



扫描浏览电子样本



PRODUCT SELECTION MANUAL

产品·选型手册

- 国家电网合格供应商
- 江苏省高新技术企业
- 国家节能产品推广企业



江苏鑫鸿电气设备有限公司
JIANGSU XINHONG ELECTRIC EQUIPMENT CO., LTD.

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▲ 本广告资料由江苏鑫鸿电气设备有限公司印制，仅用于说明本系列产品的相关信息。鑫鸿电气可能因技术升级或采用更新的生产工艺而改进本手册有关内容；或对本手册的印刷错误及不准确的信息进行必要的改进和更改，恕不另行通知；商家订货时请随时联系本公司，以证实相关信息。

鑫鸿电气

一站式智慧输配电解决方案服务商
One stop smart transmission and distribution
solution service provider

www.xinhongdianqi.com

2018 年

公司成立于 2018 年

2.3 亿

年销售额约 2.3 亿元

ISO

三体系

通过国家质量体系的各项标准

江苏鑫鸿电气设备有限公司成立于 2018 年 10 月 18 日，是一家以工业电气为主导，集研发、制造、贸易、服务于一体的高新技术企业，主要生产电力变压器、高低压成套设备、箱式变电站、预制舱式变电站等电力产品。年销售额约 2.3 亿元；占地面积 27934.87 m²，其中建筑面积 15245.66 m²；现有员工 100 余人，其中高级工程师 1 人，中级工程师 2 人。

公司坐落在江苏省邳州市碾庄镇五金机械产业园，连霍高速、陇海铁路、311 国道横贯东西，京杭运河、251 省道、271 省道纵连南北，区位优势，交通便捷。

公司率先通过了 ISO9001 国际质量管理体系认证、ISO14001 环境管理体系认证、OHSMS18001 职业健康安全管理体系认证，主导产品全部取得 CCC 认证。并先后荣获“江苏省高新技术企业、江苏省民营科技型企业、江苏省名牌产品、全国质量诚信示范企业”等荣誉称号。

公司以“诚信立足、创新致胜”的崇高理念为指引。本着：“诚信、务实、创新、发展”的企业精神，全力将江苏鑫鸿电气设备有限公司打造成为管理科学、形象卓越、规模宏大的知名企业。

www.xinhongdianqi.com

Jiangsu Xinhong Electric Equipment Co., LTD., founded on October 18, 2018, is a high-tech enterprise with industrial electrical as the leading, integrating research and development, manufacturing, trade and service, mainly producing power transformers, high and low voltage complete sets of equipment, box type substation, prefabricated cabin type substation and other power products. Annual sales of about 230 million yuan; Covers an area of 27,934.87 m², of which the building area is 15,245.66 m²; There are more than 100 employees, including 1 senior engineer and 2 intermediate engineers.

The company is located in the hardware machinery industrial park in Xuanzhuang Town, Pizhou City, Jiangsu Province, linking Huo high-speed, Longhai Railway, 311 national Road across the east and west, Beijing-Hangzhou Canal, 251 provincial road, 271 provincial road longitudinal north-south, superior location, convenient transportation. The company took the lead in passing the ISO9001 international quality management system certification, ISO14001 environmental management system certification, OHSMS18001 occupational health and safety management system certification, leading products all obtained CCC certification. And has won the "high-tech enterprise in Jiangsu Province, private science and technology enterprise in Jiangsu Province, famous brand products in Jiangsu Province, national quality and integrity demonstration Enterprise" and other honorary titles.

The company is guided by the lofty concept of "honesty based, innovation wins". In line with the spirit of "integrity, pragmatism, innovation and development", Jiangsu Xinhong Electrical Equipment Co., Ltd. will be built into a well-known enterprise with scientific management, excellent image and grand scale.

COMPANY PROFILE

鑫鸿·企业简介

关于我们

生产设备

资质证书

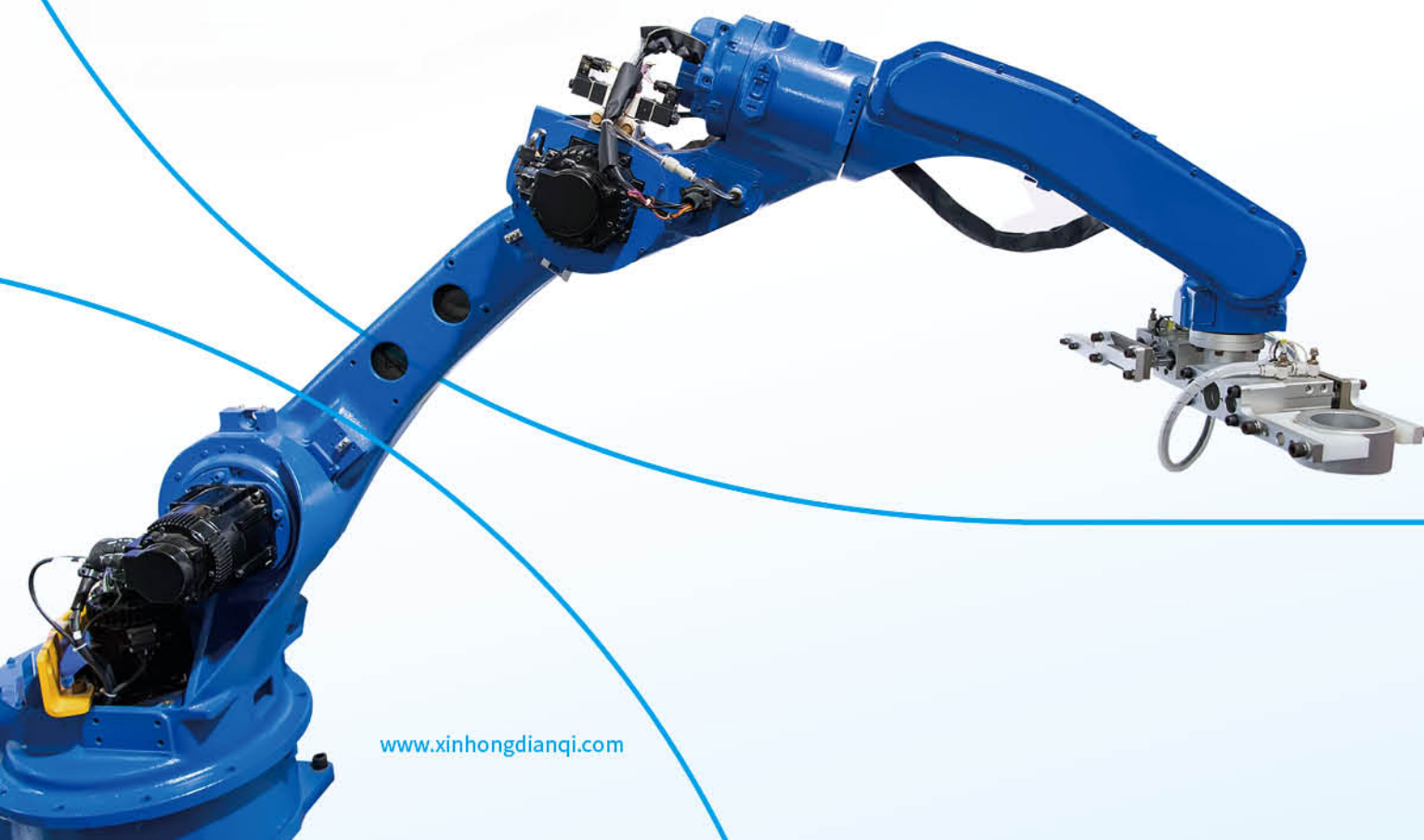
产品目录

PRECISION EQUIPMENT

鑫鸿·精密设备

我们深知先进的设备是优秀企业的必备条件，公司自成立之初就对生产设备的革新与改造从未有过的一丝松懈，同时为设备的改造与革新投入了大量的资金，这些先进的设备给优质生产带来了极大的方便和极高的效益，从而保证了产品的质量，满足了需求。

We know that precision equipment is a necessary condition for excellent enterprises, the company since the beginning of the establishment of the production equipment innovation and transformation has never been a trace of slack, while for the equipment transformation and innovation invested a lot of money, these advanced equipment to quality production has brought great convenience and high efficiency, so as to ensure the quality of products, to meet the needs.



PRODUCTION WORKSHOP

鑫鸿·车间现场

鑫鸿的车间，是集高科技、高效率与人文关怀于一体的现代化生产基地，它不仅是制造高品质设备的摇篮，更是展现中国智能制造力量与创新精神的窗口。在这里，每一道工序、每一次创新，都在为推动行业发展、提升国家制造实力贡献着不可或缺的力量。

Xinhong's workshop is a modern production base integrating high-tech, high efficiency and humanistic care. It is not only the cradle of manufacturing high-quality equipment, but also a window to show the power of China's intelligent manufacturing and innovative spirit. Here, every process and every innovation are contributing indispensable forces to promote the development of the industry and enhance the national manufacturing strength.



实力铸就辉煌，品牌辉映未来 荣耀见证公司卓越之路

Strength creates brilliance, brand reflects the future
Glory witness the company's road to excellence



ENTERPRISE QUALIFICATION

鑫鸿·企业资质

我公司已通过 ISO 45001 职业健康安全管理体系认证、ISO 24001 环境管理体系认证、ISO 9001 质量管理体系认证，获得国家高新技术企业证书，AAA 重合同守信用单位，江苏省质量信得过 AAA 级品牌企业等荣誉。

Our company has passed the ISO 45001 occupational health and safety management system certification, ISO 24001 environmental management system certification, ISO 9001 quality management body certification, obtained the national high-tech enterprise certificate, AAA contract-abiding and trustworthy unit, Jiangsu Province quality trustworthy AAA brand enterprise and other honors.

PRODUCT QUALIFICATION

鑫鸿·产品资质

我公司电力变压器产品均取得国家 CQC 认证、高低压成套产品均通过国家级型式试验，低压成套产品取得国家 CQC 认证，我公司是国家电网公司资质核实认可的合格供应商。

Our power transformer products have obtained the national CQC certification, high and low voltage complete sets of products have passed the national type test, low voltage complete sets of products have obtained the national CQC certification, our company is the national grid company qualification verification and recognition of qualified suppliers.



01

变压器系列

TRANSFORMER
SERIES

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油浸式配电变压器

S13

S13 Type oil-immersed distribution transformer



| 产品概述 Product overview

S13 型是我公司在原 S11 配电变压器基础上，通过新材料、新工艺的研究运用及自主创新与技术引进结合的方式，通过对铁心及线圈结构的优化创新设计，达到降低空载损耗及噪音的目的，自主开发的产品。

噪声水平与现行国标 JB/T10088-2016 比较平均下降 20%，产品性能水平达到国内先进水平。

S13 is a product independently developed by our company on the basis of the original S11 distribution transformer, through the research and application of new materials and new technologies and the combination of independent innovation and technology introduction, through the optimization and innovative design of the core and coil structure, to achieve the purpose of reducing no-load loss and noise.

