



广高牌

SINCE 1958

广高电器源于1958年，专业致力于电能的安全传输，
从工业生产到日常生活，服务千家万户。

Guanggao appliance since 1958, specialized in the secure transmission of electrical
energy from industrial production to daily life, service to millions of households.

广州广高高压电器有限公司

Guangzhou Guanggao High Voltage Electric Apparatus Co., Ltd.

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本目录采用环保循环纸

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公司理念 Company Philosophy

经营理念：诚实、守信、用户至上

Business Philosophy: honesty, trustworthiness, customers supreme.

企业方针：不断创新，生产优质产品；信守合同，提供满意服务

Business Policy: constant innovation, manufacturing quality products, abided by the contract and provide satisfactory service.

企业精神：以人为本、以客为先、不断超越、不断进取
Spirit of Enterprise: people foremost, customer-oriented, transcend constantly, continuous improvement.

发展战略：抓住机遇，持续发展；创新品质，做强做大
Development Strategy: seize opportunities, constant development, create quality products, expanding and strengthening.

总经理：
General Manager:




Business:

- OEM & ODM Worldwide
- Order & Tender
- Technology Transfer

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企业简介 Company Profile

广州广高高压电器有限公司是国企改革后新的股份制企业，被国家经贸委推荐为第一批城乡电网建设与改造产品推广企业，专业生产电力变压器、高低压开关成套设备、低压产品、环保型电线电缆和电工产品，是国家惠民工程高效节能变压器推广企业。公司创建于1958年，占地面积51000平方米，总投资5亿元，历史悠久，资产雄厚，被政府认定为广东老字号。

公司建设了现代化实验室，有高压试验大厅，内设3000kV雷电冲击发生器，拥有引进的日本三菱公司CA-21微量水分测量仪，美国福禄克公司的Ti30红外线热像探测仪，美国RM-3WE三维振动记录仪等先进的测试设备。2011年被认定为国家电力变压器能效检测实验室。

公司先后承担了国家奥运会保电工程、国家851工程、广州亚运会全建设工程、广州BRT等重要保电工程项目，产品在全国各地安全可靠运行，并出口缅甸、马达加斯加、马来西亚、安哥拉等国家。公司品牌“广高牌”在机电市场上有着良好的信誉，被认定为广东省著名商标，产品被认定为国家能效之星产品和广东省名牌产品。

公司多次承担省、市、区科技项目，获得多项科学技术奖励，被广东省工商行政管理局认定为连续12年守合同重信用企业，同时被评为广东省制造业百强企业，高新技术企业，广东省创新型试点企业，广东省民营科技企业，广东省用户满意企业。公司研发团队强大、研发设备完善，研发技术先进，2013年获广东省科学技术厅审批组建了省级研发中心广东省变压器（广高）工程技术研究中心，同年经广东省经济和信息化委员会等六部审批组建了广东省省级企业技术中心。

Guangzhou Guanggao High Voltage Electric Apparatus Co., Ltd. was recommended as the first batch of urban and rural power grid construction and transformation of product promotion enterprise, specializing in the production of power transformers, switchgear, wire and cable and other electrical products. It is the national projects that benefit the promotion of energy efficient transformer business. Founded in 1958, the company covers an area of 51,000 square meters and is recognized as Guangzhou time-honored brand with its long history and a total investment of 500 million yuan.

The company has modern laboratory construction, such as high-voltage test hall, within which there is a 3000kV lightning impulse testing device, and some advanced testing equipment, such as CA-21 moisture analyzer from Mitsubishi, American Fluke Ti30 infrared image detector, American RM-3WE three dimensional vibration. And it was identified as the national power transformer energy efficiency testing laboratories in 2011.

The company has undertaken the National Olympic Security Power Project, the National 851 project, the whole construction of the Guangzhou Asian Games, Guangzhou BRT and other important security power projects. The products used in the above projects are highly safe and in a reliable operation throughout the country. Also, these products are exported to Myanmar, Madagascar, Malaysia, Angola and other countries. Enjoying a good reputation on the electromechanical market, "Guanggao Brand" was identified as Guangdong famous brand, the product was identified as the National Energy Efficiency Star Products and Brand-Name Products in Guangdong Province.

Our company has undertaken the provincial, municipal and district projects many times, obtaining a number of science and technology awards and other awards, such as 12 consecutive years Credible Enterprise by Guangdong Province Administration for Industry and Commerce, Guangdong Province Top 100 Enterprises in manufacturing, High-Tech Enterprises, Guangdong Province Innovative Pilot Enterprise, Private Technology Enterprises in Guangdong Province, Guangdong Province Enterprise Customer Satisfaction. Moreover, with strong R & D team and advanced technology, the company was honored as Guangdong Province Transformer (Guanggao) Engineering Research Center and Guangdong Province Provincial Enterprise Technology Center.



营业执照、ISO证书 Business License, ISO Certificates



Business License



Organization Code



ISO 14001:2004



ISO 9001:2008

CESI, KEMA, 型式试验报告 CESI, KEMA, Type Test Reports



Italy CESI Report
220KV/180MVA



KEMA Report
110kV 63MVA



Type Test Report
35kV 8000KVA



Type Test Report (oil type)
20kV: 1000KVA
(Silicon Core)



Type Test Report (oil type)
10kV: 100KVA, 500KVA, 630KVA
1600KVA (Silicon Core)



Type Test Report (oil type)
10kV: 315KVA, 200kV, 630kVA
(Amorphous Core)



Type Test Report (dry type)
20kV: 1250kVA (Silicon)



Type Test Report (dry type)
10kV: 800kVA, 1000kVA (Silicon)
10kV: 630kVA (Amorphous)
10kV: 2500KVA (Silicon core)



Single-Phase Pole-Mounted
10kV/230V: 80kVA
(Silicon Steel Core)

220kV\132kV\110kV\66kV级系列油浸式电力变压器 Class Series Oil-Immersed Power Transformer

220kV\132kV\110kV\66kV 系列电力变压器是在消化国内外先进技术的基础上自行研发设计并逐步完善的新系列产品。具有现场免吊芯、高可靠性、高阻抗、抗短路强、低损耗、低噪音、低局放等性能特点。目前能够生产结构合理、性能稳定的13型系列新产品。目前220KV最大容量为900000kVA, 110KV最大容量为 300000KVA。广泛地应用在电厂、电站、工矿企业、用户配电站等电力和配电系统；适用于成网、农网、户内、户外等各种不同的安装环境要求。

220kV\132kV\110kV\66kV class series of power transformer are the latest generation products, which have been developed based on the strongpoint of international similar products. The characteristics: free of core lifting inspection, high reliability, high impedance, strong ability to short-circuit resistance, low loss, low noise, low temperature rise, low partial discharge, and environmental protection. We can produce the new products of 13\11\10 series, the structure of which are rationalization and the performance are stable, the maximum capacity is 900000kVA for 220KV and 300000KVA for 110KV at present. They can be widely used in the following power system and power distribution system: power stations, substations, industrial and mining enterprises, customer power distribution substations, and they can adapt to different installation environments, like urban power grid, rural power network, indoor, outdoor and so on.



技术参数表 (Technical Data sheet)

220KV双绕组无励磁调压变压器技术参数 Technical Data for 220kV Two-Winding Power Transformer with Off-Circuit Tap Changer

型号 Type	额定容量 Rated Capacity (kVA)	额定电压 Rated Voltage		联结组 标号 Vector Group	损耗 Loss(kw)		空载电流 No-load Current (%)	短路阻抗 Short-Circuit-Impedance (%)	重量 Weight			外形尺寸 Overall Dimension			轨距 Track Gauge (mm)
		高压 H.V. (kV)	低压 L.V. (kV)		空载 No load	负载 Load			器身重 Body	油重 Oil (kg)	总重 Total (kg)	长 L (mm)	宽 W (mm)	高 H (mm)	
SFP10-50000	50000	132 138 220 ±2x2.5%	10.5	YNd11 Dyn11	36.4	178.5	0.28	12-14	43.6	23.9	82.5	7800	4710	6740	2000x2000
SFP10-63000	63000		11		43.4	208.0	0.27		51.5	25.0	96.0	7810	4720	6780	2000x2000
SFP10-90000	90000		11		57.4	272.0	0.25		67.3	26.2	125.1	7820	4750	6830	1435/2x2000
SFP10-120000	120000		11		70.0	327.0	0.23		89.5	27.5	150.5	8030	4790	7690	1435/2x2000
SFP10-150000	150000		11: 13.8		84.0	382.0	0.20		96.0	28.6	160.3	9370	4840	7710	1435/2x2000
SFP10-180000	180000		11		95.9	433.0	0.20		109.2	29.2	172.3	10700	5010	7790	1435/2x2000
SFP10-240000	240000	13.8	11		119.0	535.0	0.15		122.7	32.3	184.5	12010	5160	7850	1435/2x2000
SFP10-300000	300000		11		140.0	637.0	0.15		134.5	34.5	196.7	13100	5320	7910	1435/2x2000
SFP10-360000	360000		15.75		161.0	731.0	0.15		147.8	37.3	209.5	13980	5570	7990	1435/2x2000

220KV三绕组无励磁调压电力变压器技术参数
Technical Data for 220kV Three-Winding Power Transformer with Off-Circuit Tap Changer

型号 Type	额定容量 Rated Capacity (kVA)	额定电压 Rated Voltage(kV)			联结组 标号 Vector Group	损耗 Loss(kW)		空载电 流 No-load Current (%)	短路阻抗 Short-Circuit Impedance (%)		重量 Weight			外形尺寸 Overall Dimension			轨距 Track Gauge (mm)
		高压 H.V.	中压 M.V.	低压 L.V.		空载 No load	负载 Load		升压 Step-up	降压 Step-down	器身重 Body	油重 Oil (kg)	总重 Total (kg)	长 L (mm)	宽 W (mm)	高 H (mm)	
SFPS10-50000	50000	132±2.5% 138±2.5% 220±2.5%	69 121	10 11 13.8 35 38.5 1	YNyn0 d11	42.0	212.0	0.26	高-中	高-中	50.5	21.9	86.4	5650	5010	5200	2000×2000
SFPS10-63000	63000					49.7	246.0	0.24	H.V.-M.V.	H.V.-M.V.	58.8	22.9	97.0	6420	5120	5610	2000×2000
SFPS10-90000	90000					64.4	331.0	0.22	22-24 高-低	12-14 高-低	78.3	27.2	129.1	8410	5570	6690	1435/2×2000
SFPS10-120000	120000					79.1	408.0	0.20	H.V.-L.V.	H.V.-L.V.	101.2	31.3	165.4	10650	5830	7440	1435/2×2000
SFPS10-150000	150000					93.1	484.0	0.18	12-14 中-低	22-24 中-低	120.3	37.7	196.6	11200	5950	7540	1435/2×2000
SFPS10-180000	180000					106.4	552.0	0.15	M.V.-L.V.	M.V.-L.V.	138.9	42.2	226.9	11690	6150	7570	1435/2×2000
SFPS10-240000	240000					130.9	680.0	0.15	7-9	7-9	157.1	47.0	257.5	12190	6360	7520	1435/2×2000

220KV双绕组有载调压电力变压器技术参数
Technical Data for 220kV Two-Winding Power Transformer with On-Load Tap Changer

额定容量 Rated Capacity (kVA)	额定电压 Rated Voltage (kV)		联结组 标号 Vector Group	损耗 Loss(kW)		空载电流 No-load Current(%)	短路阻抗 Short-Circuit- Impedance (%)	重量(kg) Weight			外形尺寸(mm) Overall Dimension			轨距 Track Gauge (mm)
	高压 H.V.	低压 L.V.		空载 No load	负载 Load			器身重 Body	油重 Oil	总重 Total	长 L	宽 W	高 H	
50000	132 138 220 ±13 ×1.25%	35 38.5	YNd11	39.9	178.5	0.26	12-14	50.4	25.2	85.3	8090	4680	6840	2000×2000
63000				47.6	208.0	0.24		55.7	26.2	98.6	8150	4710	6860	2000×2000
90000				61.6	272.0	0.22		69.3	29.2	127.7	8280	4790	6910	1435/2×2000
120000				74.9	327.0	0.20		92.4	30.7	156.8	8615	4910	7650	1435/2×2000
150000				86.6	282.0	0.18		98.5	32.3	165.0	9940	4930	7720	1435/2×2000
180000				100.8	442.0	0.15		112.4	33.9	174.1	11280	5020	7810	1435/2×2000

220kv三绕组有载调压电力变压器技术参数
Technical Data for 220kV Three-Winding Power Transformer with On-Load Tap Changer

