



PRODUCT MANUAL version 2024-01EN

POWER TRANSFORMER



HENGFENGYOU ELECTRIC
Smart Electric Global Service provider
Make life better!

01

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ABOUT HENGFENGYOU ELECTRIC

HENGFENGYOU ELECTRIC GROUP, is an electrical enterprise with transmission and distribution industry as its main business, integrating product research and development, manufacturing and trade. Designated suppliers for the world's top 500 enterprises. Its main products include power transformers, medium and low voltage switchgear, distribution panel, circuit breakers, transmission tower, Cable and other power distribution equipment. The group has five departments: Transformer department, Panel department, power transmission tower department, cable department and electrical engineering department. HENGFENGYOU ELECTRIC GROUP has been working hard to provide the best transmission, distribution solutions for users all over the world.

Key figures

- Since: 1990
- Revenue in 2018: 635 million yuan
- 550 employees and 30 Electrical Engineers
- 6 production sites in China
- 6% of revenue is invested in R &D

Power Transformer solutions that drive the global energy transition

With energy demand expanding in both developed and emerging countries, the challenge for HENGFENGYOU Group is to connect energy with people. The group's teams work as closely as possible with projects and decision makers and design and propose technical and process solutions based on global user needs.



HENGFENGYOU ELECTRIC

• Business area

HENGFENGYOU ELECTRIC GROUP designs, manufactures and sells global solutions and equipment for public utilities and private medium and low voltage distribution networks.

Hengfengyou Electric Group's business area is global power distribution equipment demand, fully meet the different power distribution equipment demand of more than 50 countries around the world.

• Grow business with Hengfengyou

Our goal is to become the world's leading manufacturer of electrical equipment. The business, experience and technology accumulated over the years have benefited customers in more than 50 countries around the world. Once our customers establish a cooperative relationship, they are long-term trusted customers, because HENGFENGYOU ELECTRIC GROUP always insists on providing you with our best electrical products and services.

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• The team energy

The HENGFENGYOU ELECTRIC team achieves synergy within the team to develop and produce specific solutions that meet all customer needs.

Our equipment is designed and researched by R&D services according to each country's electrical standards and helps manage your distribution network for optimal efficiency.

HENGFENGYOU's state-of-the-art production workshop and production equipment will produce high quality products according to your specifications.

HENGFENGYOU ELECTRIC GROUP has a certified quality control laboratory where electrical products are tested out of factory to ensure the reliability and optimal life of our products.

• Innovative development

For more than 30 years, HENGFENGYOU ELECTRIC GROUP has been designing innovative power distribution solutions to improve network security, optimize facility efficiency and become more environmentally friendly.

Every year, HENGFENGYOU ELECTRIC GROUP spends 6% of its revenue on research and development and innovation of energy saving development of distribution transformers; Intellectualization of distribution boards and substations; Research, development and improvement of transmission tower and cable materials. The R&D division has more than 30 engineers and technicians dedicated to designing and deploying new electrical solutions. Continuously meet the global demand for energy saving and intelligent electrical.

Qingdao International academician port Qingdao MINGSI is introduced as the strategic partner of Technology Co., Ltd. to provide smart power consumption solutions for global users. Through the intelligent monitoring of the Internet of things system, it can realize the remote monitoring, early warning, control and management of enterprise power transmission and distribution equipment and power consumption equipment, and finally achieve the goal of reducing fire accidents, reducing operating costs, and improving enterprise management efficiency.



智能电气全球服务提供商, 让生活更美好

SMART ELECTRIC GLOBAL SERVICE PROVIDER, MAKE LIFE BETTER

FIRST CLASS PRODUCTION EQUIPMENT AND TESTING EQUIPMENT





▲ 装配架 Mounting Rack



▲ 环氧真空浇注设备
Epoxy Vacuum Pouring Machines



▲ 电容塔 Capacitance Tower



▲ 双极高真空净油设备
Double Extremely High Vacuum Net Oil Equipment



▲ 煤油汽相干燥设备
Kerosene Vapor Drying Equipment

66KV OIL IMMERSED POWER TRANSFORMER

PRODUCT OVERVIEW



Oil immersed power transformer is an electrical appliance that uses insulating oil as insulating medium and is composed of iron core, coil, voltage regulating switch and oil tank to change voltage and transmit AC energy. It has the characteristics of small size, low price and strong weather resistance. It is applicable to power system, industrial and mining enterprises, transportation, post and telecommunications departments, scientific research institutions, etc. The company has a rich product series, including laminated iron core series, rolled iron core series, amorphous alloy series and other products below 110KV. The structure is flexible and diverse, beautiful in appearance, and can meet the needs of different users.

