



POWER / DISTRIBUTION TRANSFORMER

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LIAOCHENG HUARUI ELECTRIC CO., LTD.

梦想远航

「没有梦想
何必远方」



奋斗不息
×
共赢未来

D R E A M V O Y A G E

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HUARUI BLOOM NEW WONDERFUL EVERY DAY

华瑞，每天绽放新精彩

聊城华瑞电气有限公司始建于1996年，坐落于山东省历史文化名城江北水城聊城。

现注册资金1.1亿元，占地260000平方米，建筑面积67000平方米，为“国家高新技术企业”。

公司主要产品有变压器、箱式变电站、高低压成套开关设备、输电线路铁塔、电力线路器材、新能源技术和装备等。公司具备工程“承装、承修、承试”四级资质，有资质承建110kV及以下电压等级的工程施工。秉承科技、创新的经营理念，公司已发展成集科研、设计、制造和安装一体化的专业化、综合性基地，可实现年产值12亿元。

公司已取得ISO9001质量管理体系、ISO14001环境管理体系，和OHSAS18001职业健康安全管理体系认证证书。18种低压电器产品获得国家低压电器强制CCC认证证书；37种高、低压成套电器设备，16种油浸式、干式和非晶合金变压器取得国家质量检测、检验中心型式试验报告；5种油浸式、非晶合金变压器取得中国质量认证中心节能产品认证证书；500kV及以下输电线路铁塔和电力线路器材取得国家颁发的生产许可证和安全生产证书；10种科技成果通过省级评审，鉴定结论达到国内领先水平。其中2种产品获得“聊城市科技进步三等奖”。

我们的客户遍及城市电网、发电厂、变电站、石油、化工、铁路和大型建筑企业等领域，产品远销美国、巴西、秘鲁、肯尼亚、埃塞俄比亚、印度、缅甸、越南等国。我们竭诚欢迎海内外各界朋友密切合作，共同发展。

Liaocheng Huarui Electric Co., Ltd. was established in 1996, located in Liaocheng city China which is famous for its history and culture.

Its registered capital is 110 million CNY, covers an area of 260,000 square meters, building area is 67,000 square meters. It was awarded as National High-Tech enterprise.

We are specializing in producing Power transformer, Box-type substation, High and low voltage switchgear, Transmission line tower, Power line equipment, New energy techniques and equipments etc. And it get Level 4 permit of Electric power construction, testing and repairing, with voltage level 110kV and below. With continuous technology progress and innovation, Huarui Electric has become a professional and synthetical base of scientific research, products design, production and construction. It can realize an annual output value of 1.2 billion yuan.

It has got certificate of ISO9001, ISO14001 and OHSAS18001. And 18 low voltage products get national certificate of CCC. Also our products get quality testing report from China Quality Certification Center (CQC).

Our customers include urban distribution network, power station, transformer substation, oil, chemical, railway and big construction companies. And products export to America, Brazil, Peru, Kenya, Ethiopia, India, Myanmar, Vietnam etc. We sincerely welcome all friends from domestic and overseas to come to cooperate and develop together.

华瑞电气始于1996年
SINCE 1996

FOCUS

ON QUALITY

专注品质



让更多的客户享受真正的节能安全用电

Let more customers enjoy the real energy-saving and safe use of electricity

QUALITY, DECIDE THE FUTURE

品质，决定未来

严格遵从公司三大原则，保证好质量，让华瑞电气走向全世界！

公司对员工经过反复培训，反复练习和示范，加强对产品和生产过程的了解，形成做出良品的正确习惯，做到“质量三不原则”，即“不接受不合格品”“不制造不合格品”“不流出不合格品”。

Strictly abide by the three principles of the company, Ensure quality, Let Huarui electric go to the world!

The company has undergone repeated training, repeated practice and demonstration for employees, enhance knowledge of products and production processes, form the correct habit of making good products, achieve the "three no principles of quality", that is, "do not accept nonconforming products", "do not manufacture nonconforming products" and "do not flow out nonconforming products"



完善的质检体系 / PERFECT QUALITY INSPECTION SYSTEM



STRICT PRODUCT TESTING 严格的产品检测

公司配有LXZC变压器综合试验台、LXBT有源变压器容量特性测试仪、LXBB-11全自动变比测试仪等检验检测设备的变压器检测中心一座，确保每一个产品试验合格，并正常投入运行。

The company has a transformer testing center equipped with LXZC transformer comprehensive test bench, LXBT active transformer capacity characteristic tester, LXBB-11 automatic transformation ratio tester and other inspection and testing equipment, ensure that each product test is qualified and put into operation normally.

实验室现有专职研发人员33人，其中高级工程师4人，工程师14人，其他专业人员15人，外聘兼职教授/研究员5人。

The laboratory currently has 33 full-time R&D personnel, including 4 senior engineers, 14 engineers, 15 other professionals, and 5 external adjunct professors/researchers.



资质证书 / QUALIFICATIONS



ISO9001 质量管理体系认证

ISO9001 quality management system certification



公司先后通过ISO9001：2008质量管理体系认证、ISO14001：2004环境管理体系认证、OHSAS18001：2001职业健康安全管理体系等认证

The company has passed ISO9001:2008 quality management system certification, ISO14001:2004 environmental management system certification, OHSAS18001:2001 occupational health and safety management system certification



90+
NATIONAL STANDARD TESTING
90余项产品通过国家标准检测

100+
UTILITY MODEL PATENT
先后获得实用新型专利/发明专利100余项



主导产品 / MAIN PRODUCTS

10kV S13/20/22 能效变压器

10KV S13/20/22 ENERGY EFFICIENCY TRANSFORMER

— 产品概述

- 1 / 根据最新中国国家标准，S13型变压器空载损耗、负载损耗符合GB 20052-2020表1中3级能效的规定。
- 2 / S20型变压器空载损耗、负载损耗符合GB20052-2020表1中2级能效的规定。
- 3 / S22型变压器空载损耗、负载损耗符合GB20052-2020表1中1级能效的规定。

— PRODUCT DESCRIPTION

1 / According to the latest Chinese national standard, the no-load loss and load loss of the S13 transformer conform to the requirements of level 3 energy efficiency in Table 1 of GB 20052-2020.

