

Power Transformers

2.5 - 100 MVA up to 170 kV



KONCAR-D&ST manufactures a range of three-phase oil-immersed transformers of powers up to 100 MVA, for the highest system voltage up to 170 kV. Voltage regulation is carried out by reconnecting the tapplings by means of an off-circuit tap changer at no voltage condition or by an on-load tap changer under load.

Transformers are intended for outdoor operation under various climatic conditions. They are manufactured and tested in accordance with the standard IEC 60076. All the transformers can be loaded over the rated power in accordance to IEC 60076-7.

BASIC TECHNICAL DATA

Core

Core is made of cold rolled grain oriented magnetic steel sheets of low specific losses. Sheets are mutually insulated by a thin layer of inorganic insulation, resistant to transformer oil and high temperatures.

Windings

Windings are constructed to meet the requirements with regard to the mechanical resistance to short-circuit forces, permissible temperature rise and test voltages. They are cylindrical in shape, made of conductors of a high conductivity, insulated by paper or enamel. Depending on the current and voltage, various winding types such as disc continuously wound, spiral, layer and interleaved type, are used.

Insulation

Basic insulation material are the pressboards mould into necessary shapes and transformer oil. Insulation between the windings and to earthing parts consists of oil and pressboard barriers shaped like cylinders and caps. Applied mineral oil is in accordance with the standard IEC 60296. Transformers filled with synthetic esters (e.g. MDEL 7131) are available on special request.

Ability to withstand short-circuit

Transformers are designed and manufactured in such a way to withstand short-circuit forces, which is proved by testing according to standard IEC 60076-5 or relevant calculations, respectively.

Noise

Noise level is measured according to standard IEC 60076-10. Transformers with reduced noise level are available on request.

Tank

Tank is made of steel sheets and is capable of withstanding a certain overpressure and vacuum without permanent deformations.

Corrosive protection

Since our transformers operate under different hard environmental conditions, series of actions are taken, in order to ensure proper corrosive protection. Finished tanks, covers and other metal parts are prepared and painted following ISO 12944 standard according to climate conditions C1 up to C5M.



**Ilocos Norte Electric Cooperative (INEC)
Badoc Substation, Ilocos Norte
10 MVA, 69/13.2 kV Turnkey Substation**



**Clark Electric Development Corporation (CEDC)
Clark, Pampanga
50 MVA, 69/13.8 kV Power Transformer**



**Zambales II Electric Cooperative, Inc. (ZAMECO II)
San Marcelino, Zambales
10MVA, 69/13.2 kV Turnkey Substation**

PPI Pazifik Power, Inc. (PPI) is an engineering firm engaged in the supply and installation of electrical products and solutions. The company has been in the industry for more than 25 years and has grown to be a reliable and high-quality power solutions provider trusted by utility companies, electric cooperatives, independent power producers, and commercial and industrial companies in the Philippines.

PPI provides a wide array of products and services, ranging from power transmission (instrument transformers, surge arresters, protective relays), to power distribution (substations, switchgears), electricity metering, test equipment (oil, power circuit breakers), power grid automation and protection, power conditioning, monitoring solutions, railway solutions, and engineering services.

PPI remains dedicated to its customers and the environment, providing efficient electricity solutions in every project it engages in, coupled with reliable and on-time service performance and aftersales support by its seasoned engineers.

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