额定容量 Rated Capacity (kVA)	额定电压 Rated Voltage			联结组 标号 Vector Group	损耗 Loss(kW)		空载电流 No-load Current (%)	短路阻抗 Short-Circuit Impedance (%)		重量(kg) Weight			外形尺寸(mm) Overall Dimension			轨距 Track Gauge (mm)
	高压 H.V. (kV)	中压 M.V. (kV)	低压 L.V. (kV)		空载 No load	负载 Load		升压 Step-up	降压 Step-down	器身重 Body	油重 Oil	总重 Total	长 L	宽 W	高 H	
50000	132 138 220 ±13× 1.25%	69 121	11 35 38.5	YNyn0 d11	46.2	212.0	0.26	高-中	高-中	52.5	32.9	92.7	7860	5050	5620	2000×2000
63000					53.9	246.0	0.24	H.V.-M.V.	H.V.-M.V.	60.4	34.5	103.4	8780	5150	6020	2000×2000
90000					70.0	331.0	0.22	22-24 高-低	12-14 高-低	80.0	38.3	135.2	10620	5590	7070	1435/2×2000
120000					85.4	408.0	0.20	H.V.-L.V.	H.V.-L.V.	102.2	42.9	173.3	11080	5820	7420	1435/2×2000
150000					100.1	484.0	0.18	12-14 中-低	22-24 中-低	123.8	44.0	199.8	11730	5910	7550	1435/2×2000
180000					115.5	595.0	0.15	M.V.-L.V.	M.V.-L.V.	139.9	46.3	231.6	12380	6140	7600	1435/2×2000

110KVSSZ13、SFSZ13系列三相三绕组有载调压电力变压器技术参数
Technical Data for 110KVSSZ13、SFSZ13 Series Three-Phase Three-Winding Power Transformer with On-Load Tap Changer

容量 Capacity	电压组合及分接范围 Voltage Combination & Tapping Range (kV)			连接组 标号 Vector group	空载损耗 No load loss (kW)	负载损耗 Full load loss (kW)	短路阻抗 Short-Circuit Impedance (%)	总重 Total weight Kg	器身重 Weight of active part Kg	油重 Oil Weight Kg	外形尺寸 Dimension (L×W×H) mm
	高压 HV	中压 MV	低压 LV								
6300	132±8 ×1.25% 132±13 ×1.25% 110± 110±13 ×1.25%	35 37 38.5	6.3 6.6 10.5 11	YNyn0d 11	6.6	42.3	高-中 H.V.-M.V. 10.5 高-低 H.V.-L.V. 17.5~18.5 中-低 M.V.-L.V. 6.5	20500	9500	6000	4700×3500×5300
8000					7.9	50.4		25000	12050	7500	5200×3600×5300
10000					9.4	59.4		29500	14500	8000	5980×3660×5400
12500					11.1	70.2		35400	17200	9500	6300×3750×5500
16000					13.3	85.5		42500	20500	11500	6500×3780×5570
20000					15.7	100.8		48500	24500	12500	6750×3800×5790
25000					18.6	119.7		53400	24500	14500	7000×4600×6070
31500					22.1	141.3		60900	30000	16500	7000×4600×6070
40000					26.5	170.1		71600	36900	18500	7100×5150×5900
50000					31.3	202.5		82500	42700	20700	7200×5500×6000
63000					37.2	243		97200	51000	23000	7300×5600×6000

110KVSSZ13、SFSZ13系列三相双绕组有载调压电力变压器技术参数
Technical Data for 110KVSSZ13、SFSZ13 Series Three-Phase Two-Winding Power Transformer with On-Load Tap Changer

容量 Capacity	电压组合及分接范围 Voltage Combination & Tapping Range		连接组 标号 Vector group	空载损耗 No load loss (kW)	负载损耗 Full load loss (kW)	短路阻抗 Short-Circuit Impedance (%)	总重 Total weight Kg	器身重 Weight of active part Kg	油重 Oil Weight Kg	外形尺寸 Dimension (L×W×H) mm
	高压 HV (kV)	低压 LV (kV)								
6300	132±8×1.25% 132±13×1.25% 110+8×1.25% 110±13×1.25%	6.3 6.6 10.5 11	YNd11	5.5	32.4	10.5	20100	9200	6600	4850×3600×4500
8000				6.6	40.5		24100	10600	7910	4900×3850×5000
10000				7.8	47.7		28500	12600	8120	4950×4150×5300
12500				9.2	56.7		33100	14800	8380	5000×4260×5400
16000				11.1	69.3		35300	16500	9560	5430×4300×5370
20000				13.2	83.7		37800	17500	10100	5900×4500×5250
25000				15.6	99		43600	19800	11500	6050×4900×5300
31500				18.6	119.7		53500	27500	15000	6300×4700×5600
40000				22.2	140.4		59200	29800	14100	6380×4840×5750
50000				26.3	174.6		73200	37800	17300	6880×5200×5650
63000				31.2	210.6		81900	41000	20000	7100×5500×5800

110kV SS13、SFS13系列三相三绕组无励磁调压电力变压器技术参数
Technical Data for 110kV SS13、SFS13 Series Three-Phase Three-Winding Power Transformer with Off-Circuit Tap Changer

容量 Capacity	电压组合及分接范围 Voltage Combination & Tapping Range			连接组标号 Vector group	空载损耗 No load loss	负载损耗 Full load loss	短路阻抗 Short-Circuit Impedance %		总重 Total weight	器身重 Weight of active part	油重 Oil Weight	外形尺寸 Dimension (L×W×H)
	高压 HV (kV)	中压 MV (kV)	低压 LV (kV)		(kW)	(kW)	升压 Step-up	降压 Step-down	Kg	Kg	mm	mm
6300	110±2X2.5% 121±2X2.5%	35 37 38.5	6.3 6.6 10.5 11	YNyn0d11	6.2	42.3	高-中 H.V.-M.V. 17.5~18.5 高-低 H.V.-L.V. 10.5 17.5~18.5 中-低 M.V.-L.V. 6.5	高-中 H.V.-M.V. 10.5 高-低 H.V.-L.V. 17.5~18.5 中-低 M.V.-L.V. 6.5	19100	9700	5700	4500×3200×4900
8000					7.3	50.4			22900	11600	6800	4700×3300×4950
10000					8.7	59.4			26300	13700	8000	4850×3350×4990
12500					10.1	70.2			29500	14300	9500	4880×3390×4980
16000					12.3	85.5			34900	16700	11600	4900×3800×5000
20000					14.5	100.8			40800	20500	13500	5100×3900×5050
25000					16.9	119.7			48600	23200	17500	5400×4300×5140
31500					20.2	141.3			56200	27500	20100	5650×4350×5080
40000					24	170.1			65500	34500	23800	5800×4400×5110
50000					28.6	202.5			75900	40200	27000	6050×4500×5180
63000					33.9	243			86200	46700	32500	6400×4650×5200

110KVSSZ11、SFSZ11系列三相三绕组有载调压电力变压器技术参数
Technical Data for 110KVSSZ11、SFSZ11 Series Three-Phase Three-Winding Power Transformer with On-Load Tap Changer

容量 Capacity	电压组合及分接范围 Voltage Combination & Tapping Range			连接组标号 Vector group	空载损耗 No load loss	负载损耗 Full load loss	短路阻抗 Short-Circuit Impedance	总重 Total weight	器身重 Weight of active part	油重 Oil Weight	外形尺寸 Dimension (L×W×H)
	高压 HV (kV)	中压 MV (kV)	低压 LV (kV)		(kW)	(kW)	%	Kg	Kg	mm	mm
6300	132±8×1.25% 132±13×1.25% 110±8×1.25% 110±13×1.25%	35 37 38.5	6.3 6.6 10.5 11	YNyn0d11	9.6	44.7	高-中 H.V.-M.V. 10.5 高-低 H.V.-L.V. 17.5~18.5 中-低 M.V.-L.V. 6.5	20000	9500	5000	4650×3450×5300
8000					11.5	53.2		24300	12050	6500	5100×3500×5300
10000					13.7	62.7		28600	14500	7200	5780×3560×5400
12500					16.2	74.1		33500	17200	7900	6200×3750×5500
16000					19.4	90.3		41500	20500	10100	6300×3650×5570
20000					22.9	106.4		46600	24500	11500	6550×3600×5790
25000					27	126.4		51300	24500	13500	6800×4500×5800
31500					32.2	149.2		58900	30000	14500	6900×4600×5840
40000					38.6	179.6		70600	36900	17200	7050×5050×5900
50000					45.5	213.8		80500	42700	19300	7200×5350×6000
63000					54.2	256.5		95000	51000	22200	7250×5500×6000

110KVS13、SF13系列三相双绕组无励磁调压电力变压器技术参数
Technical Data for 110KVSSZ13、SFSZ13 Series Three-Phase Two-Winding Power Transformer with Off-Circuit Tap Changer

容量 Capacity	电压组合及分接范围 Voltage Combination & Tapping Range		连接组标号 Vector group	空载损耗 No load loss	负载损耗 Full load loss	短路阻抗 Short-Circuit Impedance	总重 Total weight	器身重 Weight of active part	油重 Oil Weight	外形尺寸 Dimension (L×W×H)
	高压 HV (kV)	低压 LV (kV)		(kW)	(kW)	%	Kg	Kg	Kg	mm
6300	110±2×2.5% 121±2×2.5% 132±2×2.5%	6.3 6.6 10.5 11	YNd11	5.1	32.4	10.5	18800	8900	5250	489×3880×5410
8000				6.2	40.5		20400	10800	5900	1980×3950×5400
10000				7.3	47.7		23400	11400	6200	5150×3900×5430
12500				8.6	56.7		26300	12800	6800	5230×3990×5510
16000				10.3	69.3		29900	16400	7300	5420×4060×5500
20000				12.1	83.7		35400	19700	9020	5500×4100×5620
25000				14.3	99		39800	25500	11340	5620×4280×5650
31500				16.9	119.7		46500	25800	14650	5700×4460×5680
40000				20.2	140.4		52800	31800	16230	5790×4500×5780
50000				24.2	174.6		57100	34400	17700	5700×4530×5810
63000				28.6	210.6		61400	38600	19920	5800×4650×5980

110KVSZ11、SFZ11系列三相双绕组有载调压电力变压器技术参数
Technical Data for 110KVSZ11、SFZ11 Series Three-Phase Two-Winding Power Transformer with On-Load Tap Changer

容量 Capacity	电压组合及分接范围 Voltage Combination & Tapping Range		连接组标号 Vector group	空载损耗 No load loss	负载损耗 Full load loss	短路阻抗 Short-Circuit Impedance	总重 Total weight	器身重 Weight of active part	油重 Oil Weight	外形尺寸 Dimension (L×W×H)
	高压 HV (kV)	低压 LV (kV)		(kW)	(kW)	%	Kg	Kg	Kg	mm
6300	132±8×1.25% 132±13×1.25% 110±8×1.25% 110±13×1.25%	6.3 6.6 10.5 11	YNd11	8	34.2	10.5	20000	9100	6500	4810×3800×4500
8000				9.6	42.8		23100	10000	7760	4830×3950×5100
10000				11.4	50.4		27500	11500	8000	4900×4190×5300
12500				13.4	59.9		32100	13700	8120	5020×4230×5400
16000				16.2	73.2		33500	16100	9360	5370×4320×5370
20000				19.2	88.4		35800	16600	10000	5900×4650×5250
25000				22.7	104.5		41300	17800	10100	6150×4700×5300
31500				27	126.4		52000	25500	13700	6100×4680×5600
40000				32.3	148.2		57600	27800	14200	6280×4840×5750
50000				38.2	184.3		71200	36500	16800	6680×5130×5650
63000				45.4	222.3		80500	39600	19000	7000×5400×5800

110KVSS11、SFS11系列三相三绕组无励磁调压电力变压器技术参数
Technical Data for 110KVSS11、SFS11 Series Three-Phase Three-Winding Power Transformer with Off-Circuit Tap Changer

容量 Capacity	电压组合及分接范围 Voltage Combination & Tapping Range			连接组 Vector group	空载损耗 No load loss	负载损耗 Full load loss	短路阻抗 Short-Circuit Impedance %		总重 Total weight	器身重 Weight of active part	油重 Oil Weight	外形尺寸 Dimension (L×W×H)
	高压 HV (kV)	中压 MV (kV)	低压 LV (kV)		(kW)	(kW)	升压 Step-up	降压 Step-down	Kg	Kg	mm	mm
6300	132±2.5% 110±2.5% 121±2.5%	35 37 38.5	6.3 6.6 10.5 11	YNyn0d11	9	44.7	高-中 H.V.-M.V. 17.5~18.5	高-中 H.V.-M.V. 10.5	18100	9600	5500	4400×3300×4800
8000					10.6	53.2			21500	10600	6700	4600×3390×4930
10000					12.6	62.7			25300	13200	7500	4750×3450×4980
12500					14.7	74.1			28500	14000	9000	4780×3590×4980
16000					17.9	90.3			33900	15700	11500	4800×3850×5050
20000					21.1	106.4			38800	19500	12500	5000×3910×5150
25000					24.6	126.4			46600	21200	16500	5300×4260×5190
31500					29.4	149.2			55500	26400	19800	5550×4450×5280
40000					34.9	179.6			63500	33500	21800	5600×4600×5290
50000					41.6	213.8			73500	40100	26400	5950×4700×5380
63000					49.3	256.5			83200	41300	30200	6350×4750×5420

110KVSS11、SFS11系列双相三绕组无励磁调压电力变压器技术参数
Technical Data for 110KVSS11、SFS11 Series Two-Phase Three-Winding Power Transformer with Off-Circuit Tap Changer

