

POWER TRANSFORMER USED IN POWER STATION



1. SFP10-370 MVA/220kV power transformer in Xinyang, China
2. SFFZ-50 MVA/220kV starting/spare transformer in Xinyang, China
3. SFP10-400 MVA/500kV power transformer in Zhungeer power plant, Inner Mongolia (main transformer)
4. SFFZ-40 MVA/220kV starting/spare transformer operating in Zhungeer
5. A set of transformers equipping for 300MW thermal power plant operating in Xinyang power plant, Henan, China



Generator transformer used in power station

Generator transformer is the key equipment for electric power generation and power transmission. The generator transformer, designed and manufactured by XD, fully complies with requirements of power design with its excellent performances of low loss, low noise, low partial discharge, good ability of short-circuit withstand, and reliable operation. The voltage class covers a range from 110 kV to 500 kV with the biggest capacity of 420 MVA for three-phase transformer. XD also provides single-phase generator transformer and various types of combined transformers capable of overcoming harsh transportation conditions. XD can provide varied products to match all kinds of thermal power sets and water power sets, such as 200MW, 250MW, 300MW and 600MW, etc. Among them, two new types of generator transformers of SFP10-370 MVA/220 kV and SFP9-420 MVA/220 kV have passed the appraisal for new products given by the National Machinery Department and the National Power Department. The specification and the performance of SFP10-400 MVA/500 kV power transformer have reached to the leading level in the world. SFP-160 MVA/420 kV transformer exported to Iraq is so far the product with the highest voltage level among all exported transformers in China, with its technical level has ranked in the international leading list.

Double split transformer used in power station

In order to meet the requirements of power stations for safety electric generation, XD specially designs and manufactures the radial double split transformer with low voltage, which enhances the ability of short circuit withstand of the transformer and the starting/spare transformer used in power station .

The voltage class covers a range from 35 kV to 220kV with a range of the capacity from 31.5 MVA to 63 MVA. Recently, XD has developed 50 MVA/330 kV axial double-split low voltage starting/spare transformer. And now XD Transformer is continuously working on the development of 330kV radial double split transformer.

Operating characteristics of low voltage transformer

- High short-circuit impedance between two LV windings, but the respect impedances between two LV windings and HV winding are equal and low.
- Split factor K is more than 4.5 normally
- Small unbalance between turns and good ability of short-circuit withstand.
- One of windings can work separately with high reliability.
- HV winding is located between two LV windings with balance force, which enhances the ability of short-circuit withstand.