PRODUCT FEATURES

Iron core

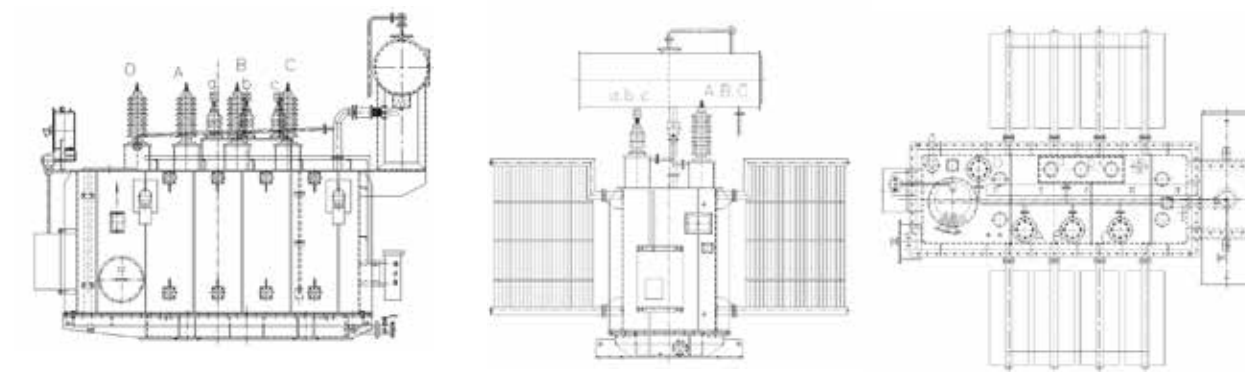
All of them adopt high-quality grain oriented cold-rolled silicon steel sheet, full oblique non hole binding structure, and the iron core is multi-stage ladder shape, with three or five joints, low air loss and low noise; The wound iron core is directly wound by special equipment, without joint and angle weight, reducing magnetic resistance and low air loss; The amorphous alloy transformer core is a better core material. Compared with the traditional silicon steel sheet, the average air loss is reduced by 72% and the no-load current is reduced by 50%.

coil

It is made of high-quality QQ acetal enamelled round copper wire and flat copper wire drawn by oxygen-free copper rod. Its forms include round simple type, continuous type, new spiral type, split type, etc. it has sufficient electrical strength, mechanical strength and heat dissipation capacity. In order to increase the short-circuit resistance of the transformer, a better self-adhesive transposition conductor can be used. The self-adhesive acetal enamelled flat wire is used. After being wound into a coil, the heated enamelled flat wires are bonded to each other to form a rigid coil, which can withstand greater bending stress, thus enhancing the short-circuit resistance of the transformer. The biggest characteristic of the self-adhesive transposition conductor is that it can reduce the loss of the transformer. Because of the transposition of the multi strand split conductor, the eddy current loss and the circulating current loss are greatly reduced, the temperature rise of the hot spot of the winding can be reduced, and the temperature distribution of the whole winding can be more uniform.

66KV OIL IMMERSED POWER TRANSFORMER

TECHNICAL PARAMETER



Specification of power transformer could be customized

• s (f) 11 series 66kV three-phase oil immersed self cooling (air cooling) double winding non excitation voltage regulating power transformer

model number	rated capacity (KVA)	Voltage combination (KV)	Vector Group	impedance voltage (%)	total weight (t)	measure(mm)	no-load loss (w)	load loss (w)
S(F)11-6300/66	6300	H.V. 35-38.5 $\pm 2 \times 2.5\%$	YNd11	9	20	4800*3900*4000	7.3	34.2
S(F)11-8000/66	8000				22	4900*4100*4200	8.9	40.5
S(F)11-10000/66	10000				25	5000*4300*4400	10.5	47.8
S(F)11-12500/66	12500				28	5100*4400*4500	12.4	56.8
S(F)11-16000/66	16000				30	5200*4600*4600	15	69.8
S(F)11-20000/66	20000	L.V. 3.15,3.3,6.3, 6.6,10.5	YNd11	9	34	5300*4700*4800	17.6	84.6
S(F)11-25000/66	25000				41	5500*4700*5000	20.8	100
S(F)11-31500/66	31500				46	5600*4800*5200	24.6	120
S(F)11-40000/66	40000				57	5800*5000*5300	29.4	141
S(F)11-50000/66	50000				67	6000*5300*5500	35.2	167
S(F)11-63000/66	63000				73	6200*5600*5700	41.6	198

