



110kV Series Power Transformer

Product Features

- 1 High Anti Short Circuit, Good Mechanical Property;
- 2 Low Loss, Low Partial Discharge, Low Noise;
- 3 No Leakage, Free Hoisting, Safe And Reliable;
- 4 Advanced Structure, Convenient Maintenance.

S10、S11 Series 110kV Power Transformer

6300KVA-180000KVA 3-Phase Duplex Winding Off-load Tap-Changing Power Transformer

Rated capacity (kVA)	Voltage Combination and Tap Range		Vector group Symbol	S10		S11		No-load current (%)	Short-Circuit Impedance Voltage (%)
	HV (kV)	LV (kV)		No-load loss kW	Load loss kW	No-load loss kW	Load loss kW		
6300	110 ± 2X2.5% 121 ± 2X2.5%	6.3 6.6 10.5 11	Ynd11	8.37	34.20	6.70	32.49	0.77	10.5
8000				10.08	42.75	8.06	40.61	0.77	
10000				11.88	50.35	9.50	47.83	0.72	
12500				14.04	59.85	11.23	56.86	0.72	
16000				16.92	73.15	13.53	69.49	0.67	
20000				19.80	88.35	15.84	83.93	0.67	
25000				23.40	104.50	18.72	99.28	0.62	
31500				27.72	126.35	22.17	120.03	0.60	
40000				33.12	148.20	26.50	140.79	0.56	
50000				39.60	184.30	31.68	175.08	0.52	
63000				46.80	222.30	37.44	211.18	0.48	
75000				13.8 15.75 18 20	53.10	264.10	42.48	250.89	
90000	61.20	304.00	48.96		288.80	0.38			
120000	76.32	377.15	61.05		258.29	0.34			
150000	90.18	448.40	72.14		425.98	0.30			
180000	101.25	505.40	81.00		480.13	0.25			

Note

1. -5% tap position is the maximum current tap
2. For step-up transformers, non-tap structure is suitable. According to requirements, taps can be set.

6300KVA-63000KVA 3-Phase 3-Winding Off-load Tap-Changing Power Transformer

Rated capacity (kVA)	Voltage Combination and Tap Range			Vector group Symbol	S10		S11		No-load current (%)	Short-Circuit Impedance Voltage (%)	
	HV (kV)	MV (kV)	LV (kV)		No-load loss kW	Load loss kW	No-load loss kW	Load loss kW		Step up	Step down
6300	110 ± 2 X2.5%, 121 ± 2 X2.5%	35 37 38.5	6.3 6.6 10.5 11	YNyn0d11	10.08	44.65	8.06	42.42	0.82	17.5-18.5 10.5 6.5	10.5 17.5-18.5 6.5
8000					11.97	53.20	9.58	50.54	0.78		
10000					14.22	62.70	11.38	59.57	0.74		
12500					16.56	74.10	13.24	70.40	0.70		
16000					20.16	90.25	16.13	85.74	0.66		
20000					23.76	106.40	19.00	101.08	0.65		
25000					27.72	126.35	22.17	120.03	0.60		
31500					33.12	149.15	26.50	141.69	0.60		
40000					39.24	179.55	31.39	170.57	0.55		
50000					46.80	213.75	37.44	203.06	0.55		
63000					55.44	256.50	44.35	243.68	0.50		

Note

1. High, medium and low voltage winding capacity distribution (100/100/100)%;
2. According to requirements, the vector group can be YNd11 y10
3. According to requirements, medium voltage can choose different voltage from the value listed in the table or set taps.
4. -5% tap position is the maximum current tap.
5. For step-up transformers, non-tap structure is suitable. According to requirements, taps can be set.