The noise level is 20% lower than the current national standard JB/T10088-2016, and the product performance level has reached the domestic advanced level.

| 型号及含义 Model and meaning

S	13	-	M	-		/	
三相 Three phase	性能水平代号 Performance level code		全密封 Complete seal		额定容量 kVA Rated capacity kVA		电压等级 kV Voltage class kV

| 主要技术参数 Main technical parameters

型号 Model number	额定容量 (kVA) Rated capacity	联结组标号 Join group label	电压组合 (kV) Voltage combination			空载损耗 (W) No-load loss	Dy 负载损耗 (W) Dy load loss	Yy 负载损耗 (W) Yy load loss	空载电流 (%) No-load current	短路阻抗 (%) Short-circuit impedance
			高压 High tension	分接范围 Tapping range	低压 Low pressure					
S13-M-30	30	Yyn0 或 or Dyn11	10 6.3 6	±5% 或 or ±2x2.5%	0.4	80	630	600	1.5	4
S13-M-50	50					100	910	870	1.3	
S13-M-63	63					110	1090	1040	1.2	
S13-M-80	80					130	1310	1250	1.2	
S13-M-100	100					150	1580	1500	1.1	
S13-M-125	125					170	1890	1800	1.1	
S13-M-160	160					200	2310	2200	1	
S13-M-200	200					240	2730	2600	1	
S13-M-250	250					290	3200	3050	0.9	
S13-M-315	315					340	3830	3650	0.9	
S13-M-400	400					410	4520	4300	0.8	
S13-M-500	500					480	5410	5150	0.8	
S13-M-630	630					570	6200		0.6	4.5
S13-M-800	800					700	7500		0.6	
S13-M-1000	1000					830	10300		0.6	
S13-M-1250	1250					970	12000		0.5	
S13-M-1600	1600					1170	14500		0.5	
S13-M-2000	2000					1550	18300		0.4	
S13-M-2500	2500					1830	21200		0.4	5

非晶合金变压器

SH15

SH15 type amorphous alloy transformer



| 产品概述 Product overview

该产品是充油密封型原理同密封型电力变压器。非晶合金的基础元素是铁、镍、钴、硅、硼、碳等组成。是一种向同性的软磁材料，磁化功率小，不存在阻碍畴壁移动的结构缺陷，厚度极薄，只有 0.027mm，填充系数相应变小，只有 0.75~0.8，电阻率很高，是硅钢板的 3~6 倍，硬度是硅钢片的 5 倍，非晶合金材料对应力特别敏感。

SH15-M-30~2500/6~10 系产品，空载损耗在 GB/T6541 标准值基础上下降 70%。执行标准 GB/T25446-2010 《油浸式非晶合金铁心配电变压器技术参数》

The product is oil-filled sealed type principle with sealed type power transformer. The basic elements of amorphous alloy are iron, nickel, cobalt, silicon, boron, carbon and so on. Is a kind of isotropic soft magnetic material, magnetizing power is small, there is no structural defects that hinder the movement of the domain wall, the thickness is extremely thin, only 0.027mm, the filling coefficient is correspondingly small, only 0.75~0.8, the resistivity is very high, is 3 to 6 times of the silicon steel plate, the hardness is 5 times of the silicon steel sheet, amorphous alloy material is particularly sensitive to stress.

SH15-M-30~2500/6~10 series products, no-load loss on the basis of GB/T6541 standard value decreased by 70%. Implement standard GB/T25446-2010 "Oil immersed amorphous alloy core distribution transformer technical parameters"

| 型号及含义 Model and meaning

S	(B)	H	15	-	M	-		/	
三相 Three phase	性能水平代号 Performance level code	非晶合金铁心 Amorphous alloy core	性能水平代号 Performance level code		全密封 Complete seal		额定容量 kVA Rated capacity kVA		电压等级 kV Voltage class kV

| 主要技术参数 Main technical parameters

型号 Model number	额定容量 (kVA) Rated capacity	联结组标号 Join group label	电压组合 (kV) Voltage combination			空载损耗 (W) No-load loss	Dy 负载损耗 (W) Dy load loss	Yy 负载损耗 (W) Yy load loss	空载电流 (%) No-load current	短路阻抗 (%) Short-circuit impedance
			高压 High tension	分接范围 Tapping range	低压 Low pressure					
SH15-M-30	30	Dyn11	6 6.3 10 10.5 11	±5% 或 or ±2x2.5%	0.4	33	630	600	1.5	4
SH15-M-50	50					43	910	870	1.2	
SH15-M-63	63					50	1090	1040	1.1	
SH15-M-80	80					60	1310	1250	1	
SH15-M-100	100					75	1580	1500	0.9	
SH15-M-125	125					85	1890	1800	0.8	
SH15-M-160	160					100	2310	2200	0.6	
SH15-M-200	200					120	2730	2600	0.6	
SH15-M-250	250					140	3200	3050	0.6	
SH15-M-315	315					170	3830	3650	0.5	
SH15-M-400	400					200	4520	4300	0.5	
SH15-M-500	500					240	5410	5150	0.5	
SH15-M-630	630					320	6200		0.3	4.5
SH15-M-800	800					380	7500		0.3	
SH15-M-1000	1000					450	10300		0.3	
SH15-M-1250	1250					530	12000		0.2	
SH15-M-1600	1600					630	14500		0.2	
SH15-M-2000	2000					750	18300		0.2	
SH15-M-2500	2500					900	21200		0.2	5

注 1: 当铁心为三相三柱时，根据需要也可采用 Yyn0 联结组。

Note 1: When the core is three-phase three-column, the Yyn0 connection group can also be used according to the need.

电力变压器
35kV
35kV class power
transformer



| 产品概述 Product overview

35kV 系列电力变压器在设计上比较先进，在材料、结构和工艺上进行了大幅度的改进和提高。高低压夹件采用钢拉带或上梁及侧梁拉紧，形成坚固的框架结构，增强铁芯夹紧力和耐受运输冲击能力。抗短路能力强，外观造型美观，运行可靠，损耗低，噪音小，达到国外同类产品先进水平。

本公司生产的 SZ13-20000/35 变压器样机一次性通过国家变压器检测中心进行的突发短路试验，高低压线圈设纵向油道有利于散热，可大幅度降低铜油温差及线圈内部的最热点温升。

35kV series power transformers are more advanced in design, and have been greatly improved and improved in material, structure and process. The high and low pressure clamps are tightened with steel pull belts or upper and side beams to form a strong frame structure, which enhances the clamping force of the iron core and the ability to withstand transportation impact. Strong short-circuit resistance, beautiful appearance, reliable operation, low loss, low noise, to the advanced level of similar foreign products.

The SZ13-20000/35 transformer prototype produced by the company passed the burst short circuit test conducted by the National transformer testing center at one time, and the longitudinal oil channel of the high and low voltage coil is conducive to heat dissipation, which can greatly reduce the temperature difference of copper oil and the most hot spot temperature rise inside the coil.

| 型号及含义 Model and meaning

S				-		/	
三相 Three phase	"F" 为风冷 自冷无代号 "F" is air-cooled self-cooling without code	"Z" 为有载调压 无励磁调压无代号 "Z" is for on-load voltage regulation No excitation voltage regulation No code	性能水平代号 Performance level code		额定容量 kVA Rated capacity kVA		电压等级 kV Voltage class kV

| 执行标准 Enforce Standards

GB 1094.1-2	《电力变压器总则》，《电力变压器的温升》 《General Rules for Power Transformers》，《Temperature Rise of Power Transformers》
GB 1094.3	《绝缘水平、绝缘试验和外绝缘空气间隙》 《Insulation Levels, insulation Tests and Outer Insulation Air Gaps》
GB 1094.5	《电力变压器承受短路的能力》 《Capacity of power transformers to withstand short Circuits》
GB/T 6451	《油浸式电力变压器技术参数和要求》 《Technical Parameters and Requirements for oil-immersed power Transformers》
GB/T 15164	《油浸式电力变压器负载导则》 《Load Guide for Oil-immersed Power Transformers》
GB 2536	《变压器油》 《Transformer Oil》

油浸式变压器
能效二级
Energy efficiency two-
stage oil-immersed
transformer



| 产品概述 Product overview

GB20052-2020 标准节能型产品能效二级油浸式变压器是我公司通过新材料、新工艺的研究运用及自主创新与技术引进结合的方式，通过对铁芯及线圈结构的优化创新设计，达到降低空载损耗及噪音的目的，自主开发的产品。

噪声水平与现行国标 JB/T10088-2016 比较平均下降 20%，产品性能水平达到国内先进水平。

GB20052-2020 standard energy-saving products Energy efficiency two-stage oil-immersed transformer is a product independently developed by our company through the research and application of new materials and new processes and the combination of independent innovation and technology introduction, through the optimization and innovative design of iron core and coil structure, to reduce no-load loss and noise.

The noise level is 20% lower than the current national standard JB/T10088-2016, and the product performance level has reached the domestic advanced level.

| 型号及含义 Model and meaning

S	-	M	-		/		-	NX2
三相 Three phase		全密封 Complete seal		额定容量 kVA Rated capacity kVA		电压等级 kV Voltage level		能效等级 Energy efficiency class

油浸式变压器

能效一级

Transformer energy efficiency
Primary oil-immersed transformer



| 产品概述 Product overview

GB20052-2020 标准节能型产品能效一级油浸式变压器是我公司通过新材料、新工艺的研究运用及自主创新与技术引进结合的方式，通过对铁芯及线圈结构的优化创新设计，达到降低空载损耗及噪音的目的，自主开发的产品。

噪声水平与现行国标 JB/T10088-2016 比较平均下降 20%，产品性能水平达到国内先进水平。相较于能效二级产品，能效一级产品损耗更低。

GB20052-2020 standard energy-saving products Energy efficiency oil-immersed transformer is a product independently developed by our company through the research and application of new materials and new processes and the combination of independent innovation and technology introduction, through the optimization and innovative design of iron core and coil structure, to reduce no-load loss and noise.

The noise level is 20% lower than the current national standard JB/T10088-2016, and the product performance level has reached the domestic advanced level. Energy efficiency Level I products have lower losses than energy efficiency Level II products.

