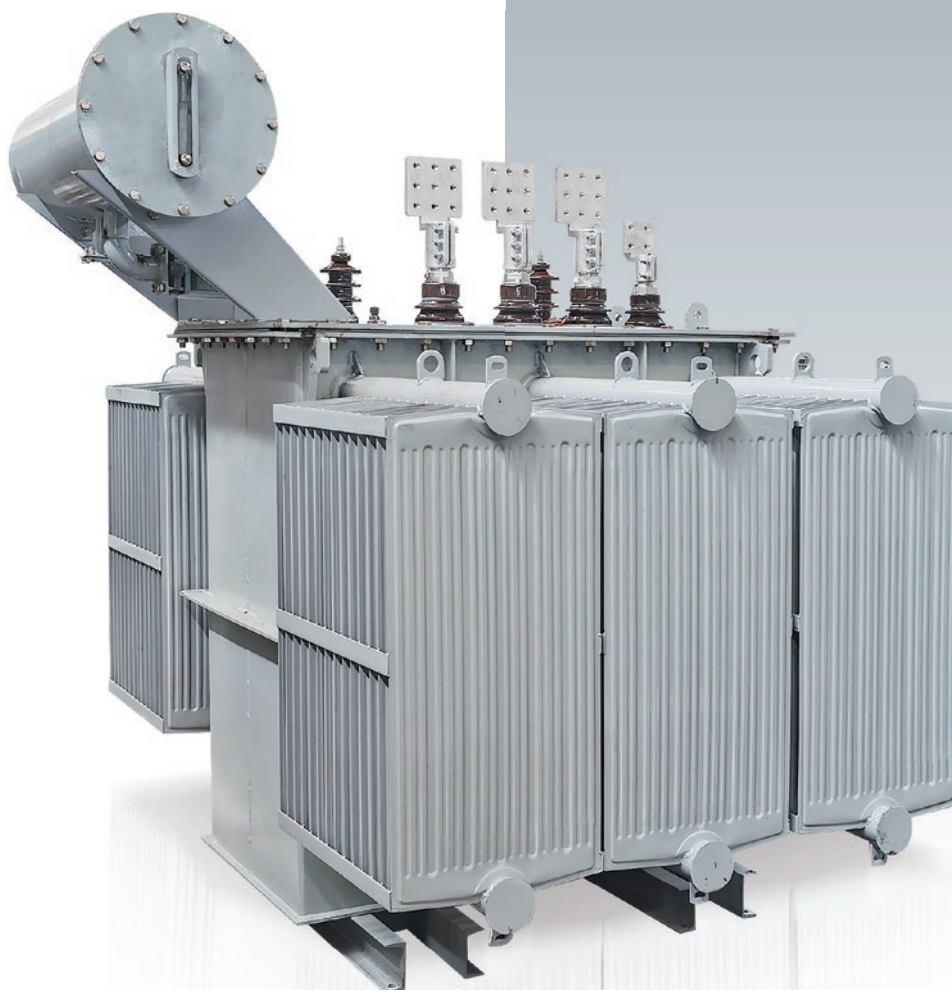


HIGH VOLTAGE COMPONENTS SERIES

35KV

Oil-immersed transformer



Overview

This series of products are more advanced in design and have been greatly improved in material, structure and technology. High and low pressure clamps are made of steel strip or upper beam and side beam, forming a strong frame structure to enhance the clamping force of iron core and its resistance to transportation impact. Strong short circuit resistance, beautiful appearance, reliable operation, low loss, low noise, reach the advanced level of similar products abroad.