• s (f) 11 series 66kV three-phase oil immersed self cooled (air cooled) double winding on load voltage regulating power transformer

model number	rated capacity (KVA)	Voltage combination (KV)	Vector Group	impedance voltage (%)	total weight (t)	measure(mm)	no-load loss (w)	load loss (w)
S(F)11-6300/66	6300	H.V. 35-38.5 $\pm 2 \times 2.5\%$	YNd11	9-11	22	5600*3800*4000	8	34.2
S(F)11-8000/66	8000				24	5700*4000*4200	9.6	40.5
S(F)11-10000/66	10000				27	5800*4200*4400	11.3	47.8
S(F)11-12500/66	12500				30	5900*4300*4500	13.4	56.8
S(F)11-16000/66	16000				33	6000*4400*4600	16.1	69.8
S(F)11-20000/66	20000	L.V. 3.15,3.3,6.3, 6.6,10.5	YNd11	9-11	36	6100*4500*4800	19.2	84.6
S(F)11-25000/66	25000				43	6500*4500*5000	22.7	100
S(F)11-31500/66	31500				49	6600*4600*5200	26.9	120
S(F)11-40000/66	40000				59	6800*4800*5300	32.2	141
S(F)11-50000/66	50000				69	7000*5000*5500	38	167
S(F)11-63000/66	63000			10-12	75	7400*5300*5700	44.9	198

110KV OIL IMMERSED POWER TRANSFORMER

PRODUCT OVERVIEW



Core

The magnetic conductive material of the iron core is high-quality cold-rolled silicon steel sheet with grain orientation. In order to reduce the no-load loss and no-load current, the iron core of all products is of 45 ° full oblique seam non porous structure, the core column is bound with epoxy glass adhesive tape, and the upper and lower iron yokes are tensioned through the tension band, upper beam and pad foot on the clamp. The iron core uses the low-magnetic steel pull plates on both sides of the core column to firmly connect the upper and lower clamps to form a rigid frame structure, which improves the stability and enhances the ability of the transformer to withstand short circuit.