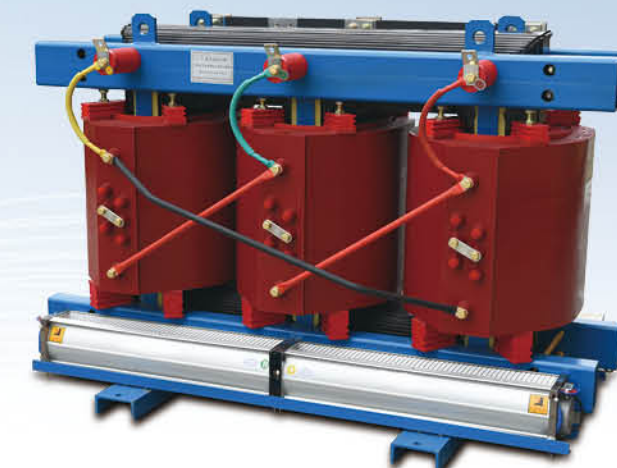
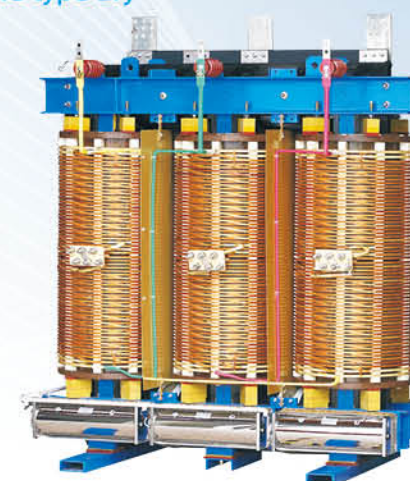
| 型号及含义 Model and meaning

S	-	M	-		/		-	NX1
三相 Three phase		全密封 Complete seal		额定容量 kVA Rated capacity kVA		电压等级 kV Voltage class kV		能效等级 Energy efficiency class

干式变压器

SG(B)13、SC(B)13

SG(B)13, SC(B)13 type dry transformer



| 产品特点 Product characteristics

- 由于干式变压器具有抗短路能力强、维护工作量小、运行效率高、体积小、噪音低等优点，常用于防火、防爆等性能要求高的场所。安全，防火，无污染，可直接运行于高负荷用电；
- 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；
- 低损耗，低噪音，节能效果明显，免维护；
- 散热性能好，过负载能力强，强迫风冷状态下可短时超容量运行；
- 具有一定的防潮性能，可以在高湿度的恶劣环境下运行；
- 干式变压器可配备完善的温度检测和保护系统。采用智能信号温控系统，可自动检测和巡回显示三相绕组各自的工作温度，可自动启动、停止风机，并有报警、跳闸等功能设置；
- 体积小，重量轻，占地空间少，安装费用低。
- Dry-type transformer has the advantages of strong short-circuit resistance, small maintenance workload, high operation efficiency, small volume, low noise, and is often used for fire prevention,
- Places with high performance requirements such as explosion-proof. Safe, fireproof, pollution-free, can be directly operated in high-load electricity;
- Adopt domestic advanced technology, high mechanical strength, strong short-circuit resistance, small partial discharge, good thermal stability, high reliability, long service life;
- Low loss, low noise, obvious energy-saving effect, maintenance-free;
- Good heat dissipation, strong overload capacity, short time super capacity operation under forced air cooling;
- It has certain moisture-proof performance and can operate in harsh environments with high humidity;
- Dry transformers can be equipped with a comprehensive temperature detection and protection system. The intelligent signal temperature control system can automatically detect and display the working temperature of the three-phase winding, automatically start and stop the fan, and have alarm, trip and other functions.
- Small size, light weight, less space, low installation costs.

| 型号及含义 Model and meaning

S	G/C	(B)	13	-		/	
三相 Three phase	G: 非包封型 (H 级) C: 环氧树脂浇注型 G: Non-encapsulated type (H class) C: epoxy resin cast type	低压可采用箔式线圈 Foil coil can be used for low voltage	性能水平代号 Performance level code		额定容量 kVA Rated capacity kVA		电压等级 kV Voltage class kV

非晶合金干式变压器

SC(B)H15

SC(B)H15 type amorphous alloy dry type transformer



| 产品特点 Product characteristics

- 低耗节能：采用非晶合金材料制成的铁芯，空载损耗及空载电流低，相当于硅钢片的 30%。非晶合金干式变压器的空载损耗比 GB/T10228 规定值下降 75%，可大大降低运行费用，节能效果显著。
- 抗腐蚀能力强：非晶合金铁芯通过树脂和耐高温硅胶进行全封装处理，有效防止锈蚀和非晶合金碎片脱落，从而有效保护铁芯和线圈。
- 噪声低：为降低产品运行噪声，在产品设计时选取合理的工作磁通密度，在产品加工时改进铁芯及线圈结构、采用特殊降噪材料及工艺，产品的噪声低于国标 GB/T10088 要求约 5 ~ 15 分贝。
- 抗短路能力强：产品采用三相三柱式结构，铁芯及线圈的夹持结构紧凑合理。我司生产的非晶合金干式变压器在国内率先通过突发短路试验。
- 局放低：由于采用环氧树脂真空浇注，产品温升低，使用寿命长，散热能力强，在风冷条件下可以 150% 额定负载运行。产品配备的温度控制保护系统为非晶合金干式变压器安全运行提供可靠保障。

- Low consumption and energy saving: The iron core made of amorphous alloy material has low no-load loss and no-load current, which is equivalent to 30% of the silicon steel sheet. The no-load loss of amorphous alloy dry transformer is reduced by 75% compared with the specified value of GB/T10228, which can greatly reduce the operating cost and save energy significantly.
- Strong corrosion resistance: The amorphous alloy core is fully packaged with resin and high temperature resistant silica gel, which effectively prevents corrosion and the loss of amorphous alloy fragments, thus effectively protecting the core and coil.
- Low noise: In order to reduce the operating noise of the product, select a reasonable working magnetic flux density during product design, improve the structure of the iron core and coil during product processing, use special noise reduction materials and processes, and the noise of the product is lower than the national standard GB/T10088 requirements of about 5 ~ 15 dB.
- Strong short-circuit resistance: the product adopts three-phase three-column structure, and the clamping structure of the iron core and coil is compact and reasonable. The dry-type transformer of amorphous alloy produced by our company has passed the burst short circuit test first in China.
- Local lowering: Due to the vacuum casting of epoxy resin, the product temperature rise is low, the service life is long, the heat dissipation capacity is strong, and the operation can be 150% of the rated load under the air cooling condition. The temperature control protection system equipped with the product provides a reliable guarantee for the safe operation of amorphous alloy dry transformer.

| 型号及含义 Model and meaning

S	C	(B)	H	15	-		/	
三相 Three phase	"F" 为风冷 自冷无代号 "F" is air-cooled self-cooling without code	"Z" 为有载调压 无励磁调压无代号 "Z" is for on-load voltage regulation No excitation voltage regulation No code	非晶合金 Amorphous alloy	性能水平代号 Performance level code		额定容量 kVA Rated capacity kVA		电压等级 kV Voltage class kV

干式电力变压器

35kV

35kV dry-type power transformer



| 产品概述 Product overview

我公司生产的 35kV 干式变压器有 13 型、14 型、18 型，具体参数可详询业务人员。

- 由于干式变压器具有抗短路能力强、维护工作量小、运行效率高、体积小、噪音低等优点，常用于防火、防爆等性能要求高的场所。安全，防火，无污染，可直接运行于高负荷用电；
- 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；
- 低损耗，低噪音，节能效果明显，免维护；
- 散热性能好，过负载能力强，强迫风冷状态下可短时超容量运行；
- 具有一定的防潮性能，可以在高湿度的恶劣环境下运行；
- 干式变压器可配备完善的温度检测和保护系统。采用智能信号温控系统，可自动检测和巡回显示三相绕组各自的工作温度，可自动启动、停止风机，并有报警、跳闸等功能设置；
- 体积小，重量轻，占地空间少，安装费用低。

The 35kV dry type transformers produced by our company have 13, 14 and 18 types, and the specific parameters can be consulted by the business personnel.

- Dry-type transformer has the advantages of strong short-circuit resistance, small maintenance workload, high operating efficiency, small size, low noise, and is often used in places with high performance requirements such as fire prevention and explosion prevention. Safe, fireproof, pollution-free, can be directly operated in high-load electricity;
- Adopt domestic advanced technology, high mechanical strength, strong short-circuit resistance, small partial discharge, good thermal stability, high reliability, long service life;
- Low loss, low noise, obvious energy-saving effect, maintenance-free;
- Good heat dissipation, strong overload capacity, short time super capacity operation under forced air cooling;
- It has certain moisture-proof performance and can operate in harsh environments with high humidity;
- Dry transformers can be equipped with a comprehensive temperature detection and protection system. The intelligent signal temperature control system can automatically detect and display the working temperature of the three-phase winding, automatically start and stop the fan, and have alarm, trip and other functions.
- Small size, light weight, less space, low installation costs.

干式变压器

能效二级

Energy efficiency secondary dry transformer



| 产品特点 Product characteristics

- GB20052-2020 标准节能型产品能效二级干式变压器具有抗短路能力强、维护工作量大、运行效率高、体积小、噪音低等优点，常用于防火、防爆等性能要求高的场所。安全，防火，无污染，可直接运行于高负荷用电；
- 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；
- 低损耗，低噪音，节能效果明显，免维护；
- 散热性能好，过负载能力强，强迫风冷状态下可短时超容量运行；
- 具有一定的防潮性能，可以在高湿度的恶劣环境下运行；
- 干式变压器可配备完善的温度检测和保护系统。采用智能信号温控系统，可自动检测和巡回显示三相绕组各自的工作温度，可自动启动、停止风机，并有报警、跳闸等功能设置；
- 体积小，重量轻，占地空间少，安装费用低。

- GB20052-2020 standard energy-saving products Energy efficiency secondary dry transformer has the advantages of strong short-circuit resistance, small maintenance workload, high operating efficiency, small size, low noise, and is often used in places with high performance requirements such as fire prevention and explosion prevention. Safe, fireproof, pollution-free, can be directly operated in high-load electricity;
- Adopt domestic advanced technology, high mechanical strength, strong short-circuit resistance, small partial discharge, good thermal stability, high reliability, long service life;
- Low loss, low noise, obvious energy-saving effect, maintenance-free;
- Good heat dissipation, strong overload capacity, short time super capacity operation under forced air cooling;
- It has certain moisture-proof performance and can operate in harsh environments with high humidity;
- Dry transformers can be equipped with a comprehensive temperature detection and protection system. The intelligent signal temperature control system can automatically detect and display the working temperature of the three-phase winding, automatically start and stop the fan, and have alarm, trip and other functions.
- Small size, light weight, less space, low installation costs.