容量 Capacity	电压组合及分接范围 Voltage Combination & Tapping Range		连接组 Vector group	空载损耗 No load loss	负载损耗 Full load loss	短路阻抗 Short-Circuit Impedance	总重 Total weight	器身重 Weight of active part	油重 Oil Weight	外形尺寸 Dimension (L×W×H)
	高压 HV (kV)	低压 LV (kV)		(kW)	(kW)	%	Kg	Kg	Kg	mm
6300	132±2.5% 110±2.5% 121±2.5%	6.3 6.6 10.5 11	Ynd11	7.4	34.2	10.5	16800	8100	4250	4810×3850×5410
8000				9	42.8		19400	9800	5100	4900×3850×5400
10000				10.6	50.4		21400	10400	5200	5050×3800×5430
12500				12.5	59.9		24300	11500	5600	5100×3900×5510
16000				15	73.2		26900	14700	5900	5210×3960×5500
20000				17.6	88.4		33400	18700	8020	5320×4100×5620
25000				20.8	104.5		37800	22500	10410	5420×4210×5650
31500				24.6	126.4		45500	25500	12550	5540×4450×5750
40000				29.4	148.2		49800	29800	14140	5590×4500×5780
50000				35.2	184.3		54100	33400	15400	5700×4530×5810
63000				41.6	222.3		60400	38100	17920	5800×4650×5980

6~36kV 级系列油浸式电力变压器 Class Series Oil-Immersed Power transformer

我司生产的全密封配电变压器是在吸收国内外同类产品优点的基础上，结合目前配电实际而自主设计和开发的新一代产品。本系列变压器用于额定电压6~36kV，三相交流50Hz供电系统中。该系列产品采用波纹式油箱代替管式和片式散热器等结构的油箱，不但散热好、重量轻、用油少，而且能起到调整变压器内部压力的作用。产品的变压器器身、变压器与大气隔开，防止变压器油的老化、免维护。

可广泛应用于工业园、码头、油田、公路旁等场所，特别适用于水泥厂、建设施工工地、矿工等恶劣环境。

The full-sealed distribution power transformer is the latest generation product, which has been developed based on the strongpoint of international similar products, and the need of power distribution, it developed independently by ourselves. This series of substation are used in power supply system, when the rated voltage is 6~35kV, the three-phase AC is 50 Hz. Instead of pipe-type and panel-type radiator, the oil tank of this substation uses corrugated type radiator, it has characteristics of good heat dispersing of transformer. The active part of transformer, transformer oil should be insulated with air, in order to prevent the oil from ageing, so it requires little maintenance.

It can be widely used in industry zones, boatyards, oil field, public roads, especially for cement plants, construction site, mines and such severe environment.



36kV级有载电力变压器
36kV Class On-Load Power Transformer



36kV级电力变压器
36kV Class Power Transformer

S11系列36kV级双绕组电力变压器技术参数 Technical Data for S11 Series 36kV Two-Winding Power Transformer

额定容量 Rating (KVA)	电压组合(kV) Voltage Combination			联结组 Vector Group	空载电流 No-Load current	空载损耗 No-Load Loss	负载损耗 Full-Load Loss	短路阻抗 Short-Circuit impedance	重量 Weight (kg)		外形尺寸(mm) Dimension	安装尺寸 installation size (mm)
	高压 HV	高压分接范围 HV Tapping Range	低压 LV						总重 Total	油重 Oil	长×宽×高 (L×W×H)	
50	30 33 35 36	±2×2.5%	0.4	Yyn0	2.00	0.16	1.14	6.5	895	340	1140×885×1785	660
100					1.80	0.23	1.93		860	310	1135×840×1775	
125					1.70	0.27	2.23		1260	450	1225×1030×1940	
160					1.60	0.29	2.68		1427	489	1220×1140×2055	
200					1.50	0.35	3.16		1570	515	1240×1140×2090	
250					1.40	0.4	3.76		1480	435	1220×1120×1990	
315					1.40	0.49	4.53		2060	630	1480×1160×2230	
400					1.30	0.58	5.47		2305	705	1850×1220×2300	
500					1.20	0.68	6.58		2695	780	2170×1370×2410	
630					1.10	0.83	7.86		2730	740	2260×1150×2355	820
800	30 33 35 36	±3×2.5%	6.3	Yd11	1.00	0.98	9.4	7.0	3000	740	2275×1280×2410	
1000					1.00	1.15	11.54		4600	1237	2000×1620×2645	
1250					0.90	1.41	13.93		3830	950	2330×1470×2503	
1600					0.80	1.7	16.67		5300	1240	2450×1500×2550	
2000					0.70	2.17	18.39		6150	1195	2635×2050×2735	
2500					0.60	2.56	19.66		1155	1285	2640×2300×2780	1070
3150					0.56	3.04	23.08		8860	1355	2650×2520×2830	
4000					0.56	3.62	27.36		10220	1490	3150×2580×3290	
5000					0.48	4.32	31.38		11400	1409	3250×2610×3375	
6300					0.48	5.25	35.05	7.5	13565	1685	3520×2820×3470	
8000				Ynd11	0.42	7.2	34.48		15900	3200	3950×2390×3200	1475



H61 配电变压器
H61 Distribution Transformer



H59 插拔式套管变压器
H59 Plug in Type Transformer

S11系列36kV级双绕组有载调压电力变压器技术参数
Technical Data for S11 Series 36kV Two-Winding Power Transformer with On-Load Tap Changer

额定容量 Rating (KVA)	电压组合 Voltage Combination			联结组标号 Vector Group	空载电流 No-Load current	空载损耗 No-Load Loss	负载损耗 Full-Load Loss	短路阻抗 Short-Circuit impedance	重量 Weight (kg)		外形尺寸 Dimension	安装尺寸 Installation size (mm)
	高压 HV (kV)	高压分接范围 HV Tapping Range	低压 LV (kV)					%	总重 Total	油重 Oil	长 x 宽 x 高 (LxWxH) (mm)	
2000	30 33 35 36	$\pm 3 \times 2.5\%$	6.3 10.5	Yd11	0.80	2.3	19.23	6.5	6150	1195	2635x2050x2735	1070
2500					0.80	2.72	20.64	6.5	1155	1285	2640x2300x2780	
3150					0.72	3.23	24.71	7.0	8860	1355	2650x2520x2830	
4000					0.72	3.87	29.15	7.0	10220	1490	3150x2580x3290	
5000					0.68	4.64	34.2	7.0	11400	1409	3250x2610x3375	
6300					0.68	5.63	36.76	7.5	13565	1685	3520x2820x3470	1475
8000				YNd11	0.60	7.87	40.61	7.5	15900	3200	3950x2390x3200	

S11-(M) 系列20kV级全密封电力变压器技术参数
Technical Data for S11-(M) Series 20kV Full-Sealed Power Transformer



20kV 变压器
20kV Class Power Transformer



20kV 级电力变压器
20kV Class Power Transformer

额定容量 Rating (KVA)	电压组合 Voltage Combination			联结组标号 Vector Group	空载电流 No-Load current	空载损耗 No-Load Loss	负载损耗 Full-Load Loss	短路阻抗 Short-Circuit impedance	重量 Weight (kg)		外形尺寸 Dimension	安装尺寸 Installation size (mm)
	高压 HV (kV)	高压分接范围 HV Tapping Range	低压 LV (kV)		%	W	W	%	总重 Total Weight	油重 Oil Weight	长 x 宽 x 高 (LxWxH) (mm)	
30	20	$\pm 5\%$ $\pm 2\% \times 2.5\%$	0.4 0.415 0.433	Dyn11	2.1	90	660	5.5	395	170	1050x750x1140	400x400
50					2.0	130	960		485	180	1145x780x1160	400x400
63					1.9	150	1145		560	190	1170x790x1190	400x400
80					1.8	180	1370		660	210	1225x820x1260	550x550
100					1.6	200	1650		740	220	1250x850x1340	550x550
125					1.5	240	1980		850	230	1280x920x1380	550x550
160					1.4	290	2420		950	250	1310x970x1400	550x550
200					1.3	330	2860		1090	280	1850x1220x2300	660x660
250					1.2	400	3350		1240	350	1360x985x1440	660x660
315					1.1	480	4010		1380	380	1400x1000x1520	660x660
400					1.0	570	4730	6.0	1650	420	1515x1030x1590	660x660
500					1.0	680	5660		1900	480	160x1130x1630	660x660
630					0.9	810	6820		2340	560	1705x1290x1700	820x820
800					0.8	980	8250		2800	650	1875x1320x1760	820x820
1000					0.7	1150	11330		3150	780	1960x1400x1830	820x820
1250					0.7	1350	13200		4590	850	2020x1560x1920	1070x1070
1600					0.6	1630	15950		4450	965	2140x1620x2050	1070x1070
2000					0.6	1950	19140		5300	1125	2230x1680x2230	1070x1070
2500					0.5	2340	22220		6550	1380	2340x1720x2480	1070x1070



10kV 级全密封电力变压器
10kV Class Full-Sealed Power Transformer



10kV 级电力变压器
10kV Class Power Transformer

S11-(M) 系列10kV级全密封电力变压器技术参数
Technical Data for S11-(M) Series 10kV Full-Sealed Power Transformer

额定容量 Rating (KVA)	电压组合 Voltage Combination			联结 组标 号 Vector Group	空载 电流 No-Load current %	空载 损耗 No-Load Loss kW	负载损耗 Full-Load Loss kW	短路阻抗 Short- Circuit Impedance %	重量 Weight (kg)		外形尺寸 Dimension 长 x 宽 x 高 (LxWxH) (mm)	安装尺寸 installati on size (mm)
	高压 HV (kV)	高压分接范 围 HV Tapping Range	低压 LV (kV)						总重 Total Weight	油重 Oil Weight		
30	6 6.3 10 11	±5% ±2%×2.5%	0.4 0.415 0.433	Dyn11 Yyn0	2.1	0.10	0.60/0.630	4.0	290	60	730×380×885	400
50					2.0	0.13	0.870/0.910		340	65	740×470×940	
63					1.9	0.15	1.040/1.090		400	70	740×520×960	
80					1.8	0.18	1.250/1.310		450	75	740×630×990	
100					1.6	0.20	1.500/1.580		55	90	765×640×1030	
125					1.5	0.24	1.800/1.890		615	105	960×610×1055	
160					1.4	0.28	2.200/2.310		685	115	1010×650×1120	
200					1.3	0.34	2.600/2.730		830	135	1070×680×1175	
250					1.2	0.40	3.050/3.200		930	145	1150×760×1220	
315					1.1	0.48	3.650/3.830		1110	165	1210×800×1220	
400					1.0	0.57	4.300/4.520		1325	190	1265×830×1310	660
500					1.0	0.68	5.150/5.410		1580	210	1390×900×1390	
630					0.9	0.81	6.20	4.5	1830	250	1440×940×1440	
800					0.8	0.98	7.50		2330	365	1540×1040×1540	
1000					0.7	1.15	10.30		2625	420	1720×1190×1625	
1250					0.6	1.36	12.00		3150	490	1775×1230×1720	
1600					0.6	1.64	14.50		3720	555	1850×1260×1780	
2000					0.6	1.94	18.300		4660	850	2200×2100×2150	
2500					0.5	2.29	21.200		5500	990	2340×2220×2210	
3150					0.5	2.73	27	5.0	7010	1260	2400×2300×2330	1070
4000					0.5	3.26	32		8660	1550	2530×2240×2600	

S13-(M) 系列10kV级全密封电力变压器技术参数
Technical Data for S13-(M) Series 10kV Full-Sealed Power Transformer

额定容量 Rating (KVA)	电压组合 Voltage Combination			联结 组标 号 Vector Group	空载电 流 No-Load current %	空载损 耗 No-Load Loss kW	负载损耗 Full-Load Loss kW	短路阻抗 Short- Circuit Impedance %	重量 Weight (kg)		外形尺寸 Dimension 长 x 宽 x 高 (LxWxH) (mm)	安装尺寸 installati on size (mm)
	高压 HV (kV)	高压分接范 围 HV Tapping Range	低压 LV (kV)						总重 Total Weight	油重 Oil Weight		
30	6 6.3 10 11	±5% ±2%×2.5%	0.4 0.415 0.433	Dyn11 Yyn0	1.4	0.08	0.6/0.630	4.0	350	90	750×350×930	400×400
50					1.2	0.1	0.870/0.910		420	100	845×380×960	
63					1.1	0.11	1.040/1.090		480	110	870×390×990	
80					1	0.13	1.250/1.310		565	120	900×400×1050	
100					0.9	0.15	1.500/1.580		670	130	920×420×1060	
125					0.8	0.17	1.800/1.890		750	140	940×550×1140	
160					0.8	0.2	2.200/2.310		845	150	980×560×1160	
200					0.7	0.24	2.600/2.730		1015	210	990×570×1170	
250					0.7	0.29	3.050/3.200		1250	240	1000×585×1180	
315					0.6	0.34	3.650/3.830		1400	260	1100×600×1230	660×660
400					0.5	0.41	4.300/4.520		1650	310	1315×610×1350	
500					0.5	0.48	5.150/5.410		2000	35	1560×630×1390	
630					0.4	0.57	6.2	4.5	2500	480	1600×790×1430	
800					0.4	0.7	7.5		3000	550	1670×800×1500	
1000					0.4	0.83	10.3		3230	625	1760×960×1600	
1250					0.3	0.97	12		3740	720	1860×990×1650	
1600					0.3	1.17	14.5		4645	900	2000×1000×1730	
2000					0.3	1.550	18.300	5.0	5300	1150	2050×1800×2100	1070X1070
2500					0.25	1.830	21.200		6000	1350	2160X2000X2160	

注：表中斜线上方的负载损耗值适用于Dyn11，斜线下方的负载损耗值适用于Yyn0联结组。
Note: The load loss values slash the top of the table apply to Dyn11, while the load loss values slash below apply to vector group Yyn0.

