

Distribution and Power Transformers

IBERGLOBAL markets a wide range of dry type transformers from 10 kVA to 30 MVA in all voltage classes up to 52 kV (250 kV BIL) 50 kVA oil transformers up to 50 MVA and 145 kV (BIL 650 kV), reactors with air insulation, resin and oil, with and without magnetic core few kVAr up to 10 MVAR and transformers with amorphous core 100 kVA to 2500 kVA.

Main types:

- **Dry transformers in resin**
Up to 30 MVA - 52 kV
- **Transformers Oil Hermetic**
Until 5MVA - 52 kV
- **Oil transformers with tank**
Up to 50MVA - 145 kV

Other Types:

- **Transformers with amorphous metal core**
- **Auto transformers**
- **Reactors**



Brands represented:



Distribution and Power Transformers

Dry type Transformers

Encapsulated resin dry transformers have reached a high level of reliability, thanks to technological advances in recent years. Ranges E2, C2, F1, and E3 (IEC 60076-16) e C4 may be used in the presence of a high level of humidity and pollution, low installation temperature inclusive to -60°C , eliminating the problems associated with fire hazards and toxic emissions and harmful substances in case of fire.

Being totally produced from insulating materials, flame retardant and self-extinguishing, thus being completely free of all restrictions normally applied to flammable devices with explosion and fire spread.



Power	10kVA – 30MVA
Voltage Class	1.1kV – 52kV
Material Temperature Class	F (155°C), H (180°C)
Environmental Temperature	-60° to $+60^{\circ}$
Coils Material	Aluminium or copper
Accessories	Temperature control sensors, temperature control units, ventilators, containers, anti vibration
Key Benefits	Compact size, self-extinguishing, protection against short circuit

Distribution and Power Transformers

Hermetic Oil Transformers

The hermetic oil transformer normally has a corrugated waterproof case which allows oil expansion with temperature variation. The body tightness extends to 0.5 Bar. This type of transformer is the most used in the world. In the sealed vessel, oil is not in contact with air and, therefore, do not involve the electrical properties thereof, thus ensuring a long service life.

For powers higher than 3150kVA or in the case of heaters transformers, the transformer can be sealed through nitrogen sealant.



Power	50kVA – 5MVA
Voltage Class	1.1kV – 52kV
Material Temperature Class	A, F
Environmental Temperature	-60° to + 60°
Coils Material	Aluminium or copper
Accessories	DGPT2, thermometer, oil level, anti vibration, protection housing
Key Benefits	Outdoor installations, even in adverse environmental conditions; compact dimensions.

Distribution and Power Transformers

Oil Transformers with expansion tank

The transformer is conservative to allow the oil expansion regarding the temperature variation. Once it isn't hermetic, the oil is continuously in contact with air via silica gel desiccant which retains moisture. The crate can be wavy or with radiators.

This design is applicable to all powers, but especially from 4,000 kVA.



Power	50kVA – 50MVA
Voltage Class	1.1kV – 145kV
Material Temperature Class	A, F
Environmental Temperature	-60° a + 60°
Coils Material	Aluminium or copper
Accessories	Buchholz relay, thermometer, oil level, anti vibration, protection housing
Key Benefits	Outdoor installation, even in adverse environmental conditions; minimal handling in relation to the hermetic transformer, ease oil supply.