Winding

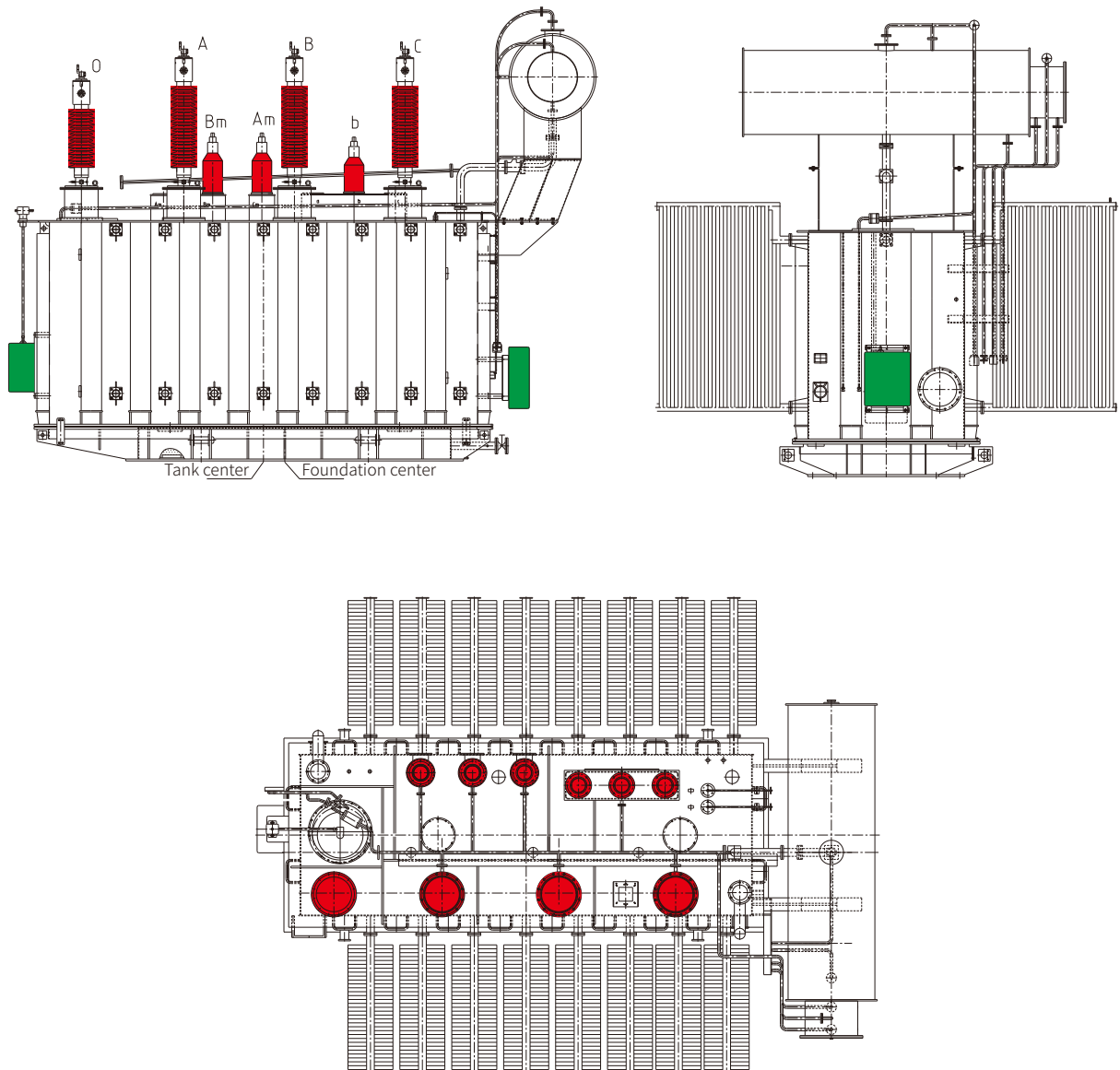
The winding adopts the twisted continuous or inner shielding structure, which effectively improves the impulse voltage distribution and obtains better impulse characteristics. Large capacity products adopt composite wires, effectively reducing eddy current loss. The stay bar and oil gap pad of the winding are rounded to improve the electrical insulation strength. Ansen in the section is distributed in pingjie, with small short-circuit force and strong dynamic stability. The on load voltage regulating transformer is usually provided with a separate voltage regulating coil, so that the ampere turns of each coil can be completely balanced, effectively eliminating the axial electric force caused by the external short circuit of the transformer. There is an oil guide structure inside the winding to reduce the coil temperature rise, reduce the hot spot temperature, and extend the insulation life.

Tank

The structural type of the oil tank is a fully sealed bell type structure with high mechanical strength. In order to facilitate maintenance and overhaul, the top of bell type oil tank adopts trapezoidal top or flat top structure. The radiator is a chip radiator with high heat dissipation efficiency and beautiful appearance.

110KV OIL IMMERSED POWER TRANSFORMER

TECHNICAL PARAMETER



Specification of power transformer could be customized

110KV OIL IMMERSED POWER TRANSFORMER

TECHNICAL PARAMETER

• S (f) 11 series 110kV three-phase oil immersed self cooling (air cooling) double winding low voltage 10kV non excitation voltage regulating power transformer