| 型号及含义 Model and meaning

S	C	(B)	-		/		-	NX2
三相 Three phase	环氧树脂浇注型 Epoxy resin cast type	低压可采用箔式线圈 Foil coil can be used for low voltage		额定容量 kVA Rated capacity kVA		电压等级 kV Voltage class kV		能效等级 Energy efficiency class

干式变压器

能效一级

Energy efficiency primary dry transformer



| 产品特点 Product characteristics

- GB20052-2020 标准节能型产品能效一级干式变压器具有抗短路能力强、维护工作量大、运行效率高、体积小、噪音低等优点，常用于防火、防爆等性能要求高的场所。安全，防火，无污染，可直接运行于高负荷用电；
- 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；
- 低损耗，低噪音，节能效果明显，免维护；
- 散热性能好，过负载能力强，强迫风冷状态下可短时超容量运行；
- 具有一定的防潮性能，可以在高湿度的恶劣环境下运行；
- 干式变压器可配备完善的温度检测和保护系统。采用智能信号温控系统，可自动检测和巡回显示三相绕组各自的工作温度，可自动启动、停止风机，并有报警、跳闸等功能设置；
- 体积小，重量轻，占地空间少，安装费用低。

- GB20052-2020 standard energy-saving products Energy efficiency Level 1 dry transformer has the advantages of strong short-circuit resistance, small maintenance workload, high operating efficiency, small size, low noise, and is often used in places with high performance requirements such as fire prevention and explosion prevention. Safe, fireproof, pollution-free, can be directly operated in high-load electricity;
- Adopt domestic advanced technology, high mechanical strength, strong short-circuit resistance, small partial discharge, good thermal stability, high reliability, long service life;
- Low loss, low noise, obvious energy-saving effect, maintenance-free;
- Good heat dissipation, strong overload capacity, short time super capacity operation under forced air cooling;
- It has certain moisture-proof performance and can operate in harsh environments with high humidity;
- Dry transformers can be equipped with a comprehensive temperature detection and protection system. The intelligent signal temperature control system can automatically detect and display the working temperature of the three-phase winding, automatically start and stop the fan, and have alarm, trip and other functions.
- Small size, light weight, less space, low installation costs.

| 型号及含义 Model and meaning

S	C	(B)	-		/		-	NX1
三相 Three phase	环氧树脂浇注型 Epoxy resin cast type	低压可采用箔式线圈 Foil coil can be used for low voltage		额定容量 kVA Rated capacity kVA		电压等级 kV Voltage class kV		能效等级 Energy efficiency class

组合式变压器

ZGS

ZGS combined transformer



| 产品概述 Product overview

ZGS 系列组合式变压器即美式箱变，是根据城乡电网建设发展和改造的需要研制的系列产品。它是将变压器器身、开关设备、熔断器、分接开关、低压配电装置等相应辅助设备组合的变压器，能满足用户电能计量、无功补偿、低压分路等各种配置要求。ZGS 型组合式变压器作为交流 50Hz、6~10kV 的电网中，额定容量为 30~1600kVA 的独立成套变配电装置，即可用于户外，也可用于户内。广泛适用于工业园区、城市住宅小区、商业中心、道路照明、高层建筑及临时施工现场等各种场所，其优点是：环保、占地面积小、安装方便。

ZGS series combined transformer is American box transformer, which is a series of products developed according to the needs of urban and rural power grid construction development and transformation. It is a transformer that combines the corresponding auxiliary equipment such as transformer body, switchgear, fuse, tap changer, low voltage distribution device, etc., which can meet the user's power metering, reactive power compensation, low voltage shunt and other configuration requirements. ZGS type combined transformer as an AC 50Hz, 6~10kV power grid, rated capacity of 30~1600kVA independent complete sets of power distribution devices, can be used outdoors, can also be used indoors. Widely used in industrial parks, urban residential areas, commercial centers, road lighting, high-rise buildings and temporary construction sites and other places, its advantages are: environmental protection, small footprint, convenient installation.

| 型号及含义 Model and meaning

Z		S		-		-		/	
组合式变压器 Composite transformer	F 分箱式 G 共箱式 F Divided box type G Common box type	三相 Three phase	性能水平代号 Performance level code	高压接线方案 Z 终端 H 环网 High voltage connection scheme Z terminal H ring network	额定容量 kVA Rated capacity kVA				电压等级 kV Voltage class kV

| 产品特点 Product characteristics

- 体积小，结构紧凑，占地面积小，安装方便
- 低损耗、低噪音，低温升，超铭牌容量负载能力强，抗突发短路能力强
- 全封闭、全绝缘结构，运行安全可靠
- 接线方式灵活，既可用于终端系统，也可用于环网系统，转换方便，提高了供电可靠性
- 操作方便，维护方便，生产周期短，工程造价低
- JB/T10217-2013 组合式变压器
- DL/T1267-2013 组合式变压器使用条件
- Small size, compact structure, small footprint, easy installation
- Low loss, low noise, low temperature rise, over nameplate capacity load capacity, strong resistance to sudden short circuit
- Fully enclosed, fully insulated structure, safe and reliable operation
- Flexible wiring mode, can be used for terminal system, can also be used for ring network system, easy conversion, improve the reliability of power supply
- Easy operation, easy maintenance, short production cycle, low project cost
- JB/T10217-2013 Combined transformer
- DL/T1267-2013 Combined transformer conditions of use

高压 / 低压预装式变电站

YB

YB high/low voltage pre-installed substation



| 产品概述 Product overview

城乡中压电网由中压配电网与低压配电网两部分组成，中压配电网包括首端变电站、末端变电站、配电所（开闭所）、配电线路以及柱上或地面开关设备，涉及变压器、开关设备、量测设备、限压限流设备、配电线路等。

The urban and rural medium-voltage power grid consists of medium-voltage distribution network and low-voltage distribution network. The medium-voltage distribution network includes the first end substation, the end substation, the distribution office (open and close), the distribution line, and the column or ground switchgear, involving transformers, switchgear, measuring equipment, voltage and current limiting equipment, and distribution lines.

| 型号及含义 Model and meaning

YB		-		/		-	
组合式变压器 Composite transformer	结构型式 M 目字型 ● P 品字型 Structural pattern M font ● P font	高压侧系统最高运行电压 kV The high pressure side system is the highest Operating voltage kV	低压额定电压 kV Low voltage rated voltage kV				额定容量 kVA Rated capacity kVA

| 产品特点 Product characteristics

- 所有设备由制造厂一次成套供给，用户不再采购，在制造厂内负责完成设计、制造、总装及二次配线，要经过型式试验和出厂检查试验，能整体安全顺利地运送到用户现场，成套性强、体积小、节省占地面积，选址灵活，安装快捷方便，通电周期短，外观整洁美观，对环境适应性强，可以和周边环境协调。
- 能深入中压负荷中心，减少了网损，提高了供电质量。
- 节约资金和人力，投资少，见效快，不需基建投资，减免值班人员，维修间隔周期长、提高了安全运行可靠性。
- 适应现代城市电缆入地工程要求，变电站不用后可以异地再用，无须重复投资。
- All the equipment is supplied by the manufacturer in a complete set, the user no longer purchases, in the factory is responsible for the completion of the design, manufacturing, final assembly and secondary wiring, to go through the type test and factory inspection test, can be safely and smoothly transported to the user site, complete sets of strong, small size, save land area, flexible location, quick and convenient installation, short power cycle, clean and beautiful appearance, Strong adaptability to the environment, and can coordinate with the surrounding environment.
- Can penetrate into the middle voltage load center, reduce network loss and improve power supply quality.
- Save capital and manpower, less investment, quick effect, no need for infrastructure investment, reduce duty personnel, long maintenance interval cycle, improve safe operation reliability.
- Adapt to the requirements of modern urban cable into the ground engineering, the substation can be reused in different places after use, without repeated investment.

组合式变压器

KYN61-40.5

KYN61-40.5 type combined transformer



| 产品概述

KYN61-40.5 铠装式金属封闭开关设备（简称开关柜）系我厂在原产品的基础上设计改进的开关设备。它适应于三相交流 50Hz 电力系统，用于接受和分配电能并对电路进行控制、保护及监测。

本开关柜具有各种防止误操作的功能，包括防止带负荷移动手车，防止带电合接地开关和防止误入带电间隔等功能。

本开关柜内配置性能优良的 ZN85、VN1 真空断路器或 ABB 公司 VD4、HD4 系列真空断路器。开关柜是技术前卫、性能稳定、结构合理、使用方便、安全的配电设备。

KYN61-40.5 armored metal enclosed switchgear (referred to as switchgear) is a switchgear designed and improved by our factory on the basis of the original products. It is suitable for three-phase AC 50Hz power system, which is used to receive and distribute electric energy and control, protect and monitor the circuit.

The switchgear has various functions to prevent misoperation, including preventing moving handcar with load, preventing live grounding switch and preventing stray live interval.

The switchgear is equipped with ZN85, VN1 vacuum circuit breakers or ABB VD4, HD4 series vacuum circuit breakers with excellent performance. Switchgear is a power distribution equipment with advanced technology, stable performance, reasonable structure, convenient use, safety and reliability.

| 型号及含义 Model and meaning

K	Y	N	61	-	40.5			
金属铠装式 Metal armoured type	移开式 Shifting type	户内 indoor	设计序号 Design sequence number		额定电压 (kV) Rated voltage (kV)	断路器种类 Z 真空 SF6 六氟化硫 Circuit breaker Type Z vacuum SF6 sulfur hexafluoride	额定电流 Rated current	额定短路开断电流 (kA) Rated short circuit breaking current (kA)

| 使用条件

- 周围空气温度：最高温度 +40℃，最低温度 -10℃；
- 海拔高度：≤ 1000m；
- 周围相对湿度：日平均值 ≤ 95%，月平均值 ≤ 90%；
- 周围空气：不适用于有腐蚀、严重污秽，可燃性气体及剧烈振动的场所；
- 若有地震发生，地震强度不能超过 8 级。

- Ambient air temperature: maximum temperature +40℃, minimum temperature -10℃;
- Altitude: ≤ 1000m;
- Surrounding relative humidity: daily average ≤ 95%, monthly average ≤ 90%;
- Ambient air: not suitable for places with corrosion, serious pollution, flammable gas and violent vibration;
- If an earthquake occurs, the intensity of the earthquake must not exceed magnitude 8.

