

中国温州固升电气有限公司

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A PROVIDER OF INTEGRATED SOLUTIONS FOR SMART POWER

智慧电力一体化解决方案供应商

中国温州固升电气有限公司

WENZHOU CHINA · GOWSEN ELECTRIC CO.,LTD



精检细查 严格质检 METICULOUS INSPECTION STRICT QUALITY CONTROL

固升电气在生产上，配备现代化加工、自动化组装等设备，以智能化、标准化流程提升效率，减少操作偏差，实现生产全程可控可追溯。质检上，构建全链条检验体系：原材料入厂严筛，生产关键工序设点管控，成品出厂全项检测，确保产品符合标准与客户需求。

我们持续升级设备、完善检验，以细节赋能品质，打造高效优质产品，助力行业高质量发展。

In production, Gowsen Electric is equipped with modern processing and automatic assembly equipment. It improves efficiency and reduces operational deviations through intelligent and standardized processes, realizing full controllability and traceability throughout production. In quality inspection, the company has established a full-chain inspection system: strict screening of incoming raw materials, control points set at key production processes, and comprehensive testing of finished products before delivery, to ensure products meet standards and customer requirements.

We continuously upgrade equipment and improve inspections, empower quality with details, develop efficient and high-quality products, and support the high-quality development of the industry.

检验报告 INSPECTION REPORT

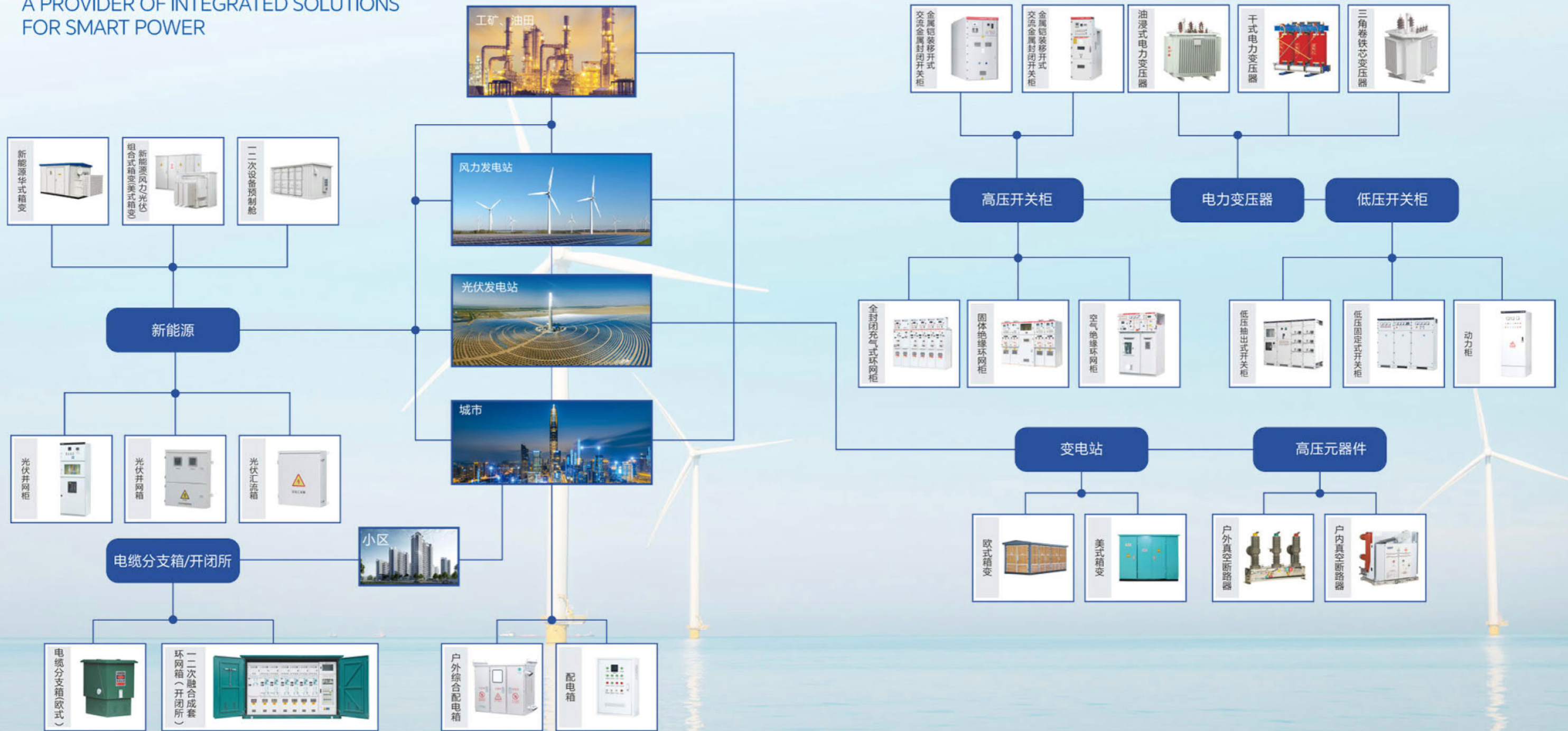
严谨把关、科学检测
以规范标准守护产品可靠与客户信赖

Strict control and scientific testing,
Guarding product reliability and customer trust with standardized standards