S(B)H15-(M) 系列10kV级非晶合金铁芯全密封电力变压器技术参数
Technical Data for S(B)H15-(M) Series 10kV Full-Sealed Power Transformer (Amorphous Metal Core)

额定容量 Rating (KVA)	电压组合 Voltage Combination			联结 组标 号 Vector Group	空载电 流 No-Load current %	空载损 耗 No-Load Loss W	负载损耗 Full-Load Loss W	短路阻抗 Short- Circuit Impedance %	重量 Weight (kg)		外形尺寸 Dimension 长 x 宽 x 高 (LxWxH) (mm)	安装尺寸 installati on size (mm)
	高压 HV (kV)	高压分接范 围 HV Tapping Range	低压 LV (kV)						总重 Total Weight	油重 Oil Weight		
30	6 6.3 10 11 20	±5% ±2%×2.5%	0.4 0.415 0.433	Dyn11	1.7	33	600	4.0	400	110	1000×780×810	550×550
50					1.3	43	870		555	130	1030×850×850	
63					1.2	50	1040		610	135	1050×900×855	
80					1.1	60	1250		675	145	1060×900×865	
100					1.0	75	1500		770	165	1110×910×920	
125					0.9	85	1800		880	180	1170×910×950	
160					0.7	100	2200		990	195	1220×910×985	
200					0.7	120	2600		1150	230	1290×920×1025	660×660
250					0.7	140	300		1310	250	1360×920×1060	
315					0.5	170	3650		115	270	1380×960×1165	
400					0.5	200	4300		1870	340	151×1000×1240	
500					0.5	240	5150	4.5	2185	395	1640×1000×1295	660×660
630					0.3	320	6200		2720	575	1740×1120×1300	
800					0.3	380	7500		3200	680	2070×1230×1345	
1000					0.3	450	10300		3640	765	2260×135×1385	
1250					0.2	530	12000		4215	840	2360×1350×1455	1070×1070
1600					0.2	630	14500		5000	965	2530×1525×1525	

注：630kVA~1600kVA低压线圈箔绕
Note: 630kVA ~ 1600kVA low-voltage coil winding

S11-(M) 系列10kV级全密封有载调压电力变压器技术参数
Technical Data for S11-(M) Series 10kV Full-Sealed Power Transformer with On-Load Tap changer

额定容量 Rating (KVA)	电压组合 Voltage Combination			联结组标号 Vector Group	空载电流 No-Load current %	空载损耗 No-Load Loss kW	负载损耗 Full-Load Loss kW	短路阻抗 Short-Circuit Impedance %	重量 Weight (kg)		外形尺寸 Dimension 长 x 宽 x 高 (L×W×H) (mm)	安装尺寸 installation size (mm)
	高压 HV (kV)	高压分接范围 HV Tapping Range	低压 LV (kV)						总重 Total Weight	油重 Oil Weight		
100	6 6.3 10 11	±4%×2.5%	0.4 0.415 0.433	Dyn11 Yyn0	1.9	0.20	1.50	4.0	850	190	1200×750×1000	550
125					1.8	0.24	1.80		910	200	1350×800×1100	
160					1.7	0.29	2.20		980	250	1550×850×1290	
200					1.6	0.33	3.06		1145	265	1790×980×1490	660
250					1.5	0.40	3.6		1345	305	1820×1000×1540	
315					1.4	0.48	4.32		1530	330	1870×1010×1585	
400					1.4	0.57	5.22		1745	370	1910×1230×1630	
500					1.3	0.68	6.21		1990	410	1980×1250×1670	
630					1.2	0.81	7.65	4.5	2230	485	1780×1124×1820	820
800					1.1	0.98	9.36		3365	780	2610×1550×2320	
1000					1.0	1.15	10.98		3260	740	2430×1440×1927	
1250					0.9	1.36	13.05		3730	820	2440×1415×2020	
1600					0.8	1.64	15.57		5.5	4530	950	
2000					0.8	1.94	19.80	5425		1115	2690×1800×2310	1070
2500					0.7	2.29	23	6~7	6980	1730	2830×1700×2630	
3150					0.7	2.73	27		7670	1900	2950×1800×2800	
4000					0.6	3.26	32		8440	2000	3050×1950×2950	

单相柱上式配电变压器 Single-Phase Pol-Mounted Transformer



10kV~13.8kV D11型单相柱上式配电变压器 (硅钢片铁芯)
Technical Data for D11 Series 10kV~13.8kV Single-Phase Pole-Mounted Distribution Transformers (Silicon Core)

型号 Type	额定容量 Rating (KVA)	HV 高压 (V)	分接范围 Tapping Range (%)	LV 低压 (V)	损耗 Loss (W)		外形尺寸 Dimension (mm)					重量 Weight (kg)	
					空载损耗 No Load Loss	负载损耗 Full Load Loss	A	B	C	D	E	油重 Oil Weight	总重 Total Weight
D11-3	3	13800/ 7967 13200/ 7620 12470/ 7200 11000/ 6350 or others	±2x2.5% or others	120-240 240-480 250-500 or others	9	45	800	400	500	300	286	10	70
D11-5	5				19	75	860	430	510	340		15	92
D11-10	10				36	120	910	470	550	380		22	150
D11-15	15				50	195	970	500	580	410		30	210
D11-25	25				80	290	1025	550	630	450		45	258
D11-37.5	37.5				105	360	1228	630	680	520		50	340
D11-50	50				135	500	1235	630	680	520		62	395
D11-75	75				190	650	1300	680	720	550	591	88	480
D11-100	100				210	850	1350	780	810	610		94	530
D11-167	167				350	1410	1460	830	890	660		138	680
D11-250	250				500	2000	1570	960	950	660		250	990
D11-333	333				650	2500	1660	960	960	660		300	1160

10kV~13.8kV DH15型单相柱上式配电变压器 (非晶合金铁芯)
Technical Data for DH15 Series 10kV~13.8kV Single-Phase Pole-Mounted Distribution Transformers (Amorphous Metal Core)

型号 Type	额定容量 Rating (KVA)	HV 高压 (V)	分接范围 Tapping Range (%)	LV 低压 (V)	损耗 Loss (W)		外形尺寸 Dimension (mm)					重量 Weight (kg)	
					空载损耗 No Load Loss	负载损耗 Full Load Loss	A	B	C	D	E	油重 Oil Weight	总重 Total Weight
DH15-3	3	13800/ 7967 13200/ 7620 12470/ 7200 11000/ 6350 or others	±2x2.5% or others	120-240 240-480 250-500 or others	8	45	800	400	400	300	286	10	60
DH15-5	5				8	75	840	400	480	310		17	75
DH15-10	10				12	120	864	430	510	340		24	100
DH15-15	15				15	195	914	430	510	340		26	125
DH15-25	25				18	290	1041	480	560	380		33	162
DH15-37.5	37.5				30	360	1120	520	610	450		54	240
DH15-50	50				32	500	1245	520	610	450		62	295
DH15-75	75				45	650	1245	600	680	510	591	78	420
DH15-100	100				50	850	1270	640	710	510		89	465
DH15-167	167				65	1410	1470	940	840	610		140	650
DH15-250	250				90	2000	1560	1260	960	660		250	950
DH15-333	333				120	2500	1660	1260	960	660		300	1200



D11型20kV~36kV单相柱上式配电变压器
Technical Data for D11 Series 20kV~36kV Single-Phase Pole-Mounted Distribution Transformers

型号 Type	额定容量 Rating (KVA)	HV 高压(V)	分接范围 Tapping Range (%)	LV 低压 (V)	损耗 Loss (W)		外形尺寸 Dimension (mm)			重量 Weight (kg)	
					空载损耗 No Load Loss	负载损耗 Full Load Loss	L	W	H	油重 Oil Weight	总重 Total Weight
D11-10	10	33000/19000 30000/17320 20000/11547	±2x2.5% or others	120-240 240-480 or others	47	165	590	510	1000	51	160
D11-15	15				58	285	605	600	1030	63	208
D11-25	25				66	448	620	700	1090	82	260
D11-37.5	37.5				88	574	650	730	1195	97	325
D11-50	50				110	700	680	760	1300	115	390
D11-75	75				175	910	730	840	1340	140	460
D11-100	100				215	1300	870	920	1350	170	550
D11-167	167				308	1830	970	1240	1390	195	650
D11-250	250				608	2900	1200	1420	1650	250	850
D11-333	333				650	2500	1570	1230	1395	300	1160

两种铁芯类型供选择 2 Kinds of Core for Selection



硅钢片铁芯 Silicon Core



非晶铁芯 Amorphous Core

两种型式供选择 2 Kinds of Single-Phase Pole-Mounted Transformer for Selection

- 普通型 Conventional Type
- 全自保型 Complete Self Protect Type (CSP Type)

全自保型的主要配件 The Main Spare Parts in CSP Type



断路器 Circuit Breaker



熔丝 Fuse



避雷器 Lightning Arrester

干式系列变压器 10kV-36kV Dry Type Transformer



广高牌干式系列变压器是引进德国进口真空浇注设备和真空（压力）浸漆设备，箔式绕线机及乔格公司的硅钢片剪切设备等生产而成，产品的技术性能指标完全符合GB1094、GB/T10228、GB6450及国际电工IEC60076-11标准。该产品可广泛用于输变电系统、宾馆酒店、高层建筑、商业中心、体育场馆、石化工厂、机场、车站、高铁、地铁、海上钻井台等场所，特别是安装空间有限、需靠近负荷中心和具有特殊防火要求的场合，更能充分发挥其体积小阻燃性好的优越性。

"Guanggao" dry type transformer is made with vacuum, foil type coil winding machines, and silicon steel sheets shearing equipment imported from Georg's, the technology is brought from Germany. The technical specification is totally reached GB1094, GB/T10228, GB6450 and IEC60076-11 international standards. This product can be widely used in electric power transmission system, hotel, high rise buildings, commerce centers, stadiums, petrochemical factories, airports, stations, offshore drilling platforms and so on. Especially the places that near load center, or need special fire safety requirements and whose installation space is limited. Thus advantages of small, good flame resistance can be very attractive.



10kV级SC(B)10系列变压器技术参数 Technical Data for SC(B) 10 Series 10kV Transformer

额定高压：10 (11、10.5、6.6、6.3、6、3.3、3.15) kV 联结组标号：Dyn11 或 Yyn0
Rated HV: 10 (11、10.5、6.6、6.3、6、3.3、3.15) kV Vector Group: Dyn11 or Yyn0

额定低压：0.4kV 绝缘耐热等级：H级 绝缘水平：L175AC35/AC5
Rated LV: 0.4kV Temperature Class of Insulation: Level H Insulation Level: L175AC35/AC5

产品型号 Product Type	PO (w)	PK (w) (145℃)	UK (%)	Lo (%)	LpA (dB)	GT (kg)	外形尺寸 Dimension (mm) L1×B1×H1	安装孔距 Installation pitch d(mm)
SC10-30/10	190	710	4	1.5	45	285	850×700×775	550
SC10-50/10	270	1000		1.1	45	400	940×700×880	550
SC10-80/10	370	1380		0.9	45	450	940×700×880	550
SC10-100/10	400	1570		0.9	45	650	1040×720×1035	550
SC10-125/10	470	1850		0.9	46	690	1070×720×995	550
SC10-160/10	540	2130		0.8	46	810	1130×720×1025	550
SC10-200/10	620	2530		0.8	46	970	1180×720×1050	660
SC10-250/10	720	2760		0.8	46	1075	1180×720×1220	660
SCB10-315/10	880	3470		0.7	46	1480	1280×780×1260	660
SCB10-400/10	980	3990		0.7	48	1870	1200×1000×1270	660
SCB10-500/10	1160	4880		0.7	48	2190	1260×1000×1295	660
SCB10-630/10	1340	5880		0.6	48	2635	1300×1000×1455	660
SCB10-630/10	1300	5960	6	0.6	48	2625	1400×1000×1335	660

10kV级SC(B)11系列变压器技术参数 Technical Data for SC(B) 11 Series 10kV Transformer

额定高压：10 (11、10.5、6.6、6.3、6、3.3、3.15) kV 联结组标号：Dyn11 或 Yyn0
Rated HV: 10 (11、10.5、6.6、6.3、6、3.3、3.15) kV Vector Group: Dyn11 or Yyn0

额定低压：0.4kV 绝缘耐热等级：H级 绝缘水平：L175AC35/AC5
Rated LV: 0.4kV Temperature Class of Insulation: Level H Insulation Level: L175AC35/AC5