户内交流高压金属移开式开关设备

KYN28A-12

KYN28A-12 Indoor AC high voltage metal removal switchgear



| 产品概述 Product overview

KYN28A-12 型户内交流高压金属移开式开关设备系三相交流 50Hz、额定电压 12kV、工作电流至 4000A 的户内成套配电装置。适用于发电厂、变电站、工矿企业等作为接受和分配电能之用，对电路起到控制保护和监测等功能，可以用于频繁操作的场所。

KYN28A-12 indoor AC high-voltage metal shift switchgear is a complete set of indoor power distribution equipment with three-phase AC 50Hz, rated voltage 12kV and working current up to 4000A. It is suitable for power plants, substations, industrial and mining enterprises, etc., as the use of accepting and distributing electric energy, the circuit plays the function of control protection and monitoring, and can be used in the place of frequent operation.

| 产品特点 Product characteristics

• 安全可靠的“五防”联锁装置，能够有效防止：

1. 防止误分、误合断路器
2. 防止带负荷推拉断路器手车
3. 防止接地开关处于闭合状态时关合断路器
4. 防止带电运行时误合接地开关
5. 防止误入带电间隔

• 可选配 ZN63A(VS1).VD4、ZN21、3AH 及 VEP 真空断路器，VC7 真空接触器负荷开关及隔离开关等

• 根据用途可分为断路器手车、电压互感器手车、计量手车、隔离手车等，相同用途的手车具有良好的互换性

• 断路器室和电缆室可分别加装加热器，防止凝露和腐蚀发生

• 开关柜的外壳防护等级达到 IP4X，隔室之间及断路器室门打开时防护等级为 IP2X

• Safe and reliable "five prevention" interlocking device, which can effectively prevent:

1. Prevent misdivision and misclosing of circuit breakers
2. Prevent push and pull circuit breaker hand car with load
3. Do not close the circuit breaker when the ground switch is closed
4. Prevent misconnecting the ground switch during live operation
5. Prevent straying into the live interval

• Optional ZN63A(VS1).VD4, ZN21, 3AH and VEP vacuum circuit breakers, VC7 vacuum contactor load switch and isolation switch

• According to the use can be divided into circuit breaker, voltage transformer, metering, isolation, etc., the same purpose of the car has good interchangeability

• The circuit breaker room and cable room can be equipped with separate heaters to prevent condensation and corrosion

• The protection level of the enclosure of the switchgear is IP4X, and the protection level between compartmentaland when the door of the breaker room is opened is IP2X

交流金属封闭环网开关设备

XGN15-12

XGN15-12 AC metal closed
ring switchgear

| 产品概述 Product overview

XGN15-12 型单元式、模块化六氟化硫交流金属封闭环网开关设备，是新一代以六氟化硫开关作为主开关而整柜采用空气绝缘的、金属封闭开关设备。具有结构简单、操作灵活、联锁可靠、安装方便等特点，对各种不同的用电场合、不同的用户要求均能提供满意的技术方案。

传感技术和最新保护继电器的采用，加上先进的技术性能及轻便灵活的装配方案，可以满足市场不断变化的需求。

XGN15-12 型单元式六氟化硫环网柜适用于交流 50Hz、12kV 的电力系统，广泛运用于工业及民用等供电末端工程。适用于以下场所：需双电源供电自动投切的特殊场所、城市居民区配电、小型二次变电站、开闭所、工矿企业、商场、机场、地铁、风力发电、医院、体育场、铁路、隧道等。

防护等级达到 IP2X。

XGN15-12 unit type, modular sulfur hexafluoride AC metal closed ring switchgear, is a new generation of sulfur hexafluoride switch as the main switch and the whole cabinet adopts air insulation, metal closed switchgear. It has the characteristics of simple structure, flexible operation, reliable interlocking, convenient installation, etc., and can provide satisfactory technical solutions for different electric occasions and different user requirements.

The use of sensing technology and the latest protective relays, coupled with advanced technical performance and lightweight and flexible assembly solutions, can meet the changing needs of the market.

XGN15-12 unit type sulfur hexafluoride ring network cabinet is suitable for AC 50Hz, 12kV power system, widely used in industrial and civil power supply end projects. Suitable for the following places: special places requiring dual power supply automatic switching, power distribution in urban residential areas, small secondary substations, opening and closing offices, industrial and mining enterprises, shopping malls, airports, subways, wind power generation, hospitals, stadiums, railways, tunnels, etc.

The protection level is IP2X.

| 产品特点 Product characteristics

XGN15-12 型环网开关柜壳体采用敷铝锌板、镀锌板或冷轧板经数控机械加工成型，面板喷塑处理。开关柜由母线室、开关本体、电缆室、操作机构及控制室四个相互隔离的间隔组成。

柜后设置泄压通道，柜体结构合理，紧凑适用，体积小，具有操作方便灵活，五防联锁完善可靠，安装简单方便，运行安全稳定，可扩展等特点。

The shell of XGN15-12 ring network switch cabinet is made of aluminum coated zinc plate, galvanized plate or cold rolled plate by CNC machining, and the panel is sprayed with plastic. The switchgear is composed of four compartments isolated from each other, namely, a bus bar room, a switch body, a cable room, an operating mechanism and a control room.

The pressure relief channel is set at the back of the cabinet, the cabinet structure is reasonable, compact and applicable, the size is small, the operation is convenient and flexible, the five anti-interlock is perfect and reliable, the installation is simple and convenient, the operation is safe and stable, and the operation is extensible.

低压抽出式开关柜

GCS

GCS low-voltage draw-out
switchgear

| 产品概述 Product overview

GCS 型低压抽出式开关柜是由国家电力工业部、机械工业部根据行业主管部门、广大电力用户及设计单位的要求设计研制出的符合国情、具有较高技术性指标、能适应电力市场发展需要并可与现有引进产品竞争的抽出式开关柜，受到生产制造单位和电力使用部门的重视和肯定。

适用于发电厂、变电所、石油化工部门、工矿企业、冶金纺织、高层建筑等自动化程度高，要求与计算机接口的场所。作为三相交流频率为 50Hz、额定工作电压为 400V，额定工作电流至 4000A 及以下的发、供电系统中的配电、电动机集中控制、无功功率补偿使用的低压成套配套装置。

防护等级达 IP40。

符合国家标准 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》、JB/T9661《低压抽出式成套开关设备》、国际标准 IEC439-1《低压成套开关设备和控制设备》。

GCS type low-voltage drawout switchgear is a drawout switchgear designed and developed by the Ministry of Electric Power Industry and the Ministry of Machinery Industry according to the requirements of the competent authorities of the industry, the majority of power users and design units, which meets the national conditions, has higher technical performance indicators, can adapt to the development needs of the power market and can compete with the existing imported products. It is valued and affirmed by the production and manufacturing units and the power use departments.

It is suitable for power plants, substations, petrochemical departments, industrial and mining enterprises, metallurgical textile, high-rise buildings and other places with high degree of automation and require computer interface. As a three-phase AC frequency of 50Hz, rated operating voltage of 400V, rated operating current to 4000A and below the power supply system in the distribution, motor centralized control, reactive power compensation for the use of low-voltage complete sets of equipment.

Protection level up to IP40.

In line with the national standard GB7251.1 "Low-voltage switchgear and control equipment Part I: Type test and partial type test equipment", JB/T9661 "low-voltage extraction switchgear", international standard IEC439-1 "low-voltage switchgear and control equipment".

| 产品特点 Product characteristics

柜体结构由 KS 型材（也可采用 KB 型材）组装而成，标准模数为 20mm，柜体经酸洗磷化后静电喷涂。内部隔板、抽屉镀锌钝化处理。各功能室相互隔离，其隔室分为功能单元室、母线室和电缆室。各室的作用相对独立，能防止触及临近功能单元带电部件，能限制故障的扩大。

The cabinet structure is assembled by KS profiles (KB profiles can also be used), the standard modulus is 20mm, and the cabinet is electrostatic sprayed after pickling and phosphating. Internal partition, drawer galvanized passivation treatment. Each function room is isolated from each other, and its compartment is divided into function unit room, bus bar room and cable room. The function of each chamber is relatively independent, which can prevent the live parts of the adjacent functional unit from being touched, and can limit the expansion of the fault.

交流金属封闭环网开关设备

GGD

GGD Low voltage switchgear



| 产品概述 Product overview

GGD 型交流低压配电柜适用于发电厂、变电所、石油化工部门、工矿企业、高层建筑等低压配电系统的动力配电和电动机控制中心、电容补偿等电力用户的交流频率 50Hz、额定工作电压 380V、额定工作电流至 3150A 的配电系统，作为动力，照明及配电设备的电能转换、分配和控制之用。

GGD 型交流低压配电柜是能源部以促进我国低压配电行业技术进步，加速低压配电成套开关设备的更新换代为宗旨而设计的低压配电屏。产品具有分断能力高、动热稳定性好、实用性强等特点。

GGD type AC low-voltage distribution cabinet is suitable for power distribution of power distribution and motor control center, capacitor compensation and other low-voltage distribution systems of power plants, substations, petrochemical departments, industrial and mining enterprises, high-rise buildings, etc. Ac frequency 50Hz, rated working voltage 380V, rated working current to 3150A distribution system, as a power, For the conversion, distribution and control of electrical energy in lighting and distribution equipment.

GGD AC low-voltage power distribution cabinet is a low-voltage power distribution panel designed by the Ministry of Energy to promote the technical progress of China's low-voltage power distribution industry and accelerate the replacement of low-voltage power distribution complete sets of switchgear. The product has the characteristics of high breaking capacity, good dynamic and thermal stability, and strong practicability.

| 功能单元 Functional unit

GGD 型交流低压配电柜采用通用柜配形式，构架采用 8MF 冷弯型钢局部焊接组装而成，并有 20 模的安装孔，通用系数高。GGD 型交流低压配电柜充分考虑到了柜体运行中的散热问题，在柜体上、下端均有不同数量的散热槽孔使密封的柜体自上而下形成一个自然通风道，达到散热的目的。

装有电气元件的仪表门用多股铜软线与构架相连，柜内的安装件与构架间用滚花螺钉连接，整柜构成完整的接地保护电路。

柜体表面采用静电喷塑工艺，附着力强，质感好，整柜呈亚光色调，避免了炫目效应。

柜体的防护等级为 IP30。

GGD type AC low-voltage distribution cabinet adopts the form of general cabinet, the frame adopts 8MF cold-formed steel partial welding assembly, and has 20 mold installation holes, high general coefficient. GGD AC low-voltage power distribution cabinet fully takes into account the heat dissipation problem in the operation of the cabinet, and there are different numbers of heat dissipation slots on the upper and lower ends of the cabinet to form a natural ventilation channel from top to bottom of the sealed cabinet to achieve the purpose of heat dissipation.

The instrument door equipped with electrical components is connected to the frame with multiple strands of copper flexible wire, and the installation parts in the cabinet are connected to the frame with knurled screws. The whole cabinet constitutes a complete grounding protection circuit.

The surface of the cabinet adopts electrostatic spraying process, strong adhesion, good texture, and the whole cabinet is matte color to avoid dazzling effect.

The protection class of the cabinet is IP30.