model number	rated capacity (KVA)	Voltage combination (KV)	Vector Group	impedance voltage (%)	total weight (t)	measure(mm)	no-load loss (w)	load loss (w)
S(F)11-6300/110	6300	H.V. 110,115,121 ±2×2.5% L.V. 6.3,6.6,10.5	YNd11	10.5	21	5000*3900*4200	7.4	35
S(F)11-8000/110	8000				23	5100*4100*4400	8.9	42
S(F)11-10000/110	10000				26	5200*4300*4600	10.5	50
S(F)11-12500/110	12500				29	5300*4400*4700	12.4	59
S(F)11-16000/110	16000				31	5400*4600*4800	15	73
S(F)11-20000/110	20000				35	5500*4700*5000	17.6	88
S(F)11-25000/110	25000				42	5700*4700*5200	20.8	104
S(F)11-31500/110	31500				47	5800*4800*5400	24.6	123
S(F)11-40000/110	40000				58	6000*5000*5500	29.4	148
S(F)11-50000/110	50000				68	6200*5300*5700	35.2	175
S(F)11-63000/110	63000	H.V. 110,115,121 ±2×2.5% L.V. 13.8,15.75,18.21	YNd11	12-14	74	6400*5600*5900	41.6	208
S(F)11-75000/110	75000				83	6500*5900*6200	47.2	236
S(F)11-90000/110	90000				94	6800*6300*6400	54.4	272
S(F)11-120000/110	120000				118	7000*6700*6600	67.8	337

• S (f) 11 series 110kV three-phase oil immersed self cooling (air cooling) double winding low voltage 35kV non excitation voltage regulating power transformer

model number	rated capacity (KVA)	Voltage combination (KV)	Vector Group	impedance voltage (%)	total weight (t)	measure(mm)	no-load loss (w)	load loss (w)
S(F)11-6300/110	6300	H.V. 110, 115, 121 ±2×2.5% L.V. 6.3, 6.6, 10.5	YNd11	10.5	22	5000*3900*4200	8	37
S(F)11-8000/110	8000				23	5100*4100*4400	9.6	44
S(F)11-10000/110	10000				26	5200*4300*4600	11.2	52
S(F)11-12500/110	12500				29	5300*4400*4700	13.1	62
S(F)11-16000/110	16000				31	5400*4600*4800	15.6	76
S(F)11-20000/110	20000				35	5500*4700*5000	18.5	94
S(F)11-25000/110	25000				42	5700*4700*5200	21.9	110
S(F)11-31500/110	31500				47	5800*4800*5400	25.9	133
S(F)11-40000/110	40000				58	6000*5000*5500	30.8	155
S(F)11-50000/110	50000				68	6200*5300*5700	36.9	193
S(F)11-63000/110	63000				74	6400*5600*5900	43.6	232

110KV OIL IMMERSED POWER TRANSFORMER

TECHNICAL PARAMETER

• S (f) Z11 series 110 kV Three-Phase oil immersed self cooling (air cooling) double winding on load voltage regulating power transformer

model number	rated capacity (KVA)	Voltage combination (KV)	Vector Group	impedance voltage (%)	total weight (t)	measure(mm)	no-load loss (w)	load loss (w)
S(F)Z11-6300/110	6300	H.V. 110 $\pm 8 \times 1.25\%$ L.V. 6.3, 6.6, 10.5, 1	YNd11	10.5	24	5800*3900*4200	8	35
S(F)Z11-8000/110	8000				26	5900*4100*4400	9.6	42
S(F)Z11-10000/110	10000				29	6000*4300*4600	11.3	50
S(F)Z11-12500/110	12500				32	6100*4400*4700	13.4	59
S(F)Z11-16000/110	16000				36	6200*4600*4800	16.1	73
S(F)Z11-20000/110	20000				39	6300*4700*5000	19.2	88
S(F)Z11-25000/110	25000				46	6700*4700*5200	22.7	104
S(F)Z11-31500/110	31500				52	6800*4800*5400	27	123
S(F)Z11-40000/110	40000			12-18	63	7000*5000*5500	32.3	156
S(F)Z11-50000/110	50000				74	7200*5300*5700	38.2	194
S(F)Z11-63000/110	63000				81	7600*5600*5900	45.4	232