智慧电力一体化解决方案供应商

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FOR SMART POWER



箱式变电站系列

Box-type Substation series

- 01 GKG 矿用一般型高压开关柜
GKG General High-Voltage Switchgear For Mining Purposes
- 02 GKD 矿用一般型低压开关柜
GKD General Low-Voltage Switchgear For Mining Purposes
- 03 PKD 矿用一般型低压配电箱
PKD Mining General Low-Voltage Distribution Box

箱式变电站系列

Box-type Substation series

- 04 YB □ -12 高低压预装式变电站
YB □ -12 High and Low Voltage Prefabricated Substation
- 05 YB27-12 组合美式预装式变电站
YB27-12 Combined American Prefabricated Substation

分支箱 / 开闭所系列

Branch Box / Distribution Box series

- 06 DFW10-12 欧式电缆分支箱
DFW10-12 European-Style Cable Branch Box
- 07 DFW-12 高压电缆分支箱 (开闭所)
DFW-12 High Voltage Cable Branch Box (Opening And Closing Place)

电力变压器系列

Power Transformer series

- 08 SCB13 环氧树脂浇注干式变压器
SCB13 Epoxy Resin Cast Dry Type Transformer
- 09 S13-M 全密封油浸式电力变压器
S13-M Fully Sealed Oil-Immersed Power Transformer

高压开关柜系列

High-Voltage Switchgear series

- 10 KYN61-40.5 铠装移开式交流金属封闭开关设备
KYN61-40.5 Armored Removable AC Metal-Enclosed Switchgear
- 11 KYN28-12 铠装移开式交流金属封闭开关设备
KYN28-12 Armored Removable AC Metal-Enclosed Switchgear
- 12 HXGN15-12 交流金属封闭环网开关设备
HXGN15-12 AC Metal-Enclosed Ring-Network Switchgear
- 13 HXGN17-12 交流金属封闭开关设备
HXGN17-12 AC Metal-Enclosed Switchgear (Ring Main Unit)
- 14 LDS-12 全绝缘充气式环网开关设备
LDS-12 Full Insulation Inflatable Ring Network Switch Equipment

高压开关柜系列

High-Voltage Switchgear series

- 15 LDS-24 全绝缘充气式环网开关设备
LDS-24 Fully Insulated Gas-Insulated Ring Main Unit
- 16 LDG-12 固体绝缘环网开关设备
LDG-12 Solid Insulation Ring Network Switching Equipment
- 17 LHBXGN-12 环保气体绝缘环网开关设备
LHBXGN-12 Eco-Friendly Gas-Insulated Ring Main Unit
- 18 TBBZ-12 高压并联电容器装置
TBBZ-12 High Voltage Parallel Capacitor Device
- 19 GZDW 直流电源柜
GZDW DC Power Cabinet

低压开关柜系列

Low-Voltage Switchgear series

- 20 MNS 低压抽出式开关柜
MNS Low Voltage Withdrawable Switchgear
- 21 GCS 低压抽出式开关柜
GCS Low Voltage Withdrawable Switchgear
- 22 GCK 低压抽出式开关柜
GCK Low-Voltage Withdrawable Switchgear
- 23 GGD 交流低压配电柜
GGD AC Low-Voltage Distribution Cabinet
- 24 GGJ 低压无功功率补偿装置
GGJ Low Voltage Reactive Power Compensation Device
- 25 GDF 固定分隔式开关柜
GDF Fixed-Section Switchgear

其他高低压产品系列

Other High And Low Voltage Products series

- 26 ZN85-40.5 户内高压真空断路器
ZN85-40.5 Indoor High-Voltage Vacuum Circuit Breaker
- 26 ZN63(VS1)-12 户内高压真空断路器
ZN63(VS1)-12 Indoor High-Voltage Vacuum Circuit Breaker
- 26 ZW32-40.5FG 户外高压真空断路器
ZW32-40.5FG Outdoor High-Voltage Vacuum Circuit Breaker
- 26 ZW32-12 户外高压真空断路器
ZW32-12 Outdoor High-Voltage Vacuum Circuit Breaker