2 / The no-load loss and load loss of the S20 transformer conform to the requirements of level 2 energy efficiency in Table 1 of GB 20052-2020.

3 / The no-load loss and load loss of the S22 transformer conform to the requirements of level 1 energy efficiency in Table 1 of GB 20052-2020.



● 油浸式变压器

10kV	S13/20/22	能效变压器
10kV	SH15/21/25	非晶合金能效变压器
35/10kV	S18/20/22	能效变压器
35/0.4kV	S11/13	油浸式变压器
10kV	D13	单相变压器
10kV	S11	油浸式变压器
10kV	S13/20/22-MRL	立体卷铁芯变压器

● 干式变压器

10kV	SCB12/14/18	能效变压器
10kV	SCBH15/17/19	非晶合金能效变压器
10kV	SCB10/11/13	干式变压器
35/0.4kV	SCB10/11/12/13	干式变压器

● 特种变压器

有载调压/调容变压器	高过载变压器
整流变压器	矿用变压器
光伏/风电变压器	试验变压器

● OIL IMMERSED TRANSFORMER

10kV	S13/20/22	Energy efficiency transformer
10kV	SH15/21/25	Amorphous alloy energy efficiency transformer
35/10kV	S18/20/22	Energy efficiency transformer
35/0.4kV	S11/13	Oil immersed transformer
10kV	D13	Single phase transformer
10kV	S11	Oil immersed transformer
10kV	S13/20/22-MRL	Three-dimensional wound core transformer

● DRY TYPE TRANSFORMER

10kV	SCB12/14/18	Energy efficiency transformer
10kV	SCBH15/17/19	Amorphous alloy energy efficiency transformer
10kV	SCB10/11/13	Dry type transformer
35/0.4kV	SCB10/11/12/13	Dry type transformer

● SPECIAL TRANSFORMER

On load voltage regulating / capacity regulating	High overload transformer
Rectifier transformer	Mining transformer
Photovoltaic / wind power transformer	Test transformer

额定容量 (kVA) Rated capacity	高压 (kV) H.V	低压 (kV) L.V	连接组标号 Connection symbol	空载损耗(W) No-load loss			负载损耗(W) On-load loss			短路阻抗 (%) Short circuit impedance
				13	20	22	13	20	22	
30	6.0 6.3 10 10.5 11	0.4	Dyn11/Yyn0	80	70	65	630/600	505/480	455/430	4.0
50				100	90	80	910/870	730/695	655/625	
63				110	100	90	1090/1040	870/830	785/745	
80				130	115	105	1310/1250	1050/1000	945/900	
100				150	135	120	1580/1500	1265/1200	1140/1080	
125				170	150	135	1890/1800	1510/1440	1360/1295	
160				200	180	160	2310/2200	1850/1760	1665/1585	
200				240	215	190	2730/2600	2185/2080	1970/1870	
250				290	260	230	3200/3050	2560/2440	2300/2195	
315				340	305	270	3830/3650	3065/2920	2760/2630	
400				410	370	330	4520/4300	3615/3440	3250/3095	
500				480	430	385	5410/5150	4330/4120	3900/3710	
630				570	510	460	6200	4960	4460	
800				700	630	560	7500	6000	5400	
1000				830	745	665	10300	8240	7415	
1250				970	870	780	12000	9600	8640	4.5
1600				1170	1050	940	14500	11600	10440	
2000				1360	1225	1085	18300	14640	13180	
2500				1600	1440	1280	21200	14840	13360	

35/0.4kV S11/13 油浸式变压器

35/0.4KV S11/13 OIL IMMERSED TRANSFORMER

— 产品概述

- 1 / 35kV三相油浸式变压器用于将35kV电网电源直接降低为400V配电电源或10KV输电电源为用户供电。
- 2 / 选用优质硅钢片，同时大幅降低磁通密度，减小运行中硅钢片磁致伸缩量，有效降低噪音。
- 3 / 采用高压小电流代替低压大电流输电，减少线路损耗，降低线路运行成本。

— PRODUCT DESCRIPTION

1 / The 35kV three-phase oil-immersed transformer is used to directly reduce the 35kV grid power supply to a 400V distribution power supply or a 10KV transmission power supply to supply power for users.

1 / High-quality silicon steel sheets are selected, and at the same time, the magnetic flux density is greatly reduced, the magnetostriiction of silicon steel sheets during operation is reduced, and the noise is effectively reduced.

2 / Use high-voltage small current instead of low-voltage high-current transmission to reduce line loss and line operating costs.



10kV D13 单相变压器

10KV D13 SINGLE PHASE TRANSFORMER

— 产品概述

- 1 / 单相配电变压器体积小，重进轻，可以最大限度深入负荷中心，缩短低压网络半径，降低损耗。
- 2 / 当三相配电变压器的负荷过重时，根据负荷特点，选择适当的支线安装单相配电变压器，可转移负荷，解决扩容问题。

— PRODUCT DESCRIPTION

1 / Single-phase distribution transformers are small in size, heavy in weight and light in weight, and can go deep into the load center to the greatest extent, shorten the radius of the low-voltage network and reduce losses.