• S (f) S11 series 110 kV Three-Phase oil immersed self cooling (air cooling) three winding non excitation voltage regulating power transformer

model number	rated capacity (KVA)	Voltage combination (KV)	Vector Group	impedance voltage (%)	total weight (t)	measure(mm)	no-load loss (w)	load loss (w)
S(F)S11-6300/110	6300	H.V. 110, 115, 121 $2 \times 2.5\%$ M.V. 36,37,38.5 L.V. 6.3, 6.6, 10.5, 21	YNyn0 d11	H.V.-L.V. 18-19	27	5300*4100*4200	8.9	44
S(F)S11-8000/110	8000				31	5400*4300*4400	10.6	53
S(F)S11-10000/110	10000				33	5500*4500*4600	12.6	62
S(F)S11-12500/110	12500				39	5600*4600*4700	14.7	74
S(F)S11-16000/110	16000			H.V.-M.V. 10.5	45	5700*4800*4800	17.9	90
S(F)S11-20000/110	20000				51	5800*4900*5000	21.1	106
S(F)S11-25000/110	25000				56	6000*4900*5200	24.6	126
S(F)S11-31500/110	31500			M.V.-L.V. 6.5	62	6100*5000*5400	29.4	149
S(F)S11-40000/110	40000				73	6300*5200*5500	34.8	179
S(F)S11-50000/110	50000				80	6500*5500*5700	41.6	213
S(F)S11-63000/110	63000				97	6700*5800*5900	49.2	256

• S (f) ZS11 series 110 kV Three-Phase oil immersed self cooled (air cooled) three winding on load voltage regulating power transformer

model number	rated capacity (KVA)	Voltage combination (KV)	Vector Group	impedance voltage (%)	total weight (t)	measure(mm)	no-load loss (w)	load loss (w)
S(F)SZ11-6300/110	6300	H.V. $110 \pm 8 \times 1.25\%$ M.V. 36,37,38.5 L.V. 6.3, 6.6, 10.5, 21	YNyn0 d11	H.V.-L.V. 18-19	30	6100*4100*4200	9.6	44
S(F)SZ11-8000/110	8000				34	6200*4300*4400	11.5	53
S(F)SZ11-10000/110	10000				36	6300*4600*4600	13.6	62
S(F)SZ11-12500/110	12500				42	6400*4600*4700	16.1	74
S(F)SZ11-16000/110	16000			H.V.-M.V. 10.5	49	6500*4800*4800	19.3	90
S(F)SZ11-20000/110	20000				55	6600*4900*5000	22.8	106
S(F)SZ11-25000/110	25000				60	7000*4900*5200	27	126
S(F)SZ11-31500/110	31500			M.V.-L.V. 6.5	67	7100*5000*5400	32.1	149
S(F)SZ11-40000/110	40000				78	7300*5200*5500	38.5	179
S(F)SZ11-50000/110	50000				86	7500*5500*5700	45.5	213
S(F)SZ11-63000/110	63000				104	7900*5800*5900	54.1	256

220KV OIL IMMERSED POWER TRANSFORMER

PRODUCT OVERVIEW



The 220kV power transformer produced by hengfengyou electric adopts the folded plate oil tank structure of 110kV power transformer, which makes the product structure more reasonable and convenient for on-site installation and hanging inspection. At the same time, combined with the company's years of transformer production and design experience, the reliability and performance indicators of the products have reached the international advanced level. After continuous improvement and improvement, a series of products have been formed. The product series includes three-phase double winding and three winding non excitation voltage regulating transformer, on load voltage regulating transformer and autotransformer.

PRODUCT FEATURES

- 1) Super anti sudden short circuit capability of transformer
- 2) Reduce load loss through accurate leakage magnetic field calculation
- 3) Low partial discharge and low noise
- 4) The coil of high-quality oxygen-free copper wire, self-adhesive transposition wire and six sided positioning are adopted to ensure the high strength of the product
- 5) The iron chip is made of Hi-B silicon steel sheet with high quality and excellent performance. It is sheared by the CNC controlled gear core shear line and rounded
- 6) Fully enclosed structure oil tank, special sealing structure design, to ensure the product service life of 30 years, maintenance free operation
- 7) The advanced kerosene gas-phase drying equipment is used to thoroughly dry the transformer, and the full vacuum oil injection process is used to ensure the insulation performance of insulating parts and oil, so that the safety and reliability of the transformer are greatly improved.