GKG

矿用一般型高压开关柜

GKG General High-Voltage Switchgear For Mining Purposes

产品概述 Product Overview

— GKG 矿用一般型高压真空开关柜 (以下简称开关柜), 标识为: (kA), 适用于煤矿无瓦斯、无粉尘、无爆炸性危险场所及非煤矿山等其它类似的矿井下中央控制室、井底停车场总通风道和主要通风道配电硐室外的供电系统中, 作为三相交流 50Hz 电压 3.3kV、6kV 或 10kV 电气设备的配电保护和控制之用, 亦可经软起动或直接起动井下风机及高压水泵电机等。本开关柜同样适用于地面变电站、冶金和化工等电力系统。

本产品符合 GB/T12173 《矿用一般型电气设备》标准。

— GKG Mining General-Purpose High-Voltage Vacuum Switchgear (hereinafter referred to as switchgear), identified as (kA), is suitable for power supply systems in coal mines without gas, dust, or explosive hazards, as well as in non-coal mines and other similar underground environments, including central control rooms, underground parking area main ventilation roadways, and distribution chambers outside main ventilation roadways. It is designed for distribution protection and control of three-phase AC 50Hz electrical equipment at voltages of 3.3kV, 6kV, or 10kV. It can also be used for soft-start or direct-start applications for underground fans and high-voltage water pump motors. This switchgear is equally applicable to power systems in ground-based substations, metallurgical, chemical, and other industrial settings.

This product complies with the standard GB/T12173 "Mine General Purpose Electrical Equipment".



GKD

矿用一般型低压开关柜

GKD General Low-Voltage Switchgear For Mining Purposes

产品概述 Product Overview

— GKD 矿用一般型低压开关柜 (以下简称开关柜), 标识为: (kA), 适用于煤矿无瓦斯、无粉尘、无爆炸性危险场所及非煤矿山等其它类似的矿井下场所的供电系统中。作为交流 50Hz、电压为 1140V、660V、380V 井下停车场、中央控制室、总进风巷道场所, 三相三线供电系统的动力及 127V 的照明回路用, 本开关柜同样也适用于地面发电厂、变电站和冶金、化工等供电, 三相三线制, 三相四线制 1140V、660V、380V、127V 配电系统中。

本产品符合 GB/T12173 《矿用一般型电气设备》标准。

— GKD Mining General-Purpose Low-Voltage Switchgear (hereinafter referred to as switchgear), identified as (kA), is suitable for power supply systems in coal mines without gas, dust, or explosive hazards, as well as in non-coal mines and other similar underground mining locations. It is designed for use in AC 50Hz power systems with voltages of 1140V, 660V, and 380V in underground parking areas, central control rooms, and main air intake roadways, serving power needs for three-phase three-wire systems and lighting circuits at 127V. This switchgear is also applicable to power distribution systems in ground-based power plants, substations, metallurgical, chemical, and other industrial settings, accommodating three-phase three-wire and three-phase four-wire systems at voltages of 1140V, 660V, 380V, and 127V.

This product complies with the standard GB/T12173 "Mine General Purpose Electrical Equipment".



PKD

矿用一般型低压配电箱

PKD Mining General Low-Voltage Distribution Box

产品概述 Product Overview

- PKD 矿用一般型低压配电箱是户内靠墙安装，箱前接线检修。防护等级达到 IP54，能有效防止粉尘和水进入柜内。
- PKD Mine general type low-voltage distribution box is designed for indoor wall-mounted installation, with wiring and maintenance carried out from the front of the cabinet. It has a protection rating of IP54, which effectively prevents dust and water from entering the cabinet.



YB □ -12

高低压预装式变电站

YB □ -12 High and Low Voltage Prefabricated Substation

产品概述 Product Overview

- 本产品完全符合 GB/T17467《高压 / 低压预装式变电站》标准。适用于城市公共配电、路灯配电、工矿企业、市区建筑、住宅小区、油田码头、宾馆、公园及工地施工等，可实现环网或终端型供电方式。
- This product fully complies with GB/T 17467 "High-voltage/low-voltage prefabricated substations". It is suitable for urban public power distribution, street lighting power distribution, industrial and mining enterprises, urban buildings, residential areas, oil field terminals, hotels, parks, and construction sites, and can achieve loop network or terminal power supply modes.



YB27-12

组合美式预装式变电站

YB27-12 Combined American Prefabricated Substation

产品概述 Product Overview

— 本产品具有体积小、安装维护简便、低噪音、低损耗、防盗、全保护、过负荷能力强等特点。适用于新建小区、绿化带、公园、车站、宾馆、工地、机场等场所。YB27-12 组合美式预装式变电站，适用于 10kV 环网供电，双电源供电或终端供电系统中，作为变电、计量、补偿控制和保护装置。

本产品符合 GB/T17467 《高压 / 低压预装式变电站》标准。

— This product features small size, easy installation and maintenance, low noise, low loss, anti-theft, full protection, and strong overload capacity. It is suitable for use in newly built residential areas, green belts, parks, stations, hotels, construction sites, airports, and other locations. The YB27-12 combination American-style prefabricated substation is applicable in 10kV loop network power supply, dual-power supply, or terminal power supply systems, serving as a device for transformation, metering, compensation, control, and protection.