2 / When the load of the three-phase distribution transformer is too heavy, according to the characteristics of the load, select the appropriate branch line to install the single-phase distribution transformer, which can transfer the load and solve the problem of capacity expansion.



额定容量 (kVA) Rated capacity	高压 (kV) H.V	低压 (kV) L.V	连接组标号 Connection symbol	空载损耗(kW) No-load loss		负载损耗(kW) On-load loss		短路阻抗 (%) Short circuit impedance
				11	13	11	13	
50	35 38.5	0.4	Dyn11/Yyn0	0.16	0.112	1.20/1.14	1.20/1.14	6.5
100				0.23	0.161	2.01/1.91	2.01/1.91	
125				0.27	0.189	2.37/2.26	2.37/2.26	
160				0.28	0.196	2.82/2.68	2.82/2.68	
200				0.34	0.238	3.32/3.16	3.32/3.16	
250				0.40	0.280	3.95/3.76	3.95/3.76	
315				0.48	0.336	4.75/4.53	4.75/4.53	
400				0.58	0.406	5.74/5.47	5.74/5.47	
500				0.68	0.476	6.91/6.58	6.91/6.58	
630				0.83	0.581	7.86	7.86	
800				0.98	0.686	9.40	9.40	
1000				1.15	0.805	11.50	11.50	
1250				1.40	0.980	13.90	13.90	
1600				1.69	1.183	16.60	16.60	
2000				1.99	1.393	19.70	19.70	
2500				2.36	1.652	23.20	23.20	

额定容量 (kVA) Rated capacity	高压 (kV) H.V	低压 (kV) L.V	连接组标号 Connection symbol	空载损耗(W) No-load loss	负载损耗(W) On-load loss	短路阻抗 (%) Short circuit impedance
5	6.0 6.3 10 10.5 11	2x (0.22-0.24) 0.22-0.24	II0 II6	24	130	3.5
10				36	235	
16				44	330	
20				52	385	
30				64	560	
40				80	700	
50				96	855	
63				116	1020	
80				128	1260	
100				152	1485	
125				184	1755	
160				232	2130	

10kV S11 油浸式变压器

10KV S11 OIL IMMERSSED TRANSFORMER

— 产品概述

- 1 / S11-M系列全密封油浸式电力变压器具有低损耗、低噪声、高效率的优点。
- 2 / 与普通油浸式变压器相比，取消了储油柜，油体积的变化由波纹油箱的波纹片的弹性来自动调节补偿。
- 3 / 变压器为全密封结构，免维护，延长使用寿命。

— PRODUCT DESCRIPTION

- 1 / S11-M series of fully sealed oil-immersed power transformers have the advantages of low loss, low noise and high efficiency.
- 2 / Compared with ordinary oil-immersed transformers, the oil conservator is cancelled, and the change of oil volume is automatically adjusted and compensated by the elasticity of the corrugated sheet of the corrugated oil tank.
- 3 / The transformer is a fully sealed structure, maintenance-free and prolongs its service life.



10kV S13/20/22-MRL 立体卷铁心能效变压器

10KV S13/20/22-MRL THREE DIMENSIONAL WOUND CORE ENERGY EFFICIENCY TRANSFORMER

— 产品概述

- 1 / 三相三柱立体对称结构有最平衡的三相磁路，其磁路完全对称，长度最短且相等，三相空载电流完全平衡，不产生三次谐波，保证了供电波形的质量。
- 2 / 结构紧凑，占地面积小，节省安装空间，安装维护方便。

— PRODUCT DESCRIPTION

- 1 / The three-phase three-column three-dimensional symmetrical structure has the most balanced three-phase magnetic circuit, the magnetic circuit is completely symmetrical, the length is the shortest and equal, the three-phase no-load current is completely balanced, and no third harmonic is generated, which ensures the quality of the power supply waveform.
- 2 / Compact structure, small footprint, saving installation space, and convenient installation and maintenance.



额定容量 (kVA) Rated capacity	高压 (kV) H.V	低压 (kV) L.V	连接组标号 Connection symbol	空载损耗(kW) No-load loss	负载损耗(kW) On-load loss	短路阻抗 (%) Short circuit impedance
30	6.0	0.4	Dyn11/Yyn0	0.10	0.63/0.60	4.0
50				0.13	0.91/0.87	
63				0.15	1.09/1.04	
80				0.18	1.31/1.25	
100				0.20	1.58/1.50	
125				0.24	1.89/1.80	
160				0.28	2.31/2.20	
200				0.34	2.73/2.60	
250				0.40	3.20/3.05	
315				0.48	3.83/3.65	
400	10	0.4	Dyn11/Yyn0	0.57	4.52/4.30	4.5
500	0.68			5.41/5.15		
630	0.81			6.2		
800	0.98			7.5		
1000	1.15			10.3		
1250	1.36			12.0		
1600	1.64			14.5		
2000	1.94			18.3		
2500	2.29			21.2		