220KV OIL IMMERSSED POWER TRANSFORMER

TECHNICAL PARAMETER

S11 series 220kV three-phase double winding non excitation voltage regulating power transformer

Rated capacity	Voltage combination and tap range		Vector Group	no-load loss (kw)	load loss (kw)	no-load current(%)	off-impedance (%)
	H.V.	L.V.					
31500	220 $\pm 2 \times 2.5\%$	6.3	Ynd11	28	128.3	0.5	12-14
40000		6.6		32.8	149.2	0.5	
50000		10.5		39.2	179.6	0.45	
63000		11		46.4	209.0	0.45	
75000		10.5		53.6	237.5	0.4	
90000		11		61.6	273.6	0.35	
120000		13.8		75.2	327.8	0.35	
150000		11		89.6	384.8	0.3	
160000		13.8		93.6	403.8	0.29	
180000		15.75		102.4	436.1	0.26	
240000	242 $\pm 2 \times 2.5\%$	18.20	Ynd11	128.0	538.7	0.22	12-14
300000				151.2	641.3	0.18	
360000				173.6	735.3	0.18	
370000				176.8	750.5	0.18	
400000				187.2	795.2	0.15	
420000				193.6	824.6	0.15	

S11 series 220kV three-phase three winding on load voltage regulating power transformer

Rated capacity	Voltage combination and tap range			Vector Group	no-load loss (kw)	load loss (kw)	no-load current(%)	off-impedance (%)
	H.V.	M.V.	L.V.					
31500	220 $\pm 8 \times 1.25\%$	69 115 121	6.3	YNyn0d11	35.2	153.9	0.57	HV-MV 12-14
40000			6.6		41.6	179.6	0.50	
50000			10.5		48	213.8	0.43	
63000			11		56	248.0	0.43	HV-LV 22-24
90000			35		73.6	333.5	0.36	
120000			37		92	410.4	0.36	
150000			38.5		108	487.4	0.29	MV-LV 7-9
180000			10.5 11 13.8 35 37 38.5		124.8	598.5	0.28	
240000					154.4	741.0	0.25	

QUALITY CONTROL

- HENGFENGYOU has formulated strict workflow and ISO standards to ensure to provide customers with first-class Power Transformer and the best service.
- The HENGFENGYOU team works collaboratively within the team to develop and produce, Power Transformer solutions that meet all customer needs.
- Our products are designed and studied by R & D services according to the electrical standards of each country and help manage your distribution network for optimal efficiency.



MANUFACTURING FACILITIES

No.	Name	Specification	Q' ty	Origin
1	Vapor Phase Drying Equipment	VP400KW	3 set	Micafil
2	Vapor Phase Drying Equipment	VP400KW	1 set	Micafil
3	Slitting Line	KS125/250x1000	2 sets	Germany
4	Cut-to-length Line	TBA/10000x500	1 set	Germany
5	Numerical Control Hydraulic Bending Machine	PPBZ/800t	1 set	Belgium
6	Vacuum Purifier	KCVO 6000L/H	1 set	Japan
7	Vacuum Purifier	KLVC 20000L/H	2 sets	Japan
8	Vacuum Purifier	EDK-6000L/H	1 set	German
9	Hydraulic Press	3500t	1 set	China
10	Large Winding Machine	J262	1 set	China
11	Vertical Winding Machine	J263	1 set	China
12	Vertical Winding machine	MW271	1 set	Switzerland
13	Winding Trimmer	125A 300t	1 set	China
14	Insulation Component Processing Center	RANE 535PW	1 set	Germany
15	Portal Jib Crane	250t	1 set	China
16	Overhead Crane	400t	1 set	China
17	Steelplate Pretreatment Line	/	1 set	China
18	Numerical Control Cutting machine	CG2-150	3set	China
19	CO ₂ Welding Machine	500A	56 sets	Japan
20	Edge Planer	B8109A	1 set	China
21	CAD Computer Network	/	122 sets	/
22	5080 Graphic Work Stations	/	145 sets	/
23	Roland Rotter Dramplotter	HT004	1 set	USA
24	Intermediate Transformer	160000KVA	1 set	China
25	Generating Unit	30000kW, 15000kW,4000kW	3 sets	China

TESTING CAPABILITY AND FACILITIES

The 500kV shell type transformers and shell type shunt reactors are tested by Tianwei Baobian in the UHV testing station. The UHV testing station has tested 500MVA/750kV and 40MVA/1000kV power transformer. No problem in the testing capacity. In order to meet the demand for testing the 500kV reactors, we equipped the 160MVA/1050 testing transformer, 200/80MVar HV/LV compensating capacity group, 2877 electrical bridge made in Swiss and high accurate current transformer, vibration measuring instruments and other advanced equipment.