SZ10、SZ11 Series 110kV Power Transformer

6300KVA-63000KVA 3-Phase Duplex Winding On-Load Tap-Changing Power Transformer

Rated capacity (kVA)	Voltage Combination and Tap Range		Vector group Symbol	SZ10		SZ11		No-load current (%)	Short-Circuit Impedance Volutag (%)
	HV (kV)	LV (kV)		No-load loss kW	Load loss kW	No-load loss kW	Load loss kW		
6300	110 ± 8x 1.25%	6.3 6.6 10.5 11	YNd11	9.00	34.20	7.20	32.49	0.80	10.5
8000				10.80	42.75	8.64	40.61	0.80	
10000				12.78	50.35	10.22	47.83	0.74	
12500				15.12	59.85	12.09	56.86	0.74	
16000				18.18	73.15	14.54	69.49	0.69	
20000				21.60	88.35	17.28	83.93	0.69	
25000				25.56	104.50	20.45	99.28	0.64	
31500				30.42	126.35	24.34	120.03	0.64	
40000				36.36	148.20	29.09	140.79	0.58	
50000				43.02	184.30	34.42	175.09	0.58	
63000				51.12	222.30	40.90	211.19	0.52	

Note

1. For on-load tap-changing transformers, now only step-down structure products are provided.
2. According to requirements, other voltage combination can be provided.
3. -10% tap position is the maximum current tap.

6300KVA-63000KVA 3-Phase 3-Winding On-Load Tap-Changing Power Transformer

Rated capacity (kVA)	Voltage Combination and Tap Range			Vector group Symbol	SZ10		SZ11		No-load current (%)	Short-Circuit Impedance Voltage (%)
	HV (kV)	MV (kV)	LV (kV)		No-load loss kW	Load loss kW	No-load loss kW	Load loss kW		
6300	110 ± 8X 1.25%	35 37 38.5	6.3 6.6 10.5 11	YNyn0d11	10.80	44.65	8.64	42.41	0.95	10.5 175-185 6.5
8000					12.96	53.20	10.36	50.54	0.95	
10000					15.39	62.70	12.31	59.57	0.89	
12500					18.18	74.10	14.54	70.36	0.89	
16000					21.78	90.25	17.42	85.74	0.84	
20000					25.74	106.40	20.59	101.08	0.84	
25000					30.42	126.35	24.34	120.03	0.78	
31500					36.18	149.15	28.94	141.69	0.78	
40000					43.38	179.55	34.70	170.57	0.73	
50000					51.21	213.75	40.97	203.06	0.73	
63000					60.93	256.50	48.74	243.68	0.67	

Note

1. For on-load tap-changing transformers, now only step-down structure products are provided.
2. High, medium and low voltage winding capacity distribution (100/100/100)%.
3. According to requirements, the vector group can be YNd11y10.
4. -10% tap position is the maximum current tap. Note 5: According to requirements, medium voltage can choose different voltage from the value listed in the table or set taps.

S10、S11 Series 110kV Power Transformer

6300KVA-63000KVA 3-Phase Duplex Winding LV 35kV Off-load Tap-Changing Power Transformer

Rated capacity (kVA)	Voltage Combination and Tap Range		Vector group Symbol	SZ10		SZ11		No-load current (%)	Short-Circuit Impedance Voltage (%)
	HV (kV)	LV (kV)		No-load loss kW	Load loss kW	No-load loss kW	Load loss kW		
6300	110 ± 2x2.5% 121 ± 2x2.5%	35 37 38.5	YNd11	9.00	37.05	7.20	35.20	0.84	10.5
8000				10.80	44.65	8.64	42.12	0.84	
10000				12.60	52.25	10.08	49.64	0.78	
12500				14.76	62.70	11.81	59.57	0.78	
16000				17.64	76.95	14.11	73.10	0.72	
20000				20.88	94.05	16.70	89.35	0.72	
25000				24.66	110.20	19.73	104.69	0.67	
31500				29.16	133.00	23.33	126.35	0.67	
40000				34.74	155.80	27.79	148.01	0.61	
50000				41.58	193.80	33.26	184.11	0.61	
63000				49.14	232.75	39.31	221.11	0.56	

Note: 1. Products with capacity not included in this form will be also available based on the requirement of the user and their performance data will rely on specific requirement.

2. We can provide products with special design according to different operation environment.
3. Customers can suggest their requirement of MV and tap range besides the value in the form and the unsymmetry tap range are available for HV tap regulation choice.
4. Different Impedance Voltage Value are available for customers choice besides the value in the form.
5. The final dimension will be subject to the drawing which designed after the contract signs.