产品型号 Product Type	PO (w)	PK (w) (145℃)	UK (%)	Lo (%)	LpA (dB)	GT (kg)	外形尺寸 Dimension (mm) L1×B1×H1	安装孔距 Installation pitch d(mm)
SC11-30/10	160	710	4	1.2	43	285	850×700×775	550
SC11-50/10	230	1000		1.1	43	400	1040×700×880	550
SC11-80/10	320	1380		0.9	43	450	1040×720×880	550
SC11-100/10	350	1570		0.9	43	650	1040×720×1035	550
SC11-125/10	410	1850		0.9	45	690	1070×720×995	550
SC11-160/10	470	2130		0.8	45	810	1130×720×1025	550
SC11-200/10	540	2530		0.8	45	970	1180×720×1050	660
SC11-250/10	630	2760		0.8	46	1075	1180×720×1220	660
SCB11-315/10	770	3470		0.7	46	1480	1280×780×1260	660
SCB11-400/10	850	3990		0.7	46	1870	1200×1000×1270	660
SCB11-500/10	1010	4880		0.7	46	2190	1260×1000×1295	660
SCB11-630/10	1170	5880		0.6	46	2635	1300×1000×1455	660
SCB11-630/10	1130	5960	6	0.6	46	2625	1400×1000×1335	660
SCB11-800/10	1330	6960		0.6	48	2780	1420×1050×1415	820
SCB11-1000/10	1540	8130		0.6	48	3240	1480×1050×1530	820
SCB11-1250/10	1820	9690		0.5	48	3810	1540×1050×1535	820
SCB11-1600/10	2140	11730		0.5	48	4505	1560×1050×1655	820
SCB11-2000/10	2700	14450		0.4	48	5405	1670×1200×1755	1070
SCB11-2500/10	3200	17170		0.4	50	6140	1800×1200×1830	1070

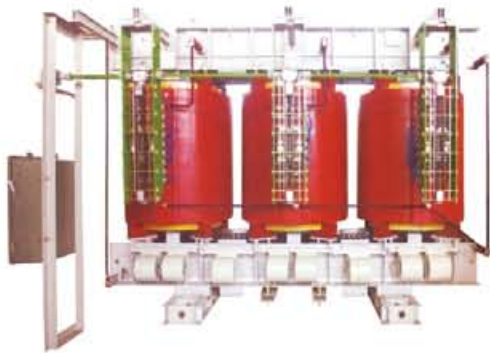
20kV级SC(B)10系列变压器技术参数 Technical Data for SC(B) 10 Series 20kV Transformer

额定高压：20 (22、24) kV 联结组标号：Dyn11 或 Yyn0
Rated HV: 20 (22、24) kV Vector Group: Dyn11 or Yyn0

额定低压：0.4kV 绝缘耐热等级：F级 绝缘水平：L175AC35/AC5
Rated LV: 0.4kV Temperature Class of Insulation: Level F Insulation Level: L175AC35/AC5

产品型号 Product Type	PO (w)	PK (w) (120℃)	UK (%)	Lo (%)	LpA (dB)	GT (kg)	外形尺寸 Dimension (mm) a×b×e	安装孔距 Installation pitch d(mm)
SC10-50/20	340	1230	6	2.5	46	440	1400×780×1200	550
SC10-100/20	540	1990		2.1	46	760	1400×780×1200	550
SC10-160/20	670	2470		1.6	46	1070	1450×820×1260	550
SC10-200/20	730	2940		1.6	46	1280	1480×820×1260	550
SC10-250/20	840	3420		1.4	48	1510	1480×820×1300	660
SC10-315/20	970	4080		1.4	48	1800	1500×900×1300	660
SC10-400/20	1150	4840		1.2	50	2160	1500×900×1370	660
SC10-500/20	1350	5790		1.2	50	2540	1580×1050×1455	660
SCB10-630/20	1530	6840		1	52	3040	1580×1050×1550	660
SCB10-800/20	1750	8260		1	52	3630	1660×1050×1680	820
SCB10-1000/20	2070	9780		0.9	52	4290	1700×1200×1740	820
SCB10-1250/20	2380	11540		0.8	54	5070	1830×1200×1820	820
SCB10-1600/20	2790	13870		0.8	54	6110	1910×1200×1970	820
SCB10-2000/20	3240	16380		0.8	56	7220	2040×1200×2070	1070
SCB10-2500/20	3870	19380		0.8	56	8250	2150×1200×2160	1070

35kV级S(B)10系列变压器技术参数
Technical Data for S(B) 10 Series 35KV Transformer



带MR开关的有载调压变压器
Transformer with on-load tap-changer with MR switch



10kV干式接地变压器
10kV dry type grounding power transformer

额定高压：35 (38.5) kV 联结组标号：Dyn11 或 Yyn0
Rated HV: 35 (38.5) kV Vector Group: Dyn11 or Yyn0

额定低压：0.4kV 绝缘耐热等级：F级 绝缘水平：L175AC35/AC5
Rated LV: 0.4kV Temperature Class of Insulation: Level F Insulation Level: L175AC35/AC5

产品型号 Product Type	PO (w)	PK (w) (120℃)	UK (%)	Lo (%)	LpA (dB)	GT (kg)	外形尺寸 Dimension (mm) a×b×e	安装孔距 Installation pitch d(mm)
SC10-50/35	45	1425	6	2.5	46	480	1540×780×1320	550
SC10-100/35	630	2090		2.1	46	820	1540×780×1370	550
SC10-160/35	790	2810		1.6	46	1160	1580×820×1395	550
SC10-350/35	880	3325		1.6	46	1380	1600×820×1455	550
SC10-250/35	990	3800		1.4	48	1630	1680×820×1415	660
SC10-315/35	1180	4510		1.4	48	1940	1750×1050×1535	660
SC10-400/35	1370	5415		1.2	50	2325	1760×1050×1680	660
SC10-500/35	1620	6650		1.2	50	2740	1860×1050×1800	660
SCB10-630/35	1860	7695		1	52	3270	1930×1050×1935	660
SCB10-800/35	2160	9120		1	52	3910	1960×1050×1985	835
SCB10-1000/35	2430	10450		0.9	52	4620	2000×1200×2025	835
SCB10-1250/35	2835	12730		0.8	54	5460	2060×1200×2180	835
SCB10-1600/35	3240	15480		0.8	54	6570	2150×1200×2250	835
SCB10-2500/35	3825	18240		0.8	56	7770	2200×1200×2300	1070
SCB10-3500/35	4455	21850		0.8	56	8875	2350×1200×2350	1070

10kV级SG(B)10系列变压器技术参数
Technical Data for SG(B) 10 Series 10kV Transformer



SG(B)系列非密封干式变压器
SG(B) Series of Dry Type Transformer



ZTS系列干式移相整流变压器
ZTS Series of Dry-Type Phase-Shifting Rectifier Transformer



干式消弧线圈
Dry Type Arc-Suppression Coil

额定高压：10 (11, 10.5, 6.6, 6.3, 6, 3.3, 3.15) kV 联结组标号：Dyn11 或 Yyn0
Rated HV: 10 (11, 10.5, 6.6, 6.3, 6, 3.3, 3.15) kV Vector Group: Dyn11 or Yyn0

额定低压：0.4kV 绝缘耐热等级：H级 绝缘水平：L175AC35/AC5
Rated LV: 0.4kV Temperature Class of Insulation: Level H Insulation Level: L175AC35/AC5

产品型号 Product Type	PO (w)	PK (w) (145℃)	UK (%)	Lo (%)	LpA (dB)	GT (kg)	外形尺寸 Dimension (mm) L1×B1×H1	安装孔距 Installation pitch d(mm)
SG10-30/10	190	760	4	1.5	45	385	920×720×830	550
SG10-50/10	270	1070		1.1	45	485	930×720×850	550
SG10-80/10	370	1480		0.10	45	605	980×720×880	550
SG10-100/10	400	1690		0.10	45	745	1080×720×1120	550
SG10-125/10	470	1980		0.10	46	790	1100×720×1120	550
SG10-160/10	540	2280		0.8	46	850	1180×720×1240	550
SG10-200/10	620	2710		0.8	46	975	1210×720×1240	660
SG10-250/10	720	2960		0.8	46	1165	1250×720×1250	660
SGB10-315/10	880	3730		0.7	46	1385	1310×720×1260	660
SGB10-400/10	980	4280		0.7	48	1655	1370×880×1280	660
SGB10-500/10	1160	5230	6	0.7	48	1950	1275×1050×1310	660
SGB10-630/10	1340	6290		0.6	48	2330	1290×1050×1330	660
SGB10-630/10	1300	6400		0.6	48	2265	1375×1050×1345	660
SGB10-800/10	1520	7460		0.6	50	2825	1450×1050×1440	820
SGB10-1000/10	1770	8760		0.6	50	3225	1500×1050×1440	820
SGB10-1250/10	2090	10370		0.5	50	3640	1500×1050×1530	820
SGB10-1600/10	2450	12580		0.5	50	4390	1560×1050×1705	820
SGB10-2000/10	3050	15560		0.4	50	5180	1650×1200×1790	1070
SGB10-2500/10	3600	18450		0.4	52	6135	1670×1200×1910	1070

10kV级SG(B)11系列变压器技术参数
Technical Data for SG(B) 11 Series 10kV Transformer

额定高压 : 10 (11, 10.5, 6.6, 6.3, 6, 3.3, 3.15) kV 联结组标号 : Dyn11 或 Yyn0
Rated HV: 10 (11, 10.5, 6.6, 6.3, 6, 3.3, 3.15) kV Vector Group: Dyn11 or Yyn0

额定低压 : 0.4kV 绝缘耐热等级 : H级 绝缘水平 : L175AC35/AC5
Rated LV: 0.4kV Temperature Class of Insulation: Level H Insulation Level: L175AC35/AC5

产品型号 Product Type	PO (w)	PK (w) (145℃)	UK (%)	Lo (%)	LpA (dB)	GT (kg)	外形尺寸 Dimension (mm) L1×B1×H1	安装孔距 Installation pitch d(mm)
SG11-30/10	160	760	4	1.5	45	385	920×720×830	550
SG11-50/10	230	1070		1.1	45	485	930×720×850	550
SG11-80/10	320	1480		0.10	45	605	980×720×880	550
SG11-100/10	350	1690		0.10	45	745	1080×720×1120	550
SG11-125/10	410	1980		0.10	46	790	1100×720×1120	550
SG11-160/10	470	2280		0.8	46	850	1180×720×1210	550
SG11-200/10	540	2710		0.8	46	975	1210×720×1240	660
SG11-250/10	630	2960		0.8	46	1165	1250×720×1250	660
SGB11-315/10	770	3730		0.7	46	1385	1310×720×1260	660
SGB11-400/10	850	4280		0.7	48	1165	1370×880×1280	660
SGB11-500/10	1010	5230	6	0.7	48	1950	1275×1050×1310	660
SGB11-630/10	1170	6290		0.6	48	2330	1290×1050×1330	660
SGB11-630/10	1130	6400		0.6	48	2265	1375×1050×1345	660
SGB11-800/10	1330	7460		0.6	50	2825	1450×1050×1440	820
SGB11-1000/10	1540	8760		0.6	50	3225	1500×1050×1440	820
SGB11-1250/10	1820	10370		0.5	50	3640	1500×1050×1530	820
SGB11-1600/10	2140	12580		0.5	50	4390	1560×1050×1705	820
SGB11-2000/10	2700	15560		0.4	50	5180	1650×1200×1790	1070
SGB11-2500/10	3200	18450		0.4	52	6135	1670×1200×1910	1070

10kV级SG(B)13系列变压器技术参数
Technical Data for SG(B) 13 Series 10kV Transformer

额定高压 : 10 (11, 10.5, 6.6, 6.3, 6, 3.3, 3.15) kV 联结组标号 : Dyn11 或 Yyn0
Rated HV: 10 (11, 10.5, 6.6, 6.3, 6, 3.3, 3.15) kV Vector Group: Dyn11 or Yyn0

额定低压 : 0.4kV 绝缘耐热等级 : H级 绝缘水平 : L175AC35/AC5
Rated LV: 0.4kV Temperature Class of Insulation: Level H Insulation Level: L175AC35/AC5

产品型号 Product Type	PO (w)	PK (w) (145℃)	UK (%)	Lo (%)	LpA (dB)	GT (kg)	外形尺寸 Dimension (mm) L1×B1×H1	安装孔距 Installation pitch d(mm)
SG13-30/10	130	760	4	1.5	45	420	1000×720×860	550
SG13-50/10	180	1070		1.1	45	530	1030×720×860	550
SG13-80/10	250	1480		0.10	45	665	1080×720×860	550
SG13-100/10	270	1690		0.10	45	820	1160×720×1150	550
SG13-125/10	310	1980		0.10	46	870	1180×720×1240	550
SG13-160/10	360	2280		0.8	46	935	1260×720×1240	550
SG13-200/10	420	2710		0.8	46	1075	1290×720×1280	660
SG13-250/10	480	2960		0.8	46	1280	1330×720×1280	660
SGB13-315/10	590	3730		0.7	46	1525	1390×720×1330	660
SGB13-400/10	660	4280		0.7	48	1820	1450×880×1370	660
SGB13-500/10	780	5230	6	0.7	48	2145	1540×1050×1440	660
SGB13-630/10	900	6290		0.6	48	2560	1550×1050×1515	660
SGB13-630/10	870	6400		0.6	48	2490	1620×1050×1420	660
SGB13-800/10	1020	7460		0.6	50	3105	1670×1050×1470	820
SGB13-1000/10	1190	8760		0.6	50	3545	1730×1050×1510	820
SGB13-1250/10	1410	10370		0.5	50	4000	1730×1050×1620	820
SGB13-1600/10	1650	12580		0.5	50	4820	1850×1050×1690	820
SGB13-2000/10	2040	15560		0.4	50	5690	1910×1200×1790	1070
SGB13-2500/10	2400	18450		0.4	52	6740	2000×1200×1900	1070