低压抽出式开关柜

MNS

MNS low pressure draw-out switchgear



| 产品概述 Product overview

MNS 型低压成套开关设备 (以下简称设备) 是在进口开关柜的基础上设计和研制的产品。适用于交流 50 (60) Hz 额定工作电压 660V 及以下的系统，用于发电、输电、配电、电能转换和电能消耗设备的控制。符合国家标准 GB7251-1 《低压成套开关设备和控制设备》、JB/T9661 《低压抽出式成套开关设备》及国际标准 IEC439。本装置可以组成不同方案的柜架结构和抽屉单元，采用了高强度的阻燃性工程塑料组件，有效地加强了防护安全性能，抽屉单元具有体积小、功能强、互换性高、更换维护方便、接触可靠等特点。

MNS type low-voltage switchgear (hereinafter referred to as equipment) is a product designed and developed on the basis of imported switchgear. Suitable for AC 50 (60) Hz rated operating voltage 660V and below the system, for power generation, transmission, distribution, power conversion and power consumption equipment control. In line with the national standard GB7251-1 "Low-voltage switchgear and control equipment", JB/T9661 "low-voltage extraction switchgear" and the international standard IEC439. The device can be composed of cabinet structure and drawer unit of different schemes, and adopts high-strength flame-retardant engineering plastic components to effectively strengthen the protection and safety performance. The drawer unit has the characteristics of small size, strong function, high interchangeability, easy replacement and maintenance, reliable contact and so on.

| 产品特点 Product characteristics

装置基本框架为 C 型材组合式结构，框架的全部结构件都经过镀锌处理或敷铝锌板制作。通过自攻锁紧螺钉 8.8 级六角螺钉紧固互相连接成基本框架，再按方案变化需要，加上相应的门、封板、隔板、安装支架，以及母线、功能单元等零部件，组成一台完整的装置，装置内零部件尺寸、隔室尺寸，实行模数化 (模数单位 E=25mm)。柜体防护等级 IP3X-IP4X。

The basic cabinet frame of the device is a C-profile combined structure, and all the structural parts of the cabinet frame are made of galvanized treatment or aluminum zinc plate. A complete device is formed by fastening and connecting the basic frame through self-tapping locking screws 8.8 class hexagon screws, and then adding the corresponding door, sealing plate, partition board, mounting bracket, bus bar, functional unit and other parts according to the requirements of the program. The dimensions of the components and compartments in the device are modular (modular unit E=25mm). Cabinet protection class IP3X-IP4X.

| 抽屉类型 Drawer type

分五种标准尺寸，都是以 8E (200mm) 高度为基准，它们分别为：

There are five standard sizes, all based on 8E (200mm) height, which are respectively:

8E/4 : 8E/2, 8E, 16E 和 24E 8E/4 : 8E/2, 8E, 16E and 24E	8E: 在 8E (200mm) 高度空间组装 1 个抽屉单元 8E: Assemble 1 drawer unit in 8E (200mm) height space
8E/4 : 在 8E (200mm) 高度空间组装 4 个抽屉单元 8E/4: Assemble 4 drawer units in 8E (200mm) height space	16E : 在 16E (400mm) 高度空间组装 1 个抽屉单元 16E: Assemble 1 drawer unit in a 16E (400mm) height space
8E/2 : 在 8E (200mm) 高度空间组装 2 个抽屉单元 8E/2: Assemble 2 drawer units in 8E (200mm) height space	24E : 在 24E (600mm) 高度空间组装 1 个抽屉单元 24E: Assemble 1 drawer unit in 24E (600mm) height space

单元回路额定电流 400A 以下。其中 8E/4 和 8E/2 两种抽屉的结构是用阻燃型塑料和铝合金型材组成。五种抽屉单元可在一个柜体中作单一组装，也可混合组装。功能单元隔室总高度为 72E(1800mm)。

Unit circuit rated current below 400A. The structure of the 8E/4 and 8E/2 drawers is composed of flame-retardant plastic and aluminum alloy profiles. The five drawer units can be assembled in a single cabinet or in a combination. The total height of the functional unit compartments is 72E(1800mm).

气体绝缘金属封闭开关设备

SRM16-12

SRM16-12 Gas insulated metal enclosed switchgear



| 产品概述 Product overview

SRM16-12 气体绝缘金属封闭开关设备系三相交流 50Hz, SF6 气体全绝缘全密封的金属封闭开关设备。

采用模块化设计, 以真空断路器、负荷开关、负荷开关-熔断器组合电器、隔离开关等主开关作为功能单元, 置于密封气箱内构成各充气隔室单元, 其母线通过母线联结器可以在左右方向任意扩展, 进出线采用插接式电缆。不受环境影响, 安全性高, 免维护, 可靠性强。

广泛应用于工业及民用环网配电系统及供电末端, 特别适用于小型二次变电站、工矿企业开闭所、城市住宅小区、机场、铁路等场所。

The SRM16-12 gas insulated metal enclosed switchgear is a three-phase AC 50Hz, SF6 gas fully insulated and fully sealed metal enclosed switchgear.

The main switch, such as vacuum circuit breaker, load switch, load switch-fuse combination electrical appliance and isolation switch, is used as the functional unit in the sealed air box to form the inflatable compartment unit. The busbar can be arbitrarily extended in the left and right directions through the busbar coupling, and the inlet and outlet cables are plug-in cables. Not affected by the environment, high safety, maintenance-free, strong reliability.

Widely used in industrial and civil ring network distribution system and power supply end, especially suitable for small secondary distribution power stations, industrial and mining enterprises, urban residential areas, airports, railways and other places.

| 型号及含义 Model and meaning

SRM	16	12	□	□	-	□
气体绝缘金属封闭开关 Gas insulated metal enclosed switch	设计序号 Design sequence number	额定电压 (kV) Rated voltage (kV)	G为固定型,K为可扩展, D为电缆分支箱方案 G is the fixed type, K is the expandable type, and D is the cable branch box scheme	标准模块代号 Standard module code		扩展方式 Extended mode

| 使用条件

- 周围空气温度: -40℃ ~+40℃, 日温差: 不超过 35℃;
- 海拔高度不超过 4000m (当设备运行海拔高度超出 1000m 时, 请特别注明!);
- 周围空气不受腐蚀性气体和可燃、爆气体的污染, 安装场所无剧烈冲击; 污秽等级不超过 GB/T5582 中规定的 III 级;
- 抗震烈度: 8 度;
- 在二次系统中感应的电磁干扰的幅值不超过 1.6kV;
- 特殊使用条件: 如不同于以上使用条件时, 用户需与制造厂协商, 取得一致意见。

- Ambient air temperature: -40℃ ~+40℃, daily temperature difference: not more than 35℃;
- The altitude does not exceed 4000m (when the altitude of the equipment exceeds 1000m, please specify!);
- The surrounding air is not polluted by corrosive gases and combustible and explosive gases, and the installation site is free from violent impact; The pollution level shall not exceed the III level specified in GB/T5582;
- Seismic intensity: 8 degrees;
- The amplitude of electromagnetic interference induced in the secondary system does not exceed 1.6kV;
- Special conditions of use: If different from the above conditions of use, the user needs to negotiate with the manufacturer to reach an agreement.

单元式交流金属封闭环网开关设备

HXGN15-12

HXGN15-12 Unit AC metal closed ring switchgear



| 产品概述 Product overview

HXGN15-12 型单元式交流金属封闭环网开关设备 (以下简称环网柜) 是我们在引进技术并按照农电及城网改造之要求、研制成功的新一代高压电器产品。各项技术性能指标全 IEC62271-200:2003 和 GB3906 标准。

HXGN15-12 型单元式交流金属封闭环网开关设备, 适用于交 50Hz、12kV 的电力网络中, 作为电能的接受和分配之用。柜内主开关为 SF6 开关。

HXGN15-12 unit type AC metal closed ring switchgear (hereinafter referred to as ring cabinet) is a new generation of high-voltage electrical products that we have successfully developed in accordance with the requirements of agricultural power and urban network transformation. All technical performance indicators IEC62271-200:2003 and GB3906 standards.

HXGN15-12 unit type AC metal closed loop switchgear, suitable for 50Hz, 12kV power network, as the acceptance and distribution of electric energy. The main switch in the cabinet is SF6.

| 型号及含义 Model and meaning

HX	G	N	15	-	12	SF6
箱式环网柜 Box-type ring network cabinet	固定式 stationary	户内 indoor	设计序号 Design sequence number		额定电压 (kV) Rated voltage (kV)	柜内主开关为 SF6 开关 The main switch in the cabinet is SF6

| 使用条件

- 环境温度: 上限 +40℃, 下限 -25℃;
- 海拔高度: 海拔高度不超过 2000m;
- 相对湿度: 日平均值不大于 95%; 月平均值不大于 90%;
- 周围环境: 周围空气不受腐蚀性气体或可燃性气体、水蒸气等明显污染;
- 无经常性的剧烈震动。

- Ambient temperature: upper limit +40℃, lower limit -25℃;
- Altitude: no more than 2000m above sea level;
- Relative temperature: the daily average is not more than 95%; The monthly average is not more than 90%;
- Surrounding environment: the surrounding air is not significantly polluted by corrosive gases or flammable gases, water vapor, etc.;
- No frequent violent vibration.