The inner size of the testing station is L60xW40xH40 (m), it is shield by copper net. The size of the door to 500kV workshop is 12x21(m), the transformer are taken to the station by air cushion vehicles, the main equipment are as follows:

4800kV impulse generator: Rated Voltage:4800kV

Impulse Energy:480kJ

Multi-ball shut off device: Rated Voltage:4000kV

ZRF Impulse Voltage sharing capacitor Thunder Impulse:4000kV Switch Impulse:2400kV

Power Generating Unit Capacity: 15000kVA / 50Hz

15000kVA / 60Hz

7500kVA /200Hz

HV Compensating Capacity Group 200MVar (Unit 334kVar/21kV, 600 Units)

LV Compensating Capacity Group 80MVar (Unit 334kVar/10.5kV, 240 Units)

No.	Name	Spec.	Origin
1.	Error Detector	2711/23 type	Switzerland
2.	Peak Voltmeter	SDM76 Type	Germany
3	Peak Voltmeter	64M	Switzerland
4	Dielectric Loss Measuring Bridge	2801 type, 2805 type	Switzerland
5	Partial Discharge Measuring Unit	Moder-5 type	UK
6	Partial Discharge Measuring Unit	9124 type	Switzerland
7	Open Circuit Voltage Measuring Unit	HKY-1	China
8	HV Impulse Oscilagram	721 type	Switzerland

TESTING CAPABILITY AND FACILITIES

9	Micro Ohmmeter	2281 type	Switzerland
10	Power Analyzer	5155 type	Austria
11	Harmonic Analyzer	NOWA-1type	Germany
12	Standard Voltage Transformer	0.03 class 200kv/4 x100v	Switzerland
13	Standard Current Transformer	0.01 class HL46-A	china
14	16-Channel Oscillogram	SC16A	China
15	Test Transformer	YDJC-750/1500kV	China
16	Impulse Generator	4200kV, 1800kV	China
17	Voltage Divider	ZRF-2400kv/300kV	China
18	Sound Measuring Unit	2203 type	Denmark
19	Partial Discharge Locator	AEPD-4 AEPD-6	China
20	Oil Puncture Tester	DTA-100	Austria
21	Impulse analyzer	742 type	Switzerland
22	Voltmeter	2.5-5A 30-300v	Germany
23	Capacitance Dielectric Loss Measuring Equipment	2805 type	Germany
24	Transformer Turns Ratiometer	2791Type	Switzerland
25	Aquacounter	AQ-6 type	Switzerland
26	Oil tester	DTA-100	Austria
27	Bridge	2821 type	Switzerland
28	Chromatography	PU4410	Switzerland
29	Micro Liquid Particle Spectrometer	ULPS-16	USA
30	Single Sheet Tester	MTP-100	China
31	HV Automatic Test Equipment	HT	China
32	Analyzing Balance	A200S	Germany
33	Winding Deformation Measuring Unit	TDT type	China

CASE



Karachi, Pakistan SFSZC-20MVA/232kv power transformer 



 Albania 220kv/50mva power transformer

Argentina 132kv/60mva power transformer 



CASE

Hengfengyou Electric has always been committed to providing the best quality Power Transformer products for global customers



Case show
make life better



Albania-115kV-31.5MVA



132/33kV Bangladesh Substation

CERTIFICATE

QUALIFICATION CERTIFICATION



OUR PARTNER



PRE-SALE SERVICE:

1. ISO certified excellent Manufacturer
2. Third-party authoritative certifications: CE, CB etc
3. Flexible payment: T/T, LC, O/A
4. Sufficient inventory, fast delivery time and long validity of the price
5. The whole process of picture tracking can be realized in production and transportation
6. Experienced professional sales team and a strong technical team
7. Sincerely invite customers to visit the company for guidance

AFTER-SALES SERVICE:

1. If there is any quality problem after receiving the goods, you can return the goods free of charge or ship new products
2. We provide our customers with a 1-year product warranty
3. Provide 24-hour, 365-day technical guidance worldwide
4. The VIP customers enjoy our promotional activity
trained by management consultants, is able to provide professional solutions for customers.
5. Our customer service team ensures on time delivery.



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青岛恒丰友电气工程有限公司

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