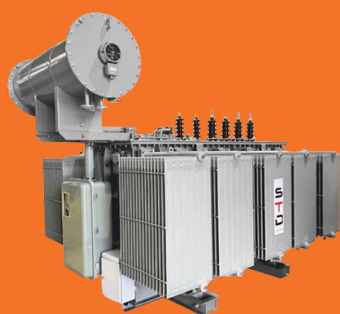


- BHV bushings according to DIN 42531 or EN 50180
- LV bushings according to DIN 42530 or EN 50386
- Off-Circuit tap changer in 5 positions
- Tank made of corrugated walls
- Thermometer pocket
- Contact thermometer (for transformers  $\geq 630$  kVA)
- Buchholz Relay (upon request or  $\geq 1000$  kVA)
- Lifting lugs
- Rating plate
- Earthing terminals
- Hole with cap for filling with oil & Drain cock
- Bi-Directional rollers – 90°

### *Oil Immersed Transformers With Conservator*

## Oil Immersed Distribution Transformers

- Power Rating: from 25kVA up to 5000kVA
- Voltage Level: from 1,1kV up to 36kV
- Frequency: 50 or 60Hz
- Vector Group: single phase or three phase transformers with possibility of star, zig-zag or delta connections in any of its windings.
- Number Of Windings: possibility to manufacture transformers with primary + secondary, double secondary, or triple secondary and any other type according to requirements of customer.
- Cooling: according to UNE-EN/IEC 60076, ONAN, ONAF, KNAN, KNAF



- Power Rating : from 4MVA up to 50MVA
- Voltage Level : from 3,3kV up to 66kV
- Frequency : 50 or 60Hz
- Vector Group : single phase or three phase transformers with possibility of star and/or delta connections in any of its windings.
- Number Of Windings : possibility to manufacture transformers with primary + secondary, double secondary, or triple secondary and any other type according to requirements of customer.
- Cooling : according to EN/IEC 60076, ONAN, ONAF, KNAN, KNAF, OFAF
- Tap Changer : OLTC or OFFCIRCUIT

## Oil Immersed Medium Power Transformers

## Cast Resin Transformers

- Power Rating: From 50kVA to 2500kVA
- Voltage Level: From 1.1kV to 36kV
- Frequency: 50 or 60Hz
- Vector Group: Single-phase or three-phase transformers with the possibility of star or delta connection on any of their windings
- Number of Windings: Option to manufacture transformers with primary + secondary, double secondary, or any other configuration according to customer requirements
- Cooling: In accordance with EN/IEC 60076, AN, AF



## Special Transformers

### Single-Phase Transformer

- This transformer is frequently used for power distribution and voltage reduction in residential and commercial applications.

### Grounding Transformer

- This transformer is connected to the power system to provide a neutral grounding point in the event of a fault.

### Rectifier Transformer

- Designed to power 12, 18, or 24-pulse rectifier circuits in industrial processes that require a significant supply of direct current (DC).

### Amorphous Metal Transformer (AMT)

- An energy-efficient transformer commonly found in electrical grids.

## Types of Transformers