额定容量 (kVA) Rated capacity	高压 (kV) H.V	低压 (kV) L.V	连接组标号 Connection symbol	空载损耗(W) No-load loss			负载损耗(W) On-load loss			短路阻抗 (%) Short circuit impedance
				13	20	22	13	20	22	
30	6.0	0.4	Dyn11/Yyn0	80	70	65	630/600	505/480	455/430	4.0
50				100	90	80	910/870	730/695	655/625	
63				110	100	90	1090/1040	870/830	785/745	
80				130	115	105	1310/1250	1050/1000	945/900	
100				150	135	120	1580/1500	1265/1200	1140/1080	
125				170	150	135	1890/1800	1510/1440	1360/1295	
160				200	180	160	2310/2200	1850/1760	1665/1585	
200				240	215	190	2730/2600	2185/2080	1970/1870	
250				290	260	230	3200/3050	2560/2440	2300/2195	
315				340	305	270	3830/3650	3065/2920	2760/2630	
400	10.5	0.4	Dyn11/Yyn0	410	370	330	4520/4300	3615/3440	3250/3095	4.5
500	11			480	430	385	5410/5150	4330/4120	3900/3710	
630				570	510	460	6200	4960	4460	
800				700	630	560	7500	6000	5400	
1000				830	745	665	10300	8240	7415	
1250				970	870	780	12000	9600	8640	
1600				1170	1050	940	14500	11600	10440	
2000				1360	1225	1085	18300	14640	13180	
2500				1600	1440	1280	21200	14840	13360	

10kV SCB12/14/18 能效变压器

10KV SCB12/14/18 ENERGY EFFICIENCY TRANSFORMER

— 产品概述

- 1 / 根据最新中国国家标准，SCB12型干式变压器空载损耗、负载损耗符合GB20052-2020表2中3级能效的规定
- 2 / SCB14型干式变压器空载损耗、负载损耗符合GB20052-2020表2中2级能效的规定；
- 3 / SCB18型干式变压器空载损耗、负载损耗符合GB20052-2020表2中1级能效的规定。

— PRODUCT DESCRIPTION

1 / According to the latest Chinese national standard, the no-load loss and load loss of the SCB12 dry-type transformer conform to the requirements of level 3 energy efficiency in Table 2 of GB 20052-2020.

2 / The no-load loss and load loss of the SCB14 dry-type transformer conform to the requirements of level 2 energy efficiency in Table 2 of GB 20052-2020.

3 / The no-load loss and load loss of the SCB18 dry-type transformer conform to the requirements of level 1 energy efficiency in Table 2 of GB 20052-2020.



10kV SCBH15/17/19 非晶合金能效变压器

10KV SCBH15/17/19 AMORPHOUS ALLOY ENERGY EFFICIENCY TRANSFORMER

— 产品概述

- 1 / 根据最新中国国家标准，SCBH15型非晶合金干式变压器空载损耗、负载损耗符合GB20052-2020表2中3级能效的规定；
- 2 / SCBH17型非晶合金干式变压器空载损耗、负载损耗符合GB20052-2020表2中2级能效的规定；
- 3 / SCBH19型非晶合金干式变压器空载损耗、负载损耗符合GB20052-2020表2中1级能效的规定。

— PRODUCT DESCRIPTION

1 / According to the latest Chinese national standard, the no-load loss and load loss of the SCBH15 amorphous alloy dry-type transformer conform to the requirements of level 3 energy efficiency in Table 2 of GB 20052-2020.

2 / The no-load loss and load loss of the SCBH17 amorphous alloy dry-type transformer conform to the requirements of level 2 energy efficiency in Table 2 of GB 20052-2020.

3 / The no-load loss and load loss of the SCBH19 amorphous alloy dry-type transformer conform to the requirements of level 1 energy efficiency in Table 2 of GB 20052-2020.



额定容量 (kVA) Rated capacity	高压 (kV) H.V	低压 (kV) L.V	连接组标号 Connection symbol	空载损耗(kW) No-load loss			负载损耗(kW) On-load loss			短路阻抗 (%) Short circuit impedance
				12	14	18	12	14	18	
30	6 6.3 10 10.5 11	0.4	Dyn11/Yyn0	0.150	0.130	0.105	0.710	0.640	0.640	4.0
50				0.215	0.185	0.155	1.000	0.900	0.900	
80				0.295	0.250	0.210	1.380	1.240	1.240	
100				0.320	0.270	0.230	1.570	1.415	1.415	
125				0.375	0.320	0.270	1.850	1.665	1.665	
160				0.430	0.365	0.310	2.130	1.915	1.915	
200				0.495	0.420	0.360	2.530	2.275	2.275	
250				0.575	0.490	0.415	2.760	2.485	2.485	
315				0.705	0.600	0.510	3.470	3.125	3.125	6.0
400				0.785	0.665	0.570	3.990	3.590	3.590	
500				0.930	0.790	0.670	4.880	4.390	4.390	
630				1.070	0.910	0.775	5.880	5.290	5.290	
630				1.040	0.885	0.750	5.960	5.365	5.365	
800				1.215	1.035	0.875	6.960	6.265	6.265	
1000				1.415	1.205	1.020	8.130	7.315	7.315	
1250				1.670	1.420	1.205	9.690	8.720	8.720	
1600				1.960	1.665	1.415	11.730	10.555	10.555	
2000				2.440	2.075	1.760	14.450	13.005	13.005	
2500				2.880	2.450	2.080	17.170	15.445	15.445	