20kV级SG(B)10系列变压器技术参数
Technical Data for SG(B) 10 Series 20kV Transformer

额定高压 : 20 (22, 24) kV 联结组标号 : Dyn11 或 Yyn0
Rated HV: 20 (22, 24) kV Vector Group: Dyn11 or Yyn0

额定低压 : 0.4kV 绝缘耐热等级 : H级 绝缘水平 : L175AC35/AC5
Rated LV: 0.4kV Temperature Class of Insulation: Level H Insulation Level: L175AC35/AC5

产品型号 Product Type	PO (w)	PK (w) (145℃)	UK (%)	Lo (%)	LpA (dB)	GT (kg)	外形尺寸 Dimension (mm) L1×B1×H1	安装孔距 Installation pitch d(mm)
SG10-50/20	340	1320	6	2.5	46	450	1360×780×1180	550
SG10-100/20	540	2130		2.1	46	755	1360×780×1200	550
SG10-160/20	670	2660		1.6	46	1055	1450×820×1230	550
SG10-200/20	730	3140		1.6	46	1290	1450×820×1260	550
SG10-250/20	840	3710		1.4	48	1500	1480×820×1320	660
SG10-315/20	970	4370		1.4	48	1820	1500×900×1330	660
SG10-400/20	1150	5180		1.2	50	2180	1500×900×1390	660
SG10-500/20	1350	6170		1.2	50	2575	1550×1050×1420	660
SGB10-630/20	1530	7360		1	52	3030	1550×1050×1515	660
SGB10-800/20	1750	8830		1	52	3660	1640×1050×1650	820
SGB10-1000/20	2070	10450		0.9	52	4300	1700×1200×1760	820
SGB10-1250/20	2380	12350		0.8	54	5090	1800×1200×1815	820
SGB10-1600/20	2790	14860		0.8	54	6050	1920×1200×1990	820
SGB10-2000/20	3240	17570		0.8	56	7120	2070×1200×2040	1070
SGB10-2500/20	3870	20710		0.8	56	8000	2130×1200×2130	1070

S(B)H15非晶合金变压器 S(B)H15 Amorphous Alloy Core Distribution Transformers

S(B)H15非晶合金铁芯配电变压器作为一种节能的新技术配电设备，节能功效主要源自采用了一种新型的、具有优异软磁性能的材料，铁基非晶合金及严格的设计和制造工艺非晶合金带材含铁78%-81%、含硼13.5%、含硅3.5%-8%，另外还含微量的和等金属元素非晶合金的变压器空载损耗非常低，仅为S9型硅钢变压器的20%，相对降耗达80%非晶合金变压器符合国家产业政策和电网节能降耗的要求。

As an energy-efficient new technology and distribution equipment, S(B)H15 amorphous alloy core distribution transformers use an excellent, novel soft magnetic properties material to save the energy. Iron-based amorphous alloy has strict design and manufacturing process, the amorphous alloy strip contains iron elements for 78%-81%, boron 13.5%, silicon 3.5%-8%. Besides, it also contains a trace amount of metal elements such as nickel and cobalt elements. The no-load loss of amorphous alloy transformer is quite low, only 20% of the S9 type silicon steel transformer, the relative decrease loss up to 80%. As a result, the amorphous alloy transformer complies with national industrial policy and the requirements of saving energy from Grid.

SCBH15干式非晶合金铁芯配电变压器属新型节能变压器。它比用硅钢片作为铁芯的变压器空载损耗下降70%以上，空载电流下降约80%，是目前节能效果最佳的干式配电变压器。是符合国家经委、计委颁布的《中国节能技术大纲》精神的理想电气产品。

SCBH15 series amorphous alloy dry-type transformers with low no-load, oil-free, flame-retardant self-extinguishing, resistant to moisture and maintenance. All places where ordinary dry-type transformers are also suitable for amorphous alloy transformer, including airports, railways stations, city subway, high-rise building and power plants, especially compliant in flammable, explosive and and electricity shortages. It is comply with the ideal electrical products spirit of the China Energy Technology Outline that issued by the State Economic Commission and the Planning Commission.



型号 Type	额定容量 Rating (KVA)	电压组合 Voltage Combination		连接组别 Vector Group	损耗 Loss (W)		空载电流 No load Current (%)	阻抗 IMP VOL (%)	外形尺寸 Dimension (mm) L x W x H	重量 Weight (kg)	
		HV 高压 (kV)	分接范围 Tapping Range (%)		空载损耗 No Load Loss	负载损耗 Full Load Loss				油重 Oil Weight	总重 Total Weight
SH15-30	30	6 6.3 6.6 10 10.5 11 13.2 20 30 33 35	±2x2.5% Or ±5%	0.4 Or 0.415 Or others	33	600	1.7	4.0	1100 × 690 × 1090	130	630
SH15-50	50				43	870	1.3	4.0	1190 × 750 × 1140	160	710
SH15-60	60				50	1040	1.2	4.0	1250 × 750 × 1160	160	750
SH15-80	80				60	1250	1.1	4.0	1290 × 750 × 1200	170	810
SH15-100	100				75	1500	1.0	4.0	1300 × 800 × 1210	180	870
SH15-125	125				85	1800	0.9	4.0	1320 × 810 × 1220	190	940
SH15-160	160				100	2200	0.7	4.0	1370 × 810 × 1220	210	1050
SH15-200	200				120	2600	0.7	4.0	1410 × 810 × 1320	230	1140
SH15-250	250				140	3050	0.7	4.0	1490 × 810 × 1360	260	1290
SH15-315	315				170	3650	0.5	4.0	1520 × 820 × 1430	280	1500
SH15-400	400				200	4300	0.5	4.0	1670 × 820 × 1430	330	1710
SH15-500	500				240	5150	0.5	4.0	1700 × 910 × 1440	370	1960
SH15-630	630				320	6200	0.5	4.5	1830 × 920 × 1450	430	2250
SH15-800	800				380	7500	0.3	4.5	1910 × 950 × 1500	480	2730
SH15-1000	1000				450	10300	0.3	4.5	2000 × 1100 × 1520	620	3300
SH15-1250	1250				530	12000	0.2	4.5	2100 × 1100 × 1580	730	3560
SH15-1600	1600				630	14500	0.2	4.5	2120 × 1240 × 1600	860	3830

YBW高压/低压预装式变电站 (欧式箱变) YBW High-Voltage/Low Voltage prefabricated substation

YBW11、YBW11G型系列高压/低压预装式变电站 (以下简称变电站) 是广州广高高压电器有限公司吸收国内外同类产品优点的基础上，结合目前配电实际而开发的新一代产品，产品符合GB/T17467-1998《高压/低压预装式变电站》标准。

本系列变电站用于额定电压6~10kV, 三相交流50Hz的环网供电和终端供电系统中，把高压电变为400/230V低压，直接供给客户用电。该产品具有成套性强、安装周期短、占地面积小、投资省、运行安全可靠、造型美观、易与周围环境相协调等特点，尤其在减少基期投资、缩短建设周期、美化城市环境等方面显示出独特的功效。产品适用于住宅小区、公共场所、机场、码头、地铁、宾馆、学校、医院、工厂等流动性强的建设工程施工工地、矿山、油田等场合使用。

The YBW High-Voltage/Low Voltage prefabricated substation is the latest generation product, which has been developed based on the strongpoint of international similar products, and the need of power distribution. It is up to the standard of GB/T17467-1998 <High-Voltage/Low-Voltage Prefabricated Substation>. This substation is used in ring network power supply and terminal power supply, when the rated voltage is 6~10kV, the three-phase AC is 50Hz. By changing the voltage from 400V into 230V, it can provide power to customer directly. The following are the product's advantages: complete and strong, short installation cycle, small size, saving investment, safety in operation, attractive appearance, easily harmonized to the surrounding environment, particularly when we want to reduce investment in the base period, shorten the construction period and beautify city environment, it is the best choice. The product is suitable for residence community, public place, airport, boatyards, undergrounds, hotels, schools, hospitals, factories and such construction site of high liquidity, including mines, oil deposits.



YBW高压/低压预装式变电站
YBW High-Voltage/Low Voltage Prefabricated Substation

ZGS型组合式变压器 ZGS Type Single & Three Phase Pad-Mounted Transformer

ZGS9(11)型系列组合式变电站 (俗称美式箱变) 是广州广高高压电器有限公司吸收国内外同类产品优点的基础上，结合目前配电需要而开发的新一代产品。

本系列变电站用于额定电压6~10kV, 三相交流50Hz的环网供电和终端供电系统中，额定容量为80~1600kVA的独立成套配电装置。该系列产品具有电压质量高，中性点不漂移；损耗小；噪音低；体积小；投资省；安全及环保；可直接安装在绿化带内，造型美观等优点。广泛应用于城乡、住宅小区、公共场所、厂矿、铁矿、码头、油田及临时性设施等户外供电场所。

ZGS Type Integral Unit Substation Single & Three Phase Pad-Mounted Transformer is the latest generation product which has been developed based on the strongpoint of international similar products and the need of power distribution.

This series of substation are used in ring network power supply and terminal power supply, when the rated voltage is 6~10kV, the three-phase AC is 50Hz. It can also be used in independent set distribution transformer unit, the rated capacity of this substation is 80~1600kVA. This substation has many advantages: high voltage, no drifting of neutral point, low loss, small volume, saving investment, safety and environmental protection, attractive appearance, it can be directly installed in the green band, and can be widely used in outdoor power sites, such as city and countryside, residence community, public place, factories and mines, iron mines, boatyards, oil field and temporary facilities.



10kV-36kV级三相箱式配电变压器
Technical Data for 10kV-36kV Class Three-Phase Pad-Mounted Distribution Transformer

型号 Type	额定容量 Rating (KVA)	电压组合 Voltage Combination			连接组别 Vector Group	损耗 Loss (W)		空载电流 No load Current (%)	阻抗 IMP. VOL (%)	外形尺寸 Dimension (mm) L x W x H	重量 Weight (kg)	
		HV 高压 (kV)	分接范围 Tapping Range (%)	LV 高压 (kV)		空载损耗 No Load Loss	负载损耗 Full Load Loss				油重 Oil Weight	总重 Total Weight
10kVA	10	6 6.3 6.6 10 10.5 11 12.47 13.2 13.8 15 20 30 33 35 36	±2x2.5% Or ±3x2.5% Or ±5%	0.4 Or 0.415 Or others	Yyn0 Or Dyn11	45	306	3.3	4.0	1180×590×1310	74	252
15kVA	15					58	360	2.2	4.0	1260×590×1310	94	264
20kVA	20					80	521	2.2	4.0	1300×820×1330	96	288
25kVA	25					90	577	2.1	4.0	1330×820×1330	102	300
30kVA	30					100	600	1.3	4.0	1350×820×1350	108	480
50kVA	50					310	870	1.1	4.0	1370×880×1400	120	550
63kVA	63					150	1040	1.0	4.0	1380×900×1420	132	600
80kVA	80					180	1250	0.9	4.0	1390×910×1430	138	660
100kVA	100					200	1500	0.8	4.0	1420×920×1430	144	744
125kVA	125					240	1800	0.8	4.0	1470×950×1530	174	840
160kVA	160					280	2200	0.7	4.0	1510×980×1530	210	996
200kVA	200					340	260	0.7	4.0	1550×980×1640	228	1092
250kVA	250					400	3050	0.6	4.0	1600×1000×1660	240	1200
315kVA	315					480	365	0.6	4.0	1660×1080×1680	264	1428
400kVA	400					560	4300	0.5	4.0	1700×1080×1740	312	1716
500kVA	500					680	5100	0.5	4.0	1810×1160×1790	336	1920
630kVA	630					810	6200	0.5	4.5	1940×1270×1830	396	2196
800kVA	800					980	7500	0.4	4.5	2030×1300×2030	540	2760
1000kVA	1000					1150	10300	0.4	4.5	2210×1470×2150	660	3240
1250kVA	1250					1360	12000	0.3	4.5	2380×1600×2220	756	3840
1600kVA	1600					1640	14500	0.3	4.5	3070×1650×2330	960	4440



单相箱变
Single-Phase Pad-Mounted Transformer

10kV-36kV级单/三相箱式变压器
Technical data for 10kV-36kV Single & Three Phase Pad-Mounted Transformer

型号 Type	额定容量 Rating (KVA)	HV 高压(V)	分接范围 Tapping Range (%)	LV 低压 (V)	损耗 Loss (W)		重量 Weight (kg)	
					空载损耗 No Load Loss	负载损耗 Full Load Loss	油重 Oil Weight	总重 Total Weight
15kVA	15	33000/ 19000 30000/ 17320 20000/ 11547 13800/ 7967 13200/ 7620 12470/ 7200	±2x2.5% or others	120	50	195	45	294
25kVA	25				80	290	68	362
37.5kVA	37.5				105	360	75	476
50kVA	50				135	500	93	553
75kVA	75			480 or 120-240 240-480	190	650	132	672
100kVA	100				210	850	141	742
167kVA	167				350	1410	207	952
250kVA	250				500	2000	375	1386

注：以上参数仅为典型值供参考，可依据客户要求定做。
Note: The above parameter is only for reference as typical data, customer-made is subject to customers' request.