35KV

Oil-immersed transformer

Model meaning

S	□	□	□	-	□	/	□
↓	↓	↓	↓		↓		↓
Three-Phase	"F" is no code for air cooling	No excitation voltage regulation no code "Z" is load regulation	Performance Level Code-Name		Rated Capacity (kVA)		Voltage Grade (kV)

Execution standard

GB 1094.1~2	《General Provisions Of Power Transformers》 《Temperature Length Of Oil-Immersed Transformer》
GB 1094.3	《Insulation Level, Insulation Test And External Insulation Air Gap》
GB 1094.5	《Capacity Of Electrical Transformers To Withstand Short Circuits》
GB/T 6451	《Technical Parameters And Requirements Of Oil-Immersed Power Transformer》
GB/T 15164	《Load Guide For Oil-Immersed Power Transformers》
GB2536	《Transformer Oil》

Conditions of use

- Ambient Temperature: Maximum +40°C , Minimum -25°C (outdoor) / -5°C (Indoor).
- Altitude: Not exceeding 1000 meters above sea level.
- Relative Humidity: Daily average ≤ 95%, Monthly average ≤ 90%.
- Seismic Intensity: Not exceeding 8 degrees.
- Installation Environment: Free from fire, explosion hazards, severe pollution, chemical corrosion, or violent vibration.
- Cooling Method: ONAN (Oil Natural Air Natural) or ONAF (Oil Natural Air Forced).
- Rated Frequency: 50Hz or 60Hz.
- System Voltage Level: Rated voltage 35kV, matching system requirements.

Product Features of 35kV Oil-Immersed Transformer

Feature	Description
High Efficiency	The transformer adopts low-loss silicon steel sheets and optimized design to achieve low no-load loss and low load loss.
Excellent Insulation Performance	High-quality insulating materials and advanced vacuum drying and oil-filling processes ensure reliable insulation.
Strong Overload Capacity	The transformer is designed to withstand short-term overloads and has strong thermal stability.
Low Noise	Optimized magnetic circuit design and quality materials reduce operational noise effectively.
Long Service Life	High mechanical strength, strong resistance to mechanical impact and environmental adaptability, ensuring long-term stable operation.

S13 35kV Oil immersed power transformer

Rated capacity (kVA)	Voltage combination and tap range			Vector group symbol	No-load loss(W)	Load loss (W)	No-load current (%)	Short circuit impedance (%)
	High pressure (kV)	High pressure tap range (%)	Low pressure (kV)					
50	35 38.5	$\pm 5\%$ $\pm 2 \times 2.5\%$	0.4	Dyn11 Yyn0	130	1200/1140	1.30	6.5
100					185	2010/1910	1.10	6.5
125					215	2370/2260	1.10	6.5
160					225	2820/2680	1.00	6.5
200					270	3320/3160	1.00	6.5
250					320	3950/3760	0.95	6.5
315					385	4750/4530	0.95	6.5
400					465	5740/5470	0.85	6.5
500					545	6910/6580	0.85	6.5
630					665	7860	0.65	6.5
800					785	9400	0.65	6.5
1000					920	11500	0.65	6.5
1250					1120	13900	0.60	6.5
1600					1350	16600	0.60	6.5

Note:

1, according to the requirements of high voltage transformer tap range for $\pm 2 \times 2.5\%$.

2, other capacity product performance parameters, determined by the user in consultation with the manufacturer.

SZ11 35kV On-load tap change oil immersed power transformer

Rated capacity (kVA)	Voltage combination and tap range			Vector group symbol	No-load loss(W)	Load loss (W)	No-load current (%)	Short circuit impedance (%)
	High pressure (kV)	High pressure tap range (%)	Low pressure (kV)					
2000	35	±3×2.5	6.3 10.5	Yd11	2300	19240	0.80	6.5
2500					2720	20640	0.80	6.5
3150					3230	24710	0.72	7.0
4000					3870	29160	0.72	7.0
5000	35~38.5	±3×2.5	6.3 10.5		4640	34200	0.68	7.0
6300					5630	36770	0.68	7.5
8000					7870	40610	0.60	7.5
10000					9280	48050	0.60	8.0
12500	35~38.5	±3×2.5	6.3 6.6 10.5 11	Ynd11	10940	56860	0.56	8.0
16000					13170	70320	0.54	8.0
20000					15570	82780	0.54	8.0