



## 陕西汉中变压器有限责任公司

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### 110kV Power Transformer Description

The oil immersed power transformer consists of core, coil, voltage regulator, oil tank, oil conservator, insulated oil and other protection and control components. Transformer is used for voltage stepping up or down and AC power transmission. Transformer also is the very important equipment for electrical grid, power generator system, industrial and mining factory, etc. Besides, it is an essential equipment in the long-distance transmission of electric power, so transformer workplaces generally are some rural areas and even wastelands. These working conditions require transformers to be high reliable. It just meets one of the most outstanding characteristic of our oil immersed power transformer, in the meantime, with low loss and high efficiency, our transformer severs electrical transmission smoothly.

### 110kV Power Transformer Characteristics

- **Good Mechanical Strength**  
Through software simulation, the weakness of structural parts are eliminated for improving the mechanical strength of structural parts. Manufacture by high strength steel plate. Using laser cutting equipment for processing, the deformation and stress are small.
- **High Earthquake Resistance**  
The dynamic design method is adopted for the bushing. The horizontal acceleration is set as 0.5g, the waveform is set as the resonant sinusoidal third harmonic, and the loading position is the lower end of the casing flange seat. The transformer main body adopts static design method, and the static horizontal acceleration is 0.5g.
- **Low Temperature Rise**  
The reasonable structure of oil flow distribution is adopted to reduce the winding hot spot temperature rise and average temperature rise. The winding of large capacity transformer is provided with axial oil passage. 3) Control the transverse eddy current loss of the winding.
- **High Resistance to Short Circuit**  
Short circuit mechanical force is calculated by dynamic analysis method. The self-viscous transposition conductor is used in low voltage, which effectively increases the short-circuit resistance. The machine body adopts constant pressure drying integrated type, and the integrated assembly adopts hot suit.