KYN28A-12(Z)型铠装移开式交流高压金属封闭开关设备

KYN28A-12(Z)型铠装移开式交流高压金属封闭开关设备（以下简称开关设备），系3.6-12kV三相交流50Hz单母线及单母线分段系统的成套配电装置，主要用于发电厂、中小型发电机送电、工矿企业事业单位配电以及电业系统的二次变电所的受电、送电及大型高压电动机启动等。实行控制保护、监测之用，本开关设备满足IEC298、GB3906、及DL/404等标准要求。具有防止带负荷推拉断路器手车、防止误分、误合断路器、防止接地开关处于闭合位置时关合断路器，防止误入带电间隔、防止在带电时误合接地开关的连锁功能，既可配用ABB公司的VD4断路器，又可配用国产VSI真空断路器，实为一种性能优越的配电装置。

KYN28A-12(Z) armored moving type AC high-voltage metal-enclosed switchgear

KYN28A-12(Z) armored moving type A.C. high-voltage metal-enclosed switchgear, with a single busbar of 3.6-12kV, three-phase AC 50Hz and complete sets of equipment of single-busbar power distribution sub-system, it can be used in power station, small and medium electric generator's power transmission, power distribution of industrial and mining enterprises, power receiving and transmission of the electrical utilities' secondary substations, including the start of large high-voltage electric motor.

For the purposes of controlling, protecting, monitoring, the switchgear totally meets IEC298, GB3906, DL/404 standards. It can prevent such situations: use circuit breaker with a load sliding, breaking or closing circuit-breaker by wrong, closing circuit-breaker when the earthing switch is in the closed position, strayed into the live interval, closing the earthing switch with electrification. It can equipped with ABB's VD4 circuit breaker or Chinese-made VSI vacuum circuit breakers, certainly it is a power distribution equipment of superior performance.



KYN28A-12(Z)
型铠装移开式交流高压金属封闭开关设备
KYN28A-12(Z) armored moving type AC
high-voltage metal-enclosed switchgear

XGN2-12型箱型固定式交流高压金属封闭开关设备

XGN2-12型箱型固定式交流高压金属封闭开关设备（简称开关柜）适用于额定电压3.6、7.2、12kV、三相交流50Hz系统中作为接受与分配电能之用。其母线系统为单母线，可派生出单母线带旁路和双母线结构。

本开关柜符合国家标准GB3906《3~3 kV交流金属封闭开关设备》及国家标准IEC298《交流金属封闭开关设备和控制设备》的要求，并具有“五防”闭锁功能和满足全工况要求。

本开关柜采用ZN28、ZN63、ZN98A、VSI等系列真空断路器，配用先进合理的弹簧操动机构或电磁操动机构，隔离开关采用GN30-12旋转式隔离开关和GN22-12电流隔离开关系列产品。该开关柜设计新颖、结构合理、维护方便、“五防”闭锁功能可靠，具有体积小、寿命长、少维护、运行安全可靠、操作简便等特点。

XGN2-12 Tank-type (fixed) AC H.V. metal-enclosed switchgear

XGN2-12 Tank-type(fixed) AC H.V. metal-enclosed switchgear (short for switchgear) is suitable for 3.6、7.2、12kV、50Hz three-phase AC system, used as electric energy acceptance and distribution. Its busbar system is single busbar with shunt circuit loop, can derive double busbar structure.

This switch cabinet is according with GB3906《3~3 kV AC metal-enclosed switchgear》and IEC298《AC metal-enclosed switchgear and control equipment》, it also has "five-anti" interlocking functions, to meet the requirements of all working condition.

This switch cabinet adopted ZN28、ZN63、ZN98A、VSI series of vacuum circuit breaker, equipped with the advanced and reasonable spring actuator or electromagnetic actuator, all the disconnect switches are the series of GN30-12 rotary disconnect switch and GN22-12 current disconnect switch. Its characteristics: modern design、rational structure、convenient maintenance、"five-anti" interlocking functions、small、simple maintenance, and the operation is easy and safe.



XGN2-12型箱型固定式交流高压金属
封闭开关设备
XGN2-12 Tank-type (fixed) AC H.V. metal-enclosed
switchgear

XGN15-12型交流高压六氟化硫环网开关设备

XGN15-12型交流高压六氟化硫环网开关设备，（以下简称SF6环网柜）是城市电网建设与改造而研制的新一代高压开关设备。配用具有国际先进水平的FL(R)N36-12D系列或ABB的SFG系列SF6负荷开关。符合IEC298、IEC420、GB3906、DL/T404等标准的要求。并具有可靠的“五防”防误操作功能，防护等级为IP2X~IP3X。

XGN15-12型SF6环网柜具有体积小、重量轻、操作简便、操作力轻、使用安全、维护方便等特点。适用于交流50Hz、12kV的配电网中，作为电能接手、分配、控制和保护电力设备之用。广泛应用于变电站、工矿企业、高层建筑、住宅小区及预装式变电站等场所。

XGN15-12 type AC high-voltage sulfur hexafluoride ring switchgear

XGN15-12 AC type high-voltage sulfur hexafluoride ring switchgear (short for SF6 ring switchgear) is the latest generation product based on the construction and retrofit of urban power networks. There are two series of load switch: FL(R)N36-12D and SF6 of ABB SFG series, they all have reached the international advanced level, and IEC298、IEC420、GB3906、DL/T404 standards. Moreover, with reliable "five-anti" interlocking "anti-false" function, the level of protection is up to IP2X~IP3X.

XGN15-12 type SF6 ring switchgear's characteristics: small volume、light weight、easy operation、easy maintenance、safety in use. It is suitable for AC 50Hz, 12kV distribution network, act as taking over the power、distributing、controlling and protecting power equipment. It is widely used in substations, industrial and mining enterprises, high rise buildings, residence communities, and prefabricated substations.



XGN15-12型
交流高压六氟化硫环网开关设备
XGN15-12 type AC high-voltage sulfur
hexafluoride ring switchgear

GGLX16-12系列环网开关设备

GGLX16-12系列开关是采用三维计算机仿真技术优化，运用国际一流的制造设备及工艺，开发制造的共箱式SF6气体全绝缘全密封中压环网模块化扩展型开关型。

GGLX16-12系列环网开关设备是一个完全密封及绝缘的系统，其所有的带电部件以及开关均封闭在不锈钢的壳体内，整个开关装置不受外部环境条件的影响，确保设备运行的可靠性及安全，实现了免维护。通过内置母线扩展，可实现任意组合，达到全模块化；在实现全屏蔽和全绝缘的高可靠性及安全性的他是，节省空间，减少投资。GGLX16系统同时提供自动化解决方案，方便升级为智能型环网柜，为客户提供面向未来的供配电方案。

GGL16系统开关的环网主单元在同一个绝缘气室内最多可以配置5个单元模块（计量模块除外），L、F、V、D、S模块可以实现任意组合，除计量柜外所有单元模块宽度为325mm,深度为750mm,计量柜宽度为800mm,深度为850mm;紧凑的尺度同时又不影响施工的方便性。

所有开关的箱体为不锈钢板经机器人全自动TIG密封焊接，高压带电部分位于不锈钢箱体内部，充入1.35巴（20℃）的SF6气体，防护等级达到IP67。

GGLX16-12系列所有均符合IEC60298标准，已按中国国家标准通过了型式试验，使用寿命超过20年。

GGLX16-12 ring network device

The series of GGLX16-12 SF6 gas insulated switchgear with the adoption of the ring modular extension design which use the three-dimensional computer simulation technology to optimize and the world-class manufacturing equipment and processes to develop.

GGLX16-12 ring network device is a completely sealed and insulated system. All of its live parts and switching are all enclosed in a stainless shell. The entire switching device from the external environmental conditions, to ensure the reliability and security of the equipment to achieve a maintenance-free. Any combination of built-in bus expansion to full-modular; fully shielded and fully insulated to made the high reliability and safety. and save space, reduced investment. In the meanwhile GGLX16-12 providing the automation solution, easy to upgrade the network switch for the smart-ring, proving customers with the supply and distribution program for the future.

GGLX16 switch main unit of the ring network can be configured with an insulating gas chamber up to five cell modules (except for metering module), L, F, V, D and S-modules to achieve any combination of metering cabinet width 325mm, the depth is 750mm, metering cabinet width 800mm, depth 850mm; compact scale without compromising the convenience of construction.

All switchgear are stainless steel plate. sealed automatic with TIG welding by robot, high-voltage live parts in stainless cabinets, filled with 1.35MPa gas SF6 (20℃), protection rating to Ip67.

GGLX1-12 series are in line with IEC60298 standard has been adopted by the Chinese national standard type test, the service the service life of more than 20 years.



GGLX16-12系列环网开关设备
GGLX16-12 ring network device

XGN17-12 (ZF . R) 型交流高压真空环网开关设备



XGN17-12 (ZF·R) 型交流高压真空环网开关设备内装国内外新型FZN□-12QD型或LK-VLBS1型户内交流高压真空负荷开关，FZRN□-12QD型或LK-VLBS2型户内交流高压真空负荷开关熔断器组合电器和CT□12弹簧操动机构。产品用于12kV，额定功率50Hz三相交流配电系统中，作为分合负荷电流、开断短路电流及关合短路电流之用，也可开断变压器空载电流，一定距离架空线或电缆线路充电电流，起控制和保护作用。本产品是环网供电和终端供电的重要开关设备。广泛应用于变电站、工矿企业、住宅小区、高层建筑等重要用电部门以及高压/低压预装式变电站。产品技术性能符合IEC298、IEC420、GB3906、GB3804、DL404等标准。

XGN17-12 (ZF . R) 型交流高压真空环网开关设备



XGN17-12 (ZF·R) AC high-voltage vacuum ring switchgear, within which equipped with FZN□-12QD type or LK-VLBS1 type indoor high-voltage vacuum load switch, FZRN□-12QD type or LK-VLBS2 type indoor high-voltage vacuum load switch fuse combinations and CT□12 spring operating mechanism, it is suitable for three-phase AC power distribution system of 12kV, 50Hz. For breaking or closing load current, breaking short circuit current, closing short-circuit current, breaking transformer no-load current, charging current from the overhead line or cable line in certain distance, it can controlling and protecting power equipment. This product is the important switchgear of ring network power supply and terminal power supply, can be widely used in electric department and high-voltage/ low-voltage prefabricated substation, such as substations, industrial and mining enterprises, high rise buildings, residence community. The technical specification is totally reached the requirements of IEC298, IEC420, GB3906, GB3804, DL404.



XGN17-12(ZF . R)型交流高压真空环网开关设备
XGN17-12(ZF . R) type AC high-voltage vacuum ring switchgear

XGN18-12型交流金属封闭环网开关设备



XGN18-12 (F、FR) 箱型固定式交流金属封闭环网开关设备，内装意大利VEI公司ISARC型或国产系列压气式负荷开关。产品适用于10kV、50Hz三相交流配电系统，在开关站对各分支进行控制，起分配和开闭作用。广泛应用于环网供电和终端供电，以及箱式变电站等。产品技术性能符合IEC298、IEC420、GB3906、DL404等标准。

XGN18-12 type AC metal-enclosed ring switchgear



XGN18-12 AC metal-enclosed ring switchgear, built-in Italian VEI's ISARC or Chinese-made pressure-operated load switch, are suitable for 10kV, 50Hz three-phase AC power distribution system. It played the role of distributing and opening & closing the branches of the switch. Ring switchgear is widely used in ring electricity power supply and terminal power supply, as well as box-type substation and so on. The technical specification is in line with IEC298, IEC420, GB3906, DL404 standards.



XGN18-12型交流金属封闭环网开关设备
XGN18-12 type AC metal-enclosed ring switchgear

10 kV户外电缆分接箱

Gs系列电缆分接箱是我公司根据电力市场需求，自行开发、设计和生产的新一代电缆分接设备、广泛应用于10kV电力系统中电缆分接。其联接方式简单、灵活方便、安全可靠。分接箱外壳采用2mm厚的不锈钢板制作而成，表面抛光后、小巧、美观、安装方便、基础量小、可灵活分接100mm²及以下的电缆，2-10分支任意组合。带电部分为全绝缘、全密封结构。如采用防供可触摸型电缆头，还可耐洪水侵袭。箱内配有带电显示装置，从箱体外通过观测孔观察带电显示装置来判断电缆回路是否带电，极大地提高供电可靠性，根据需要可做成欧式（左右开门）或美式（前面开门）外壳箱体。该产品广泛应用于城市工业小区、住宅小区、商业中心、矿区和钢铁、汽车、石油、化工、水泥等大型企业以及其它场合的配电网，特别适合城市电网改造工程，可大大节省电缆投资。

10 kV outdoor cable branch box

Adapting to the power market development, we have designed and developed the Gs series of cable branch box by self, this new generation of cable distribution equipment is suitable for cable distribution of 10kV power systems. The connection is simple, flexible and convenient, safe and reliable. The branch box case is made of 2mm thick stainless steel plate, after surface polishing or electrostatic spraying, it became small, beautiful, easy installation, little basement, can tap 100mm² and the belows cable easily, 2-10 branch of any combinations. The live parts of sealed structure is whole insulated.