额定容量 (kVA) Rated capacity	高压 (kV) H.V	低压 (kV) L.V	连接组标号 Connection symbol	空载损耗(kW) No-load loss			负载损耗(kW) On-load loss			短路阻抗 (%) Short circuit impedance
				15	17	19	15	17	19	
30	6 6.3 10 10.5 11	0.4	Dyn11/Yyn0	0.07	0.060	0.050	0.710	0.640	0.640	4.0
50				0.09	0.075	0.060	1.000	0.900	0.900	
80				0.12	0.100	0.085	1.380	1.240	1.240	
100				0.13	0.110	0.090	1.570	1.415	1.415	
125				0.15	0.130	0.105	1.850	1.665	1.665	
160				0.17	0.145	0.120	2.130	1.915	1.915	
200				0.20	0.170	0.140	2.530	2.275	2.275	
250				0.23	0.195	0.160	2.760	2.485	2.485	6.0
315				0.28	0.235	0.195	3.470	3.125	3.125	
400				0.31	0.265	0.215	3.990	3.590	3.590	
500				0.36	0.305	0.250	4.880	4.390	4.390	
630				0.42	0.360	0.295	5.880	5.290	5.290	
630				0.41	0.350	0.290	5.960	5.365	5.365	
800				0.48	0.410	0.335	6.960	6.265	6.265	
1000				0.55	0.470	0.385	8.130	7.315	7.315	
1250				0.65	0.550	0.455	9.690	8.720	8.720	
1600				0.76	0.645	0.530	11.730	10.555	10.555	
2000				1.00	0.850	0.700	14.450	13.005	13.005	
2500				1.20	1.020	0.840	17.170	15.445	15.445	

10kV SCB10/11/13 干式变压器

10KV SCB10/11/13 DRY TYPE TRANSFORMER

— 产品概述

- 1 / 采用国内先进技术，机械强度高，抗短路能力强，局部放电小，热稳定性好，可靠性高，使用寿命长；
- 2 / 安全，防火，无污染，可直接运行于负荷中心；
- 3 / 低损耗，低噪音，节能效果明显，免维护；
- 4 / 体积小，重量轻，占地空间少，安装费用低。

— PRODUCT DESCRIPTION

1 / Using domestic advanced technology, high mechanical strength, strong short-circuit resistance, small partial discharge, good thermal stability, high reliability and long service life.

2 / Safe, fireproof, non-polluting, can run directly in load center.

3 / Low loss, low noise, obvious energy saving effect, no maintenance.

4 / Small size, light weight, less floor space and low installation cost.



35/0.4kV SCB10/11/12/13 干式变压器

35/0.4KV SCB10/11/12/13 DRY TYPE TRANSFORMER

— 产品概述

- 1 / 35kV干式变压器用于将35kV电网电源直接降低为400V配电电源或10KV输电电源为用户供电；
- 2 / 选用优质硅钢片，同时大幅降低磁通密度，减小运行中硅钢片磁致伸缩量，有效降低噪音；
- 3 / 采用高压小电流代替低压大电流输电，减少线路损耗，降低线路运行成本。

— PRODUCT DESCRIPTION

1 / The 35kV dry type transformer is used to directly reduce the 35kV grid power supply to a 400V distribution power supply or a 10KV transmission power supply to supply power for users.

1 / High-quality silicon steel sheets are selected, and at the same time, the magnetic flux density is greatly reduced, the magnetostriction of silicon steel sheets during operation is reduced, and the noise is effectively reduced.

2 / Use high-voltage small current instead of low-voltage high-current transmission to reduce line loss and line operating costs.



额定容量 (kVA) Rated capacity	高压 (kV) H.V	低压 (kV) L.V	连接组标号 Connection symbol	空载损耗(kW) No-load loss			负载损耗(kW) On-load loss			短路阻抗 (%) Short circuit impedance
				10	11	13	10	11	13	
30	6 6.3 6.6 10 10.5 11	0.4	Dyn11/Yyn0	0.19	0.17	0.135	0.71	0.71	0.64	4.0
50				0.27	0.24	0.195	1.00	1.00	0.90	
80				0.37	0.33	0.265	1.38	1.38	1.24	
100				0.40	0.36	0.290	1.57	1.57	1.41	
125				0.47	0.42	0.340	1.85	1.85	1.66	
160				0.54	0.48	0.385	2.13	2.13	1.91	
200				0.62	0.55	0.445	2.53	2.53	2.27	
250				0.72	0.64	0.515	2.76	2.76	2.48	
315				0.88	0.79	0.635	3.47	3.47	3.12	6.0
400				0.98	0.88	0.705	3.99	3.99	3.59	
500				1.16	1.04	0.835	4.88	4.88	4.39	
630				1.34	1.20	0.965	5.88	5.88	5.29	
630				1.30	1.17	0.935	5.96	5.96	5.36	
800				1.52	1.36	1.09	6.96	6.96	6.26	
1000				1.77	1.59	1.27	8.13	8.13	7.31	
1250				2.09	1.88	1.50	9.690	9.690	8.72	
1600				2.45	2.20	1.76	11.70	11.70	10.5	
2000				3.05	2.74	2.19	14.40	14.40	13.0	
2500				3.60	3.24	2.59	17.10	17.10	15.4	

额定容量 (kVA) Rated capacity	高压 (kV) H.V	低压 (kV) L.V	连接组标号 Connection symbol	空载损耗(KW) No-load loss				负载损耗(KW) On-load loss				短路阻抗 (%) Short circuit impedance
				10	11	12	13	10	11	12	13	
50	35 36 37 38.5	0.4	Dyn11/Yyn0	0.45	0.405	0.36	0.315	1.42	1.42	1.42	1.278	6.0
100				0.63	0.567	0.504	0.441	2.09	2.09	2.09	1.881	
160				0.79	0.711	0.632	0.553	2.81	2.81	2.81	2.529	
200				0.88	0.792	0.704	0.616	3.32	3.32	3.32	2.988	
250				0.99	0.891	0.792	0.693	3.8	3.8	3.8	3.42	
315				1.17	1.053	0.936	0.819	4.51	4.51	4.51	4.059	
400				1.37	1.233	1.096	0.959	5.41	5.41	5.41	4.869	
500				1.62	1.458	1.296	1.134	6.65	6.65	6.65	5.985	
630				1.86	1.674	1.488	1.302	7.69	7.69	7.69	6.921	
800				2.16	1.944	1.728	1.512	9.12	9.12	9.12	8.208	
1000				2.43	2.187	1.944	1.701	10.4	10.4	10.4	9.36	
1250				2.83	2.547	2.264	1.981	12.7	12.7	12.7	11.43	
1600				3.24	2.916	2.592	2.268	15.4	15.4	15.4	13.86	
2000				3.82	3.438	3.056	2.674	18.2	18.2	18.2	16.38	
2500				4.45	4.005	3.56	3.115	21.8	21.8	21.8	19.62	