发电专用箱变

新能源

New energy power generation
special box change



| 产品概述 Product overview

新能源发电专用箱变，是一种集高压开关设备、变压器器身、保护熔断器集中放在油箱中，与低压开关柜及相应辅助配套设备于一体的高压 / 低压预装式变电站（以下称变电站）。它是一种将来自新能源并网逆变器（或交流发电机）电压经过升压变压器升高到 10kV 或 35kV 后，经过 10kV 或 35kV 线路向上输出电能的专用升压设备，是新能源发电系统的理想配套设备。

The special box for new energy power generation is a high-voltage/low-voltage preassembled substation (hereinafter referred to as substation) which integrates high-voltage switchgear, transformer body and protective fuse in the oil tank and integrates low-voltage switchgear and corresponding auxiliary equipment. It is a new energy grid-connected inverter (or alternator) voltage after the boost transformer rises to 10kV or 35kV, through the 10kV or 35kV line upward output of power dedicated booster equipment, is the ideal supporting equipment for new energy power generation system.

| 型号及含义 Model and meaning

Z	G	S			-		■		-		/	
组合式变压器 Composite transformer	共箱式 Common box type	三相 Three phase	绕组型式 F 分列式 ◆ 无分列式不注明 Winding type F fractions ◆ None fractions are not indicated	性能水平代号 Performance level code		高压接线方案 Z 终端 ◆ H 环网 High voltage connection scheme Z terminal ◆ H ring network	新能源 G: 光伏 F: 风电 New energy G: photovoltaic F: wind power	额定容量 (kVA) Rated capacity (kVA)		电压等级 (kV) Voltage level (kV)		

| 产品特点 Product characteristics

- 变电站结构紧凑、占地面积小，散热器外置，散热效果更好。
- 变电站采用新型变压器系列技术、结构合理、安全可靠。
- 变压器油作为 10kV 或 35kV 侧高压元件的绝缘介质，大幅减小了安全距离。
- 油箱采用全封闭结构，使油和大气全面隔绝，大大降低了氧化过程和水气的介入，提高了系统设备的稳定性、可靠性和安全性，同时，使用片式散热器，拆装方便、维护简单。
- 箱体采用特殊喷丸工艺处理，具有良好的防腐、防暴晒能力，能有效抵御风沙的侵蚀。
- 低压侧采用国内最新智能型断路器、塑壳空气开关，分断能力高，保护性能好。
- 变压器油箱可装设带通讯接口的压力表及温度计，负荷开关可加装行程开关，实现对变压器进行远程监控、操作及维护。
- 箱体采用全密封设计，防护等级，高低压室可达到 IP54，变压器本体可达到 IP68。

- Substation compact structure, small footprint, radiator external, better cooling effect.
- The substation adopts new transformer series technology, reasonable structure, safe and reliable.
- Transformer oil acts as an insulating medium for high voltage elements on the 10kV or 35kV side, greatly reducing the safety distance.
- The tank adopts a completely closed structure, so that the oil and atmosphere are completely isolated, greatly reducing the oxidation process and the involvement of water and gas, improving the stability, reliability and safety of the system equipment, at the same time, the use of chip radiator, easy disassembly and maintenance.
- The box is treated with special shot peening process, which has good anti-corrosion and anti-sun ability, and can effectively resist the erosion of wind sand.
- Low voltage side adopts the latest domestic intelligent circuit breaker, plastic-case air switch, high breaking capacity, good protection performance.
- The transformer tank can be equipped with a pressure gauge and thermometer with communication interface, and the load switch can be equipped with a travel switch to realize remote monitoring, operation and maintenance of the transformer.
- The box adopts fully sealed design, the protection level, the high and low pressure chamber can reach IP54, the transformer body can reach IP68.

变电站

华式箱式

Chinese box-type
substation



| 产品特点 Product characteristics

箱变分为高压室、低压室、变压器三部分组成，华式结构的箱变，主要应用于新能源发电的升压箱变，结构的特点和传统箱变的区别在于变压器部分置于箱变壳体外部，有效解决变压器散热问题，通过自然气候迅速带走变压器本体产生的热量，变压器通过侧出线的方式与箱变外壳紧密连接，通过箱变壳体中隔板将箱变分为高压室和低压室，是新能源发电的理想产品。

Box transformer is divided into high-voltage chamber, low-voltage chamber, transformer three parts, the Chinese structure of the box transformer, mainly used in new energy power generation of the upward pressure box transformer, the characteristics of the structure and the traditional box transformer difference is that the transformer part is placed outside the box transformer shell, effectively solve the problem of transformer heat dissipation, through the natural climate quickly take away the heat generated by the transformer body. The transformer is closely connected with the transformer shell through the way of side outlet, and the transformer is divided into high voltage chamber and low voltage chamber through the partition board of the transformer shell, which is an ideal product for new energy power generation.

| 产品电气特点 Product electrical characteristics

华式箱变高压侧可采用真空断路器或负荷开关 + 熔断器（组合电器）技术方案。组合电器结构其电气特点是当任意一相熔断器熔断后都会保证负荷开关跳闸切断电源，更换熔断器后主开关才能合闸。

高压侧采用的真空断路器或负荷开关 + 熔断器（组合电器）均设置机械联锁防止误操作，真空断路器或负荷开关 + 熔断器（组合电器）均设置信号传输信号，便于后台实时监控其运行状态和实现远程控制功能。

Vacuum circuit breaker or load switch + fuse (combined electrical appliance) technical solution can be used on the high voltage side of Huashi box. The electrical characteristics of the combined electrical structure is that when any phase fuse is blown, the load switch will be guaranteed to trip and cut off the power supply, and the main switch can be closed after replacing the fuse.

The vacuum circuit breaker or load switch + fuse (combination electrical appliance) used in the high voltage side is set up mechanical interlock to prevent misoperation, and the vacuum circuit breaker or load switch + fuse (combination electrical appliance) is set up signal transmission signal to facilitate the background real-time monitoring of its operating status and remote control function.

| 防护等级 Class of protection

- 由于此产品的运行环境相对比较恶劣，防风沙、隔热和散热的要求较高，防护等级要求必须满足运行要求，有效保护箱变内部元器件，延长元器件的使用寿命。
- 变压器本体防护等级为 IP68
- 箱变外壳的防护等级不低于 IP54

• Because the operating environment of this product is relatively harsh, the requirements of sand prevention, heat insulation and heat dissipation are high, the protection level requirements must meet the operating requirements, effectively protect the box into internal components, and extend the service life of components.

- The transformer body protection class is IP68
- The protection level of the case is not less than IP54

储能变流升压一体机

欧式

European-style energy storage converter booster machine



| 产品概述 Product overview

欧式储能变流升压一体机是将太阳能 / 风能等绿色能源暂时储存在电池系统中，必要时经储能变流器逆变送出至三相交流升压变压器。可有效解决风电 / 光伏能源的不稳定性和周期性问题的。

一体机由储能变流器 (PCS)、母线桥架、低压室 (通讯 + 动力配电)、干式变压器、高压室 (配套真空负荷开关 / 断路器) 及一体机外壳构成。

The European type energy storage converter is the temporary storage of green energy such as solar/wind energy in the battery system, if necessary, through the energy storage converter inverter sent to the three-phase AC boost transformer. It can effectively solve the instability and periodicity of wind power/photovoltaic energy.

The integrated machine is composed of energy storage converter (PCS), bus bridge, low voltage chamber (communication + power distribution), dry transformer, high voltage chamber (supporting vacuum load switch/circuit breaker) and the integrated machine shell.

| 型号及含义 Model and meaning

C	YB	T	1	-		-	PWS
储能 Stored energy	预装式变电站 (欧式) Pre-installed substation (European)	一体式 integrated	迭代序号 Iteration sequence number	-	额定功率 (kW) Rated power (kW)	-	电源系统 Power supply system

| 产品特点 Product characteristics

- 一体机体积小、结构紧凑，集成度高，占地面积小。
- 在工厂内完成制作、组装、配线、调试等工作，以箱房形式整体运输至工程现场。
- 安装简单，节省基建费用，缩短施工周期，供电迅速，设备维修简单，无须专人值守。
- 内部采用干式变压器，运行稳定免维护，防火阻燃，满足更高消防要求。
- 箱体采用特殊工艺处理，具有良好的防腐、防暴晒能力，能有效抵御风沙的侵蚀。
- 高压采用真空负荷开关 / 断路器，可远程操控，保护全面。
- Small size, compact structure, high integration, small footprint.
- Complete production, assembly, wiring, debugging and other work in the factory, and transport to the project site in the form of a box.
- Simple installation, save capital costs, shorten construction period, fast power supply, simple equipment maintenance, no need to be on duty.
- Internal use of dry transformer, stable operation maintenance-free, fire retardant, to meet higher fire requirements.
- The box adopts special process treatment, has good anti-corrosion, anti-exposure ability, and can effectively resist the erosion of wind sand.
- High voltage vacuum load switch/circuit breaker, remote control, comprehensive protection.

储能变流升压一体机

美式

American energy storage converter booster machine



| 产品概述 Product overview

美式储能变流升压一体机是将太阳能 / 风能等绿色能源暂时储存在电池系统中，必要时经储能变流器逆变送出至三相交流升压变压器。可有效解决风电 / 光伏能源的不稳定性和周期性问题的。

一体机由储能变流器 (PCS)、母线桥架、低压室 (通讯 + 动力配电)、油浸式变压器 (含油浸式负荷开关 + 熔断器)、高压电缆室及一体机外壳构成。

American energy storage converter booster is the temporary storage of green energy such as solar/wind energy in the battery system, if necessary, through the energy storage converter inverter sent to the three-phase AC booster transformer. It can effectively solve the instability and periodicity of wind power/photovoltaic energy.

The machine is composed of an energy storage converter (PCS), a bus bridge, a low-voltage chamber (communication + power distribution), an oil-immersed transformer (oil-immersed load switch + fuse), a high-voltage cable room and a shell of the machine.

| 型号及含义 Model and meaning

C	M	T	1	-		-	PWS
储能 Stored energy	组合式变电站 (美式) Modular Substation (American)	一体式 integrated	迭代序号 Iteration sequence number	-	额定功率 (kW) Rated power (kW)	-	电源系统 Power supply system

| 产品特点 Product characteristics

- 一体机体积小、结构紧凑，集成度高，占地面积小。
- 在工厂内完成制作、组装、配线、调试等工作，以箱房形式整体运输至工程现场。
- 安装简单，节省基建费用，缩短施工周期，供电迅速，设备维修简单，无须专人值守。
- 采用油浸式变压器，性价比高，散热好，噪音小。
- 箱体采用特殊工艺处理，具有良好的防腐、防暴晒能力，能有效抵御风沙的侵蚀。
- 高压采用油浸式负荷开关和全范围熔断器保护方案，安全可靠，维护方便。
- Small size, compact structure, high integration, small footprint.
- Complete production, assembly, wiring, debugging and other work in the factory, and transport to the project site in the form of a box.
- Simple installation, save capital costs, shorten construction period, fast power supply, simple equipment maintenance, no need to be on duty.
- Oil immersed transformer, cost-effective, good heat dissipation, low noise.
- The box adopts special process treatment, has good anti-corrosion, anti-exposure ability, and can effectively resist the erosion of wind sand.
- High pressure oil immersed load switch and full range fuse protection scheme, safe and reliable, easy to maintain.

储能变流升压一体机

华式

Chinese type energy storage
converter booster machine



| 产品概述 Product overview

华式储能变流升压一体机是将太阳能 / 风能等绿色能源暂时储存在电池系统中，必要时经储能变流器逆变送出至三相交流升压变压器。可有效解决风电 / 光伏能源的不稳定性和周期性 issues。

一体机由储能变流器 (PCS)、母线桥架、低压室（通讯 + 动力配电）、油浸式变压器、高压室（配套真空负荷开关 / 断路器）及一体机外壳构成。

The Chinese type energy storage converter is the temporary storage of green energy such as solar/wind energy in the battery system, if necessary, through the energy storage converter inverter sent to the three-phase AC boost transformer. It can effectively solve the instability and periodicity of wind power/photovoltaic energy.

