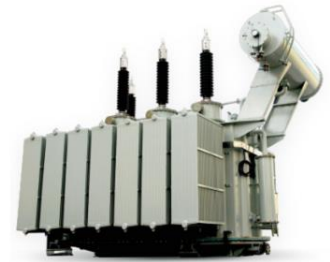


# 110kV Three-Phase Oil-Immersed Power Transformer

This 110kV transformer is characterized by its compact size, light weight, and high efficiency, resulting in reduced power grid loss and operational costs. It ensures dependable operation with low noise and minimal energy waste.



## Overview

### General description

The 110kV level Oil Immersed On-load Regulation Power Transformer has a series of big change in material, technical and construction with the characters of small size, light weight, high efficiency with low loss and low noise, stable operation which cutting down large number of loss from Energy GRID and operation charge, improving the industrial economic benefit. It is used in power plant, transformer substation, big-sized and chemistry factory and etc.

This product is according to National Standard: GB1094.1-1996 "Power transformer General Principle Part 1", in GB1094.2-1996 "Power Transformer Part 2: Temperature Rise", GB1094.3-2003 "Power Transformer Part 3: Insulation Level, Insulation Test and exterior air gap clearance", GB1094.5-2003 "Power Transformer Part 5: Ability to withstand short circuit", GB/T6451-2008 "Three phase Oil Immersed Power Transformer Technical Data Requirement."

### Environment conditions

Mounting Type: Outdoor  
 Ambient temperature: Highest air temperature +40°C, lowest air temperature -25°C, highest monthly average air temperature +30°C, highest annual average air temperature +20°C, water temperature at the water inlet of the water cooler is +25°C  
 Altitude: < 1000m (altitude > 1000m, the temperature rise will be different as normal)  
 Relative humidity: < 90% (25°C)  
 Requirement of Mounting Place: where without corrosive gas and obvious dust etc.  
 When inquiring or ordering, additional details are required for special service conditions

High-efficiency 110kV level transformer suitable for power plants and substation applications.

## High-Efficiency 110kV Power Transformer

This 110kV three-phase oil-immersed power transformer is engineered for reliable voltage regulation in power transmission and distribution networks. Featuring advanced on-load tap changer technology, it enables seamless voltage adjustments without interrupting power supply. Its robust, compact, and lightweight design is optimized for high efficiency, low noise, and minimal grid losses, making it an ideal solution for substations, power plants, and large-scale industrial facilities.

## Standards & Compliance

### National Standards Compliance

GB1094.1-1996, GB1094.2-1996, GB1094.3-2003, GB1094.5-2003, GB/T6451-2008

## Operating Environment

### Operating Conditions

- Mounting Type: Outdoor
- Ambient Temperature: -25°C to +40°C
- Average Monthly Temp: d+30°C
- Average Annual Temp: d+20°C
- Altitude: d1000m
- Relative Humidity: d90% (at 25°C)

## Technical Specifications

### Key Performance Metrics

**110 kV**

Rated Voltage

**6300 kVA**

Min Rated Capacity

**180000 kVA**

Max Rated Capacity

### Performance Data Summary (S10 Series)

Capacity (kVA)	No-Load Loss (kW)	Load Loss (kW)	Impedance Voltage (%)
6300	8.37	34.2	0.77
10000	11.88	50.35	0.72
25000	23.4	104.5	0.62
63000	46.8	222.3	0.48