特种变压器

SPECIAL TRANSFORMER



有载调压/调容变压器
On load voltage regulation / capacity regulation transformer



高过载变压器
High overload transformer



整流变压器
Rectifier transformer



矿用变压器
Mining transformer



光伏/风电组合变压器
Photovoltaic / wind power combined transformer



试验变压器
Test transformer

箱式变电站

BOX TYPE SUBSTATION



欧式/美式箱变
European / American box type transformer



神华箱变
Shenhua box type substation

PROVIDE
**ONE-STOP
SOLUTION**

提供一站式解决方案

电力变压器、高压柜、低压开关设备，包括箱变金属外壳等，都是我公司自主设计生产制造，并在工厂内部完成所有部件的组装，做到了设备的性价比的最大化，把真实惠、高品质带给客户。

The power transformers, high-voltage cabinets, low-voltage switchgear, including box-to-metal casings, etc., are all designed and manufactured by our company, and all components are assembled in the factory, which maximizes the cost performance of the equipment and brings affordable quality to the client.

主导产品 / MAIN PRODUCTS

以精立业，满足用户需要。

KYN61-40.5 高压成套开关柜

HIGH VOLTAGE COMPLETE SWITCH CABINET KYN61-40.5

— 产品概述

该开关设备应用于三相交流40.5kV、50/60Hz电力系统，接受和分配电能，并对电路实时监测、控制和保护。

本开关设备执行国标GB3906、国网DL404和国际IEC60298标准

柜内按功能分为四个单元：断路器室、电器仪表室、母线室和电缆室。各室具有独立的压力释放通道和可靠接地，具有完善的“五防”功能。

— PRODUCT DESCRIPTION

The switchgear is applied to three-phase AC 40.5kV, 50 / 60Hz power system, receives and distributes electric energy, and monitors, controls and protects the circuit in real time.

The switchgear complies with national standard GB3906, national grid dl404 and international iec60298 standards.

The cabinet is divided into four units according to function: circuit breaker room, electrical instrument room, bus room and cable room. Each chamber has independent pressure release channel and reliable grounding, and has perfect "five prevention" function.



● 12-40.5kV高压电气成套设备

KYN61-40.5 铠装移开式交流金属封闭开关设备
KYN28A-12 铠装移开式交流金属封闭开关设备
HXGN-12 箱型固定式金属环网开关设备
DFW-12 高压电缆分支箱

● 12-40.5KV HIGH VOLTAGE COMPLETE EQUIPMENT

KYN61-40.5 Armored movable AC metal enclosed switchgear
KYN28A-12 Armored movable AC metal enclosed switchgear
HXGN-12 Box type fixed metal ring network switchgear
DFW-12 High voltage cable branch box

● 0.4kV低压电气成套设备

MNS 抽出式低压成套开关设备
GCK(GCS) 抽出式低压成套开关设备
GGD 交流低压配电柜
JP 配电柜
XL 动力配电箱
GGJ 低压无功补偿装置
XW 检修控制箱
DFW(F) 低压电缆分支箱
DYX 配电箱 (配电板)
FDX(PZ) 电表箱 (配电板)

● 0.4KV LOW-VOLTAGE COMPLETE EQUIPMENT

MNS Withdrawable low voltage switchgear
GCK (GCS) Withdrawable low voltage switchgear
GGD AC low voltage distribution cabinet
JP Distribution cabinetXL power distribution box
XL Power distribution box
GGJ Low voltage no power compensation device
XW Maintenance control box
DFW (F) Low voltage cable branch box
DYX Distribution box (distribution board)
FDX (PZ) Meter box (distribution board)

参数名称/Parameter name	单位/Unit	参数指标/Parameter index
额定电压 / Rated voltage	kV	35
最高工作电压 / Maximum working voltage	kV	40.5
额定电流 / Rated current	A	630 1250 1600 2000
绝缘水平 / Insulation level	相间、相对地 / Alternate relative 端口间 / Between ports 相间、相对地 / Alternate relative 断口间 / Fracture surface	95
		115
		185
		215
工频耐受电压 / 1min	kA	20 25 31.5
雷电冲击耐受电压 / LIWV		50 63 80
额定短路开断电流 (4s) / Rated short-circuit breaking current (4S)		20 25 31.5
额定短路关合电流 / Rated short-circuit making current		50 63 80
额定短时耐受电流 / KA Rms	V	50 63 80
额定峰值耐受电流 / Rated peak withstand current		50 63 80
控制回路额定电压 / Rated voltage of control circuit	IP 4X	DC110 220; AC110 220
外壳 / Shell		IP 2X
防护等级 / IP code	隔室间 (柜门打开时) / Compartment (when the cabinet door is open)	