It will resistant to flooding if anti-touch-type cable end is used. With a live display device, we can observe through outside, to determine whether the cable circuits is live, which greatly improves reliability of power supply, the box case can be made into either European-style (left or right open) or American-style (front door) of the case. The product can be widely used in urban industrial zone, residence community, commerce center, mining area, iron and steel, automobile, petroleum, chemical, cement and such large business, especially for city power grids project, since it can save the cable Investment.



10 kV户外电缆分接箱
10 kV outdoor cable branch box

变频器

变频器采用国际高性能功率模块和调整微电脑芯片，整机可靠性高；对电压波动适应性强，允许输入电压在±20%波动；高输出扭矩，低速可达150%；具有多种控制方式，适应不同的场合控制需求，最大功率可达450KW；内置PID调节器，实现闭环控制；显示各种参数、状态、故障现象；具有良好的操作通讯界面，标准RS485接口，极易组成集中控制系统。广泛应用于电力、冶金、市政建设和石油化工等工业领域，起到节能降耗、改善工况、提高电机系统稳定性和安全性、延长电机使用寿命等作用。

The frequency converter

The frequency converter uses power module of high performance and adjustable microcomputer chip, which make the machines have high reliability and good adaptability to voltage fluctuation. The allowable voltage fluctuation scope is ±20%; with high output torque, it can be up to 150% at low speed; To meet different control needs at different places, this frequency converter has many kinds of control method, the maximum power is 450KW; To implement closed-loop control, it built-in a PID regulator; it can show different parameters, condition, symptom; with a nice operation communication interface and standard connector, it can easily be formed to centralized control system.

This frequency converter can be widely used in power, metallurgy, municipal construction and Petrochemical Technology fields. It does play a part in save energysaving energy, improving work condition, improving the stability and safety of the motor running, extending operating life and etc. save energy

GCK、GCL型低压抽出式开关柜

GCK、GCL型低压抽出式开关柜，用于三相交流50Hz，电压660V以下配电系统。广泛用于发电厂、变电站、港口和工矿企业、机场、体育场、高层楼宇等低压配电系统中作受电、馈电及动力控制之用。产品符合GB7251.1国家标准和IEC4391国际标准。

GCK、GCL low-voltage withdrawable switchgear

GCK、GCL low-voltage withdrawable switchgear is suitable for 660V and belows, 50Hz three-phase AC power distribution system. It can be widely used in power stations, substations, ports, mining enterprises, airports, stadiums, high rise buildings, and such low-voltage power distribution system, acting as receiving、feeding and controlling the power. The product is in line with GB7251.1 national standard, and international standard IEC4391 requirements



变频器
The frequency converter

GCK、GCL型低压抽出式开关柜
GCK、GCL low-voltage withdrawable switchgear

MNS型低压抽出式开关柜

MNS型低压抽出式开关柜是我公司为适应电力工业发展的需求,参考国外低压开关柜设计并加以改进开发的高级型低压抽屉式开关柜。该产品符合国家标准GB7251.1行业标准JB/T9661和国际标准IEC439-1规定。并通过了国家强制性的3C认证。

MNS型低压抽出式开关柜适应各种供电、配电的需要,能广泛应用于发电厂、变电站、工矿企业、大楼宾馆、高层建筑或地下设施等各种低压配电系统。

MNS low-voltage withdrawable switchgear

To meet the needs of development of power industrial, our company has developed a new type of low-voltage withdrawable switchgear. Despite of referencing to the design of foreign countries, it developed and improved on our own, the product is in line with national standard GB7251.1, industry-standard JB/T9661 and international standard IEC439-1, and has adopted the national compulsory 3C certificates.

MNS low-voltage withdrawable switchgear can accommodate to need of power supply and distribution, it can be widely used in power stations, substations, mining enterprises, hotels, high rise buildings or underground installation, and such low-voltage power distribution system.

XL-21型低压动力配电箱

XL-21型动力配电箱适用于三相交流额定电压380V, 作为动力控制及配电使用, 它具有外形美观、结构新颖、检修方便等优点。采用目前国内最新的电器元件、主电路短路时承载能力可达15kA。

XL-21 low-voltage power distribution panel

XL-21 low-voltage power distribution panel is suitable for 380V three-phase AC, can be used as power controlling and distributing, it has the characteristics of beautiful appearance, novel structure, convenient maintenance. When the main circuit was shorted, the carrying capacity can reach to 15kA, this is due to the usage of the latest domestic electrical components.



MNS型低压抽出式开关柜
MNS low-voltage withdrawable switchgear



XL-21型低压动力配电箱
XL-21 low-voltage power distribution panel

GCS型低压抽出式开关柜

根据电力主管部门, 广大电力用户及设计部门的要求, 为满足不断发展的电力市场对扩容、计算机接口、动力集中控制、方便安装维修、缩短事故处理时间等需要; 本着安全、经济、合理、可靠的原则设计的新型低压抽出式开关柜。具有分断能力高、动热稳定性好、电气方案灵活组合方便、系列性实用性能、结构新颖、防护等级高等特点。可以作为低压抽出式开关柜的换代产品使用。

产品符合IEC439-1《低压成套设备和控制设备》、GB7251.1《低压成套开关设备》、JB/T9661《低压抽出式成套开关设备》等标准。

GCS low-voltage withdrawable switchgear

According to the requirements of power department, the majority of electricity consumers and design department, GCS low-voltage withdrawable switchgear is a new type low-voltage complete switchgear with foreign advanced techniques, it meets the requirements of load ability expansion, computer interfacing, power-control centralization, easy assembly and maintenance, and it can reduce the times of incident handle. Act on the principles of security, economy, reasonable and reliability, our company has developed a new type of low-voltage withdrawable switchgear. With a high breaking capability, fine moving and thermal stability, flexible electric scheme and convenient combination, practical performance, novel structure, and high degree of protection, it can take place of low-voltage withdrawable switchgear.

The product meets the requirements of IEC439-1《Low-voltage complete equipment and controller》、GB7251.1《Low-voltage switch equipment》and JB/T9661《Low-voltage withdrawable switch equipment》.



GCS型低压抽出式开关柜
GCS low-voltage withdrawable switchgear

GGD型低压固定式开关柜

GGD型交流低压配电柜适用于发电厂、变电站、厂矿企业等电力用户作为交流50Hz, 额定工作电压380V, 额定工作电流至4000A的配电系统中, 作为动力、照明及配电设备的电能转换、分配与控制之用。

产品具有分断能力高; 动热稳定性好; 安全可靠; 经济合理; 实用性强等特点; 产品符合IEC439《低压成套开关设备和控制设备》, GB7251.1《低压成套开关设备和控制设备, 第一部分: 型式试验和部分型式试验成套设备》等标准。防护等级为IP30。

GGD low-voltage fixed switch cabinet

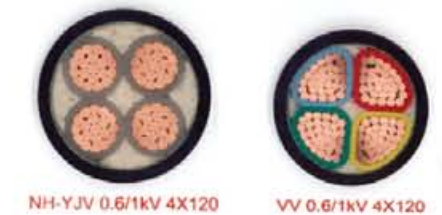
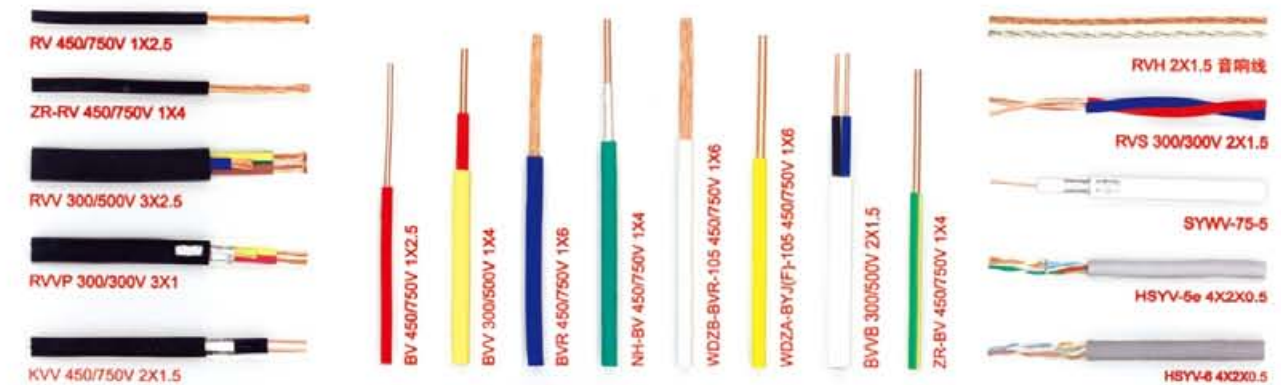
GGD low-voltage fixed switch cabinet is suitable for power stations, substations, mining enterprises. When the power distribution is 50Hz, 380V AC and the rated working current is 4000A, it can serve as power, lighting and power distribution equipment.

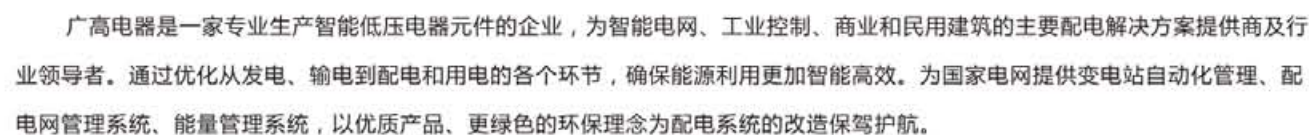
The product's characteristics: high breaking capability, fine moving and thermal stability; safety and reliability; economic and reasonable; strong practicability; it is in line with IEC439《Low-voltage complete switch equipment and controller》, GB7251.1《Low-voltage switchgear and controlgear assemblies--Part 1: Type-tested and partially type-tested assemblies》. The protection rating is IP30.



GGD型低压固定式开关柜
GGD low-voltage fixed switch cabinet

36KV及以下电力电缆产品 HV&LV power cable upto 36KV





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变电站高压设备和继电保护设备 Substation HV equipment and Relay protection equipment up to 750KV



Sf6 Circuit Breaker



GIS (Gas Insulated Substation)



Disconnect Switch



Current & Voltage Transformer



HV surge arrester



Digital microwave radio terminal



STORAGE BATTERIES



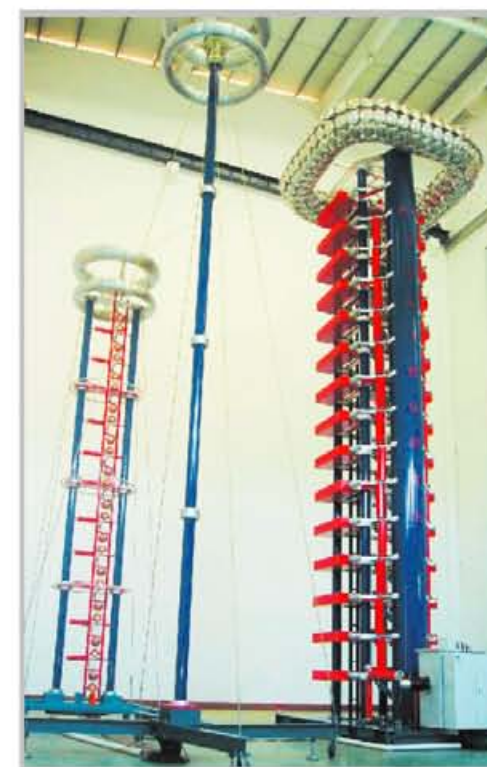
Breaker Failure Protection System/Bus Protection System
Transformer Protection System/LINE PROTECTION SYSTEM



先进的生产设备完善的检测设备 Advanced Production Equipment and Perfect Testing Equipment



德国GEORG公司全自动铁芯生产线
Full automatic rod core imported from GEORG of German



3000kV雷电冲击发生器
3000kV lightning impulse test equipment



大型立式绕线机
Foil type coil winding machine



气相干燥炉
Vacuum gating system imported from German



全自动箔式线圈绕线机
Foil automatic coil winding machine



德国技术全自动真空浇注灌
Full automatic numerical steam vacuum gating systems from German

运行工程实例 Operation Project Example



海南感城风电场110kV主变
Operating in Hainan wind power substation 110kV main transformer



湖南沙田电站110kV主变
Operating in Hunan substation 110kV main transformer



广州员村变电站110kV主变
Operating in Guangzhou substation 110kV main transformer



福建省南安市电力总公司
Operating in Fujian power corporation



东莞供电局新厅变电站110kV主变
Dongguan power supply bureau Xinting substation 110kV main transformer

运行工程实例 Operation Project Example



低压开关柜GCK
GCK low-voltage withdrawable switchgear



高压开关柜XGN
XGN high-voltage switch cabinet



广州华南碧桂园欧式变电站
Operating in Biguiyuan prefabricated substation



户外电缆分接箱
Outdoor cable branch box



广州BRT建设工程美式箱变
Operating in BRT construction project American-type box transformer substation