The integrated machine consists of an energy storage converter (PCS), a bus bridge, a low-voltage chamber (communication + power distribution), an oil-immersed transformer, a high-voltage chamber (supporting a vacuum load switch/circuit breaker) and an integrated shell.

| 型号及含义 Model and meaning

C	H	T	1	-		-	PWS
储能 Stored energy	预装式变电站（华式） Pre-installed substation (Chinese type)	一体式 integrated	迭代序号 Iteration sequence number		额定功率 (kW) Rated power (kW)		电源系统 Power supply system

| 产品特点 Product characteristics

- 一体机体积小、结构紧凑，集成度高，占地面积小。
- 在工厂内完成制作、组装、配线、调试等工作，以箱房形式整体运输至工程现场。
- 安装简单，节省基建费用，缩短施工周期，供电迅速，设备维修简单，无须专人值守。
- 采用油浸式变压器，性价比高，散热好，噪音小。
- 箱体采用特殊工艺处理，具有良好的防腐、防暴晒能力，能有效抵御风沙的侵蚀。
- 高压采用真空负荷开关 / 断路器，可远程操控，保护全面。
- Small size, compact structure, high integration, small footprint.
- Complete production, assembly, wiring, debugging and other work in the factory, and transport to the project site in the form of a box.
- Simple installation, save capital costs, shorten construction period, fast power supply, simple equipment maintenance, no need to be on duty.
- Oil immersed transformer, cost-effective, good heat dissipation, low noise.
- The box adopts special process treatment, has good anti-corrosion, anti-exposure ability, and can effectively resist the erosion of wind sand.
- High voltage vacuum load switch/circuit breaker, remote control, comprehensive protection.

储能变流升压

一体舱

Energy storage variable current
booster integrated chamber



| 产品概述 Product overview

储能变流升压一体舱包含变流系统、变电系统、光伏系统和充电系统。在储能电池、光伏和电网间进行能量转换。在用电低谷期可将市电、光伏电能储存至电池单元，在用电高峰期或者电网失电情况下，可作为供电电源，有效解决风光等新能源发电的波动性、时段性，提高可再生能源的利用效率，对电网系统削峰填谷。同时，一体舱集成了汽车充电桩功能，可为新能源汽车提供稳定、高效、可靠的充电电源。

The energy storage converter and booster integrated chamber includes a converter system, a power transformation system, a photovoltaic system and a charging system. Energy conversion between energy storage batteries, photovoltaics and the grid. During the low period of electricity consumption, the mains and photovoltaic energy can be stored to the battery unit, and during the peak period of electricity consumption or the power grid loss, it can be used as a power supply to effectively solve the volatility and period of new energy generation such as scenery, improve the utilization efficiency of renewable energy, and cut the peak of the power grid system.

Fill in the valley. At the same time, the integrated cabin integrates the function of car charging pile, which can provide stable, efficient and reliable charging power for new energy vehicles.

| 产品特点 Product characteristics

储能变流升压一体舱主要由高低压单元、就地监测单元、储能双向变流单元、门禁单元、散热单元、消防单元和照明单元构成。产品融合直流逆变和交流升压功能，集成储能系统、工业化设计理念，采用标准 10 尺 / 20 尺预制舱结构，外形美观、安装方便、调试简单。独特的设计适用于海拔高、严寒、海边、沙漠等复

杂恶劣环境。产品采用电芯级智能温控，有效提高系统效率和电池循环寿命，通过模块化设计，能自动均衡管理，有利于系统扩容和控制。产品配置多重状态监测，分级联动设计可以全面保障电池系统安全。

PACK 级消防设计能在电芯热失控初级阶段及时预警，精确定位故障。

Energy storage converter booster integrated chamber is mainly composed of high and low pressure unit, local monitoring unit, energy storage bidirectional converter unit, access control unit, heat dissipation unit, fire unit and lighting unit. The product integrates DC inverter and AC boost function, integrates energy storage system, industrial design concept, adopts standard 10 feet / 20 feet prefabricated cabin structure, beautiful appearance, easy installation and simple debugging. The unique design is suitable for sea elevation, cold, seaside, desert and so on.

Mixed harsh environment. The product adopts electric core grade intelligent temperature control to effectively improve system efficiency and battery cycle life. Through modular design, it can automatically balance management, which is conducive to system expansion and control. Product configuration multiple condition monitoring, hierarchical linkage design can fully ensure the safety of the battery system.

The PACK fire protection design can provide timely warning and accurate fault location in the initial stage of thermal runaway of the battery cell.

一体化箱式变电站

逆变升压

Inverter boost integrated box-type substation



| 产品概述 Product overview

逆变升压一体化箱式变电站，属于变电站领域，用以解决光伏发电系统中直流逆变和交流升压需要使用两套设备所带来的施工量大，电能损耗大的缺陷。逆变升压一体化箱式变电站包括低压部分，高压部分和变压部分，其特征在于，低压部分和高压部分前后排列，变压部分位于低压部分和高压部分的左或右侧；低压部分，将光伏发电系统产生的直流电能进行汇集并逆变为交流电；变压部分，将低压交流电转变为高压交流电；高压部分，将高压交流电设置保护并进行计量。逆变升压一体化箱式变电站用于将光伏组件所产生的电能逆变升压为稳定的可利用电能。

Inverter boost integrated box substation, belongs to the field of substation, to solve the photovoltaic power generation system in the DC inverter and AC boost need to use two sets of equipment caused by large construction volume, power loss defects. Inverter booster integrated box substation includes a low-voltage part, a high-voltage part and a transformer part, which is characterized in that the low-voltage part and the high-pressure part are arranged before and after, and the transformer part is located on the left or right of the low-voltage part and the high-pressure part; In the low-voltage part, the direct current generated by the photovoltaic power generation system is collected and inverted into alternating current; Transformer part, the low voltage alternating current into high voltage alternating current; For the high voltage part, the high voltage AC is protected and measured. Inverter boost integrated box substation is used to invert and boost the electric energy generated by photovoltaic modules into stable utilizable electric energy.

变电站

预制舱

Precast substation



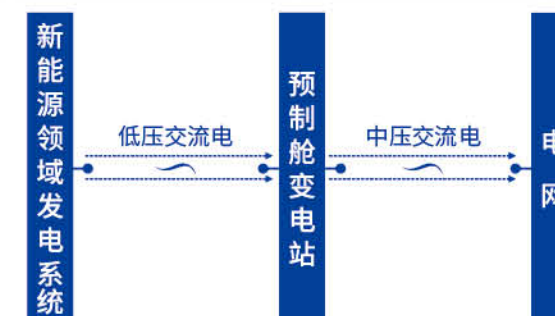
| 产品概述 Product overview

预制舱变电站主要功能是将新能源领域发电系统产生的低压交流电转换成中压交流电，并将电能馈入电网。

预制舱变电站是将低压柜、变压器、环网柜、辅助电源等设备集成到一个钢结构集装箱中，为地面电站中压并网场景提供高度集成化的变配电解决方案。

The main function of the precast substation is to convert the low-voltage alternating current generated by the power generation system in the field of new energy into medium-voltage alternating current, and feed the electric energy into the grid.

The precast compartment substation integrates low-voltage cabinet, transformer, ring network cabinet, auxiliary power supply and other equipment into a steel structure container to provide a highly integrated transformer and distribution solution for the medium-voltage grid-connected scenario of the ground power station.



| 产品特点 Product characteristics

• 智能:

1. 实时检测低压柜、变压器和环网柜的工作状态
2. 在线检测电力参数，电流和电压的检测精度高达 0.5 级
3. 支持远程控制低压柜和环网柜的总断路器，以及远程查询箱式变电站的运行信息

• 简单:

1. 内部设备已预制和安装
2. 紧凑的 20ft 集装箱结构，适用于各种运输条件，便于安装

• 可靠:

1. 结构设计牢固可靠
2. 低压室和中压室防护等级为 IP54

• 快速部署:

1. 能够实现快速部署
2. 现场仅需完成低压进线和中压出线操作

• Smart:

1. Real-time detection of low-voltage cabinet, transformer and ring network cabinet working status
2. Online detection of power parameters, current and voltage detection accuracy of up to 0.5
3. Support remote control of the low-voltage cabinet and the circuit breaker of the ring network cabinet, as well as remote query of the operation information of the box-type substation

• Simple:

1. The internal equipment has been prefabricated and installed
2. Compact 20ft container structure, suitable for various transportation conditions, easy to install

• Reliable:

1. Solid and reliable structure design
2. The protection grade of low pressure chamber and medium pressure chamber is IP54

• Rapid deployment:

1. Rapid deployment
2. Perform only low-voltage cable intake and medium-voltage cable outgoing operations onsite

PERFORMANCE
CASE

鑫鸿·业绩案例



项目名称 / PROJECT NAME	
新疆石河子大学	凤阳县府城镇综合为民服务中心
内蒙古商都县民宇水泥二期	上海航天局第八 00 研究所 101 项目
恒大集团南京分公司	徐州第二人民医院体检大楼改造项目
江苏吉祥狮实业有限公司	宿迁迅达塑业有限公司
固原市东南新区	乌兰察布电业局察哈尔供电分局
新疆库尔勒雅戈尔棉纺织有限公司	宿州市中医院
中石化马鞍山石油分公司	宿州埇桥开发区污水处理厂
睢宁县天缘农电技术服务有限公司	新疆财经大学
南充市金原大地小区二期配电工程	新沂市公安局
南充市南门坝二期还房工程	江苏苏博瑞光电设备科技有限公司
新沂市经济适用房发展中心	安徽国帧环保科技有限公司
新沂市金色名园小区配电工程	新沂市高等职业技术学院
四川南充市东方国际大酒店	江苏世纪天虹纺织有限公司

项目名称 / PROJECT NAME	
新沂市祥瑞家园二期	燕山大学轧制设备及成套技术研究中心
商丘恒泰电力工程安装有限公司	新疆喀什维稳指挥部
阜阳城建开发公司翠玉江南二期	秦皇岛龙城华府小区
阜南双碑棚户区改造安置区	秦皇岛福电实业集团有限公司
阜阳第二人民医院内科门诊大楼	山东冠骏清洁材料科技有限公司
甘肃中石油昆仑燃气赵家沟加气站	临沂石门铁矿
甘肃凯立能源科技有限公司	秦皇岛煤炭招待所
鲁电集团	新疆阿图什市职业技能教育培训中心
四川南充鑫苑小区用电工程	新疆喀什叶成管理中心
四川南充市第五人民医院	徐州统一企业有限公司光伏发电项目
国华能源科技有限公司 2013 年第一批风电	内蒙乌兰察布市天佑房地产
内蒙古乌兰察布市富城苑小区	乌兰察布浩通洗煤厂
乌兰察布厚德大酒店	