KYN28A-12 高压成套开关柜

KYN28A-12 HIGH VOLTAGE COMPLETE SWITCH CABINET



— 产品概述

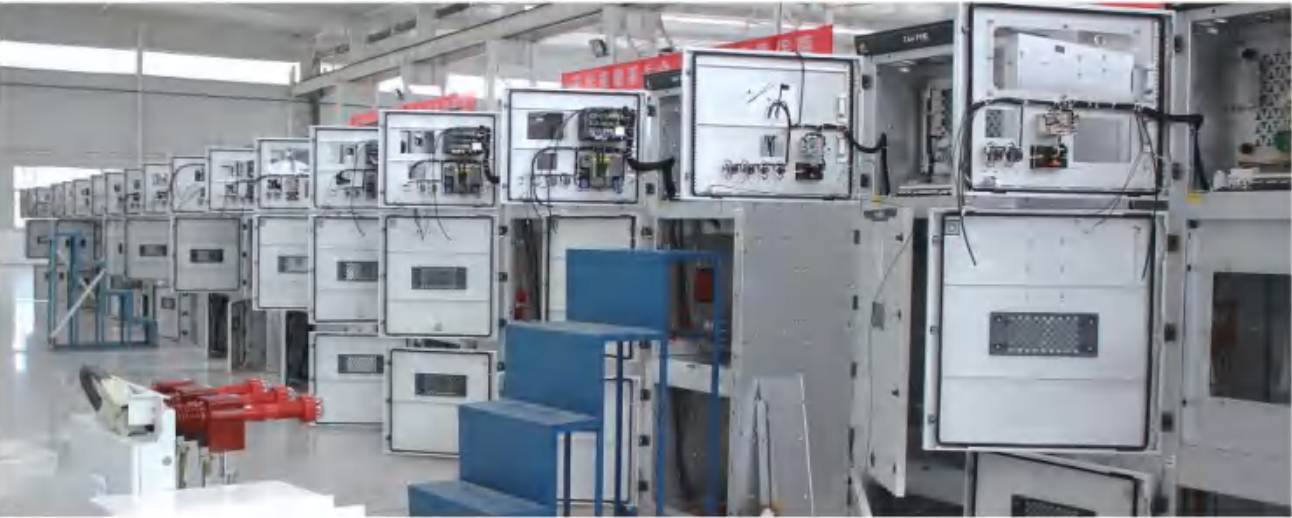
该开关设备，系3.6～12KV三相交流50HZ的户内成套配电装置。主要用于发电厂送电、电业系统和工矿企业变电所受电、配电、还可以用控制频繁起动的高压电动机等。

本开关柜能满足GB3906、DL404、IEC60298等标准要求，并具有防止误操作断路器、防止带负荷推拉手车、防止带电合接地开关、防止接地开关在接地位置送电和防止误入带电间隔等“五防”功能。

— PRODUCT DESCRIPTION

The switching device, a 3.6 ~ 12kV three-phase communication 50Hz indoor set distribution device. Mainly used in power generation, electricity system, and industrial and mining enterprises, power distribution, high voltage motor, which can also be used to control frequently.

This switchgear can meet the standard requirements of GB3906, DL404, IEC60298, and have to prevent misinterpret circuit breakers to prevent push-pull handwritels, prevent the charged joints from switching, preventing grounding switching and preventing errors in the grounding position Waiting for the "five defense" function.



参数名称/Parameter name		单位/Unit	参数指标/Parameter index	
额定电压 / Rated voltage		kV	10	
最高工作电压 / Maximum working voltage		kV	11.5	
额定电流 / Rated current		A	1250 2000 2500 3150	
绝缘水平 /Insulation level	工频耐受电压 / 1min	kV	相间、相对地 / Alternate relative	42
	端口间 / Between ports		48	
	相间、相对地 / Alternate relative		75	
	雷电冲击耐受电压 / LIWV		85	
	断口间 / Fracture surface			
额定短路开断电流（4s） / Rated short-circuit breaking current (4S)			25 31.5 40	
额定短路关合电流 / Rated short-circuit making current		kA	63 80 100	
额定短时耐受电流 / KA Rms			25 31.5 40	
额定峰值耐受电流 / Rated peak withstand current			60 80 100	
控制回路额定电压 / Rated voltage of control circuit		V	DC110 220; AC110 220	
防护等级 / IP code	外壳 / Shell		IP 4X	
	隔室间（柜门打开时） / Compartment (when the cabinet door is open)		IP 2X	

MNS 低压成套开关设备

MNS LOW VOLTAGE COMPLETE SWITCH EQUIPMENT



— 产品概述

MNS型低压抽出式开关柜是一种用标准模件由工厂组装的组合式低压开关柜。

产品技术标准符合IEC439《低压成套开关设备和控制设备》：GB7251《低压成套开关设备和控制设备》等标准要求，适用于发电厂、变电站、石油化工、冶金轧钢、轻工纺织等厂矿企业和住宅小区高层建筑等场所，作为交流50～60Hz,额定工作电压交流660V及以下的电力系统的配电设备的电能转换、分配及控制之用。

— PRODUCT DESCRIPTION

MNS low voltage extraction switchgear is a combined low-voltage switchgear for assembled by a standard module.

Product technical standards comply with IEC439 "low-voltage kit switch equipment and control equipment": GB7251 "Low-voltage complete set of switch equipment and control equipment" and other standard requirements, suitable for power plant, substation, petrochemical, metallurgical steel, light industry textile, etc. Cell high-rise buildings, etc.



