

35kV Class Power Transformer

Ideal distribution equipment for urban and rural power grid centers



Available in On-Load Tap Changing (OLTC) and Off-Circuit Tap Changing (OCTC) series

Nomenclature

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Three-phase Forced Air Cooling (Natural Cooling omitted) On-Load Tap Changing (OCTC omitted) Technical level code Rated capacity (kVA) Voltage class (kV)

Product Overview

The 35kV series power transformers feature advanced design with significant improvements in materials, structure, and processing. The HV and LV clamping components are tightened using steel tension straps or upper and side beams to form a rigid frame structure. This enhances core clamping force and resistance to transport impacts. The series offers high short-circuit withstand capability, aesthetic appearance, reliable operation, low loss, and low noise, meeting the advanced standards of similar international products.

Our SZ13-20000/35 prototype successfully passed the sudden short-circuit test conducted by the National Transformer Quality Supervision and Inspection Center. The HV and LV coils utilize longitudinal oil ducts for heat dissipation, significantly reducing the temperature gradient between copper and oil, as well as the hot-spot temperature rise within the windings.

Executive Standards

GB 1094.1-2	<i>Power Transformers General; Temperature Rise</i>	GB/T 6451	<i>Technical Parameters and Requirements for Oil-Immersed Power Transformers</i>
GB 1094.3	<i>Insulation Levels, Dielectric Tests and External Clearances in Air</i>	GB/T 15164	<i>Loading Guide for Oil-Immersed Power Transformers</i>
GB 1094.5	<i>Ability to Withstand Short Circuit</i>	GB 2536	<i>Fluids for Electrotechnical Applications – Unused Mineral Insulating Oils for Transformers and Switchgear</i>

The latest editions of the above and other relevant national or professional standards shall prevail.