参数名称/Parameter name		单位/Unit	参数指标/Parameter index
额定工作电压 / Rated working voltage		V	380 660
最高绝缘电压 / Maximum insulation voltage		V	660
额定工作电流 / Rated working current	水平母线 / Horizontal busbar	A	630-5000
	垂直母线 / Vertical busbar		最大1000 / Max
	主母线额定短时耐受电流有效值 / Effective value of rated short-time withstand current of main bus	kA/1s	50-100
	主母线额定短时峰值电流 / Rated short-time peak current of main bus	kA	250 (有效值) / Effective value
垂直母线短时峰值电流 / Short time peak current of vertical bus	标准型 / Standard type	kA	90 (最大值) / Maximum
	加强型 / Reinforced type		130 (最大值) / Maximum
外壳防护等级 / Enclosure protection class			IP130 IP40
外形尺寸 (宽x高x深) / Overall dimension (W x H x D)		mm	(600、800、1000)x2200x(600、800、1000)

GCK(GCS) 低压成套开关柜

GCK(GCS) LOW VOLTAGE SWITCHGEAR



— 产品概述

GCK抽出式低压成套开关设备应用于三相交流额定频率50/60HZ、最高工作电压660V,最大工作电流3150A的配电系统。

作为动力配电，电动机控制及照明等专用设备，接受和分配电能，并对电路实时监测、控制和保护。

本开关设备执行国标GB751和国际IEC439标准等。

— PRODUCT DESCRIPTION

GCK (GCS) withdrawable low-voltage switchgear is used in the distribution system with three-phase AC rated frequency of 50 / 60Hz, maximum working voltage of 660V and maximum working current of 3150A.

As special equipment for power distribution, motor control and lighting, it receives and distributes electric energy, and monitors, controls and protects the circuit in real time.

The switchgear complies with the national standard gb751 and international iec439 standards.



参数名称/Parameter name		参数指标/Parameter index
额定工作频率 (Hz) / Rated operating frequency		50
额定工作电压 (V) / Rated working voltage		380 (660)
额定绝缘电压 (V) / Rated insulation voltage		660
额定工作电流 (A) / Rated working current	水平母线 / Horizontal bus	630~3150
	垂直母线 / Vertical bus	800
额定短时耐受电流 (A) / Rated short-time withstand current	水平母线 / Horizontal bus	80kA/1s (Effective value)
	垂直母线 / Vertical bus	50kA/1s (Effective value)
额定峰值耐受电流 (A) / Rated peak withstand current	水平母线 / Horizontal bus	176kA
	垂直母线 / Vertical bus	110kA
主电路接插件 (A) / Main circuit connector		200 400 630
辅助电路接插件 (A) / Auxiliary circuit connector		10
工频耐压1秒 (V) / Power frequency withstand voltage for 1s		1890
控制电机最大容量 (kW) / Maximum capacity of control motor		155
防护等级 / Protective class		IP40
操作方式 / Operation mode		就地、远方、自动 / Local, remote and automatic

其它高低压成套设备

OTHER HIGH AND LOW VOLTAGE COMPLETE SETS OF EQUIPMENT



HXGN-12 环网开关柜
HXGN-12 ring network switch cabinet



DFW-12 高压电缆分支箱
DFW-12 high voltage cable branch box



GGD 交流低压配电柜
GGD AC low voltage distribution cabinet



JP 配电柜
JP distribution cabinet



XL 动力配电箱
XL power distribution box



FDX 电表箱 (配电板)
FDX meter box



车间实拍 / WORKSHOP PHOTOS

PROFESSIONAL EQUIPMENT AND TECHNOLOGY

专业的设备和生产技术

我公司具有一批素质高、实践经验丰富的技术人员和一流的生产设备，采用完整的生产经营管理体系进行生产，产品质量、生产工艺水平不断提高。

Our company has a group of high-quality and experienced technical personnel and first-class production equipment, and adopts a complete production and operation management system for production. The product quality and production technology level are continuously improved.



50,000 SQUARE METERS PRODUCTION WORKSHOP

50000m² 生产车间

公司现有数控加工设备，激光切割设备等大型高、精、尖加工设备23台（套），通用设备60套以上。

The company currently has 23 sets (sets) of large-scale high-precision, cutting-edge processing equipment such as CNC processing equipment and laser cutting equipment, and more than 60 sets of general equipment.

下设变压器生产车间、铁塔生产车间、金工车间、电气总装车间，生产车间建筑面积5万平方米。

There are transformer production workshops, iron tower production workshops, metalworking workshops, and electrical assembly workshops. The construction area of the production workshops is 50,000 square meters.



企业文化 / CORPORATE CULTURE



OUR TEAM

以人为本,诚信赢天下。
People oriented, Integrity to win the world.



拔河比赛
Tug of war



套圈接力
Femule relay



巨人脚步
Giant footsteps



先进个人
Advanced individual



集团表彰大会合影
Photo of group commendation meeting



年度颁奖典礼
Annual award ceremony



赛前动员
Pre match mobilization



湖边跑步
Lakeside running



篮球比赛
basketball match

合作客户 / COOPERATIVE CUSTOMERS



所有产品均严格按ISO9001国际质量管理体系标准进行管理生产，产品除满足国内市场需求外，还出口到中东、东南亚、北美、欧洲、日本、澳大利亚等国外市场。

All products are managed and produced in strict accordance with the ISO9001 international quality management system standard. In addition to meeting the needs of the domestic market, the products are also exported to the Middle East, Southeast Asia, North America, Europe, Japan, Australia and other foreign markets.

公司永远追求以可靠的产品质量、竞争力的产品价格、优良的售后服务与广大国内外客户共进共赢、共创辉煌。

The company always pursues a win-win situation and a brilliant future with the majority of domestic and foreign customers with reliable product quality, competitive product prices and excellent after-sales services.