This product complies with GB/T 17467 "High-voltage/low-voltage prefabricated substations".



DFW10-12

欧式电缆分支箱

DFW10-12 European-Style Cable Branch Box

产品概述 Product Overview

— 欧式电缆分支箱是近年来广泛用于电力配网系统中的电缆化工程设备，它的主要特点是双向开门、利用对接套管作为连接母排，具有长度小、电缆排列清楚、三芯电缆不需大跨度交叉等显著优点。其所采用的电缆接头符合 DIN47636 标准。一般采用额定电流 630A 螺栓固定连接式电缆接头。

— The European-style cable branch box is equipment widely used in cable-based projects within power distribution systems in recent years. Its main characteristics include double-sided doors and the use of mating bushings as the connecting busbar. It offers significant advantages such as a compact length, clear cable arrangement, and the elimination of large-span crossings for three-core cables. The cable connectors used comply with the DIN47636 standard. Typically, rated current 630A bolted-type cable connectors are employed.



DFW-12

高压电缆分支箱 (开闭所)

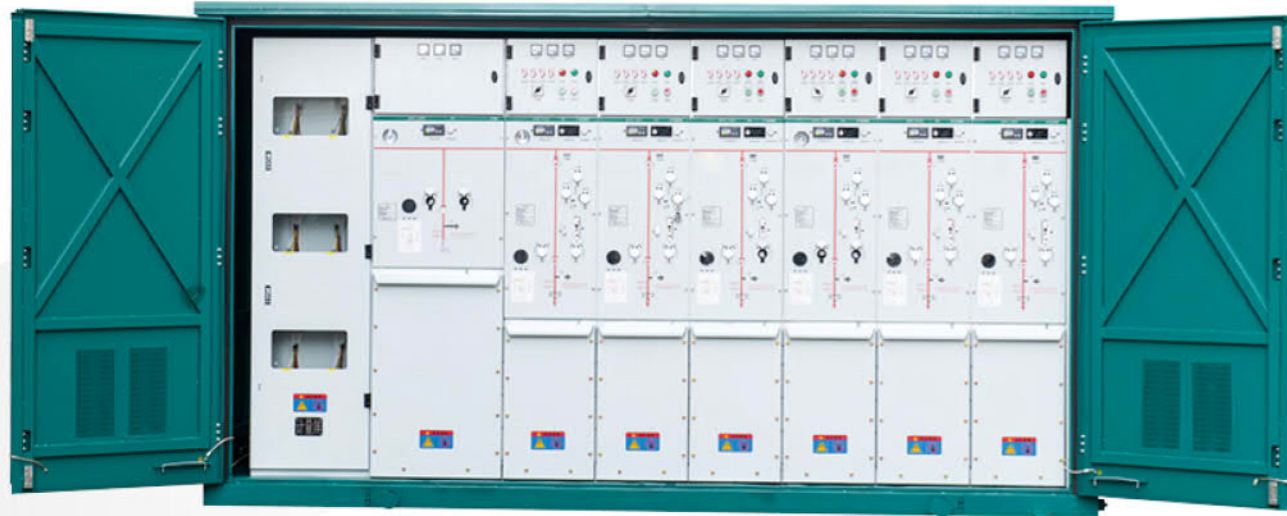
DFW-12 High Voltage Cable Branch Box (Opening And Closing Place)

产品概述 Product Overview

— 高压电缆分支箱 (开闭所) 是将 12/24kV 开关柜、断路器、负荷开关、电流电压互感器、12/24kV 电源 PT、开闭所 FTU, RTU、通信控制终端 (CCU)、12/24kV 计量及自动抄表、USP 电源及指示仪表等安装调试好装入一个可移动、密封防潮的不锈钢箱体体内, 从而实现了城市配电网中一、二次系统的集成化、装配的模块化, 缩短了建设周期, 大大地提高了城市电网运行的可靠性。

— The High-Voltage Cable Branch Box (Switching Station) integrates and pre-commissions various components within a mobile, sealed, and moisture-proof stainless steel enclosure. These components include 12/24kV switchgear, circuit breakers, load switches, current and voltage transformers, 12/24kV power supply PT (Potential Transformer), switching station FTU (Feeder Terminal Unit), RTU (Remote Terminal Unit), communication control terminal (CCU), 12/24kV metering and automatic meter reading system, UPS power supply, and indicating instruments.

This integrated design achieves the consolidation of primary and secondary systems in urban power distribution networks and enables modular assembly. Consequently, it significantly shortens construction periods and greatly enhances the operational reliability of urban power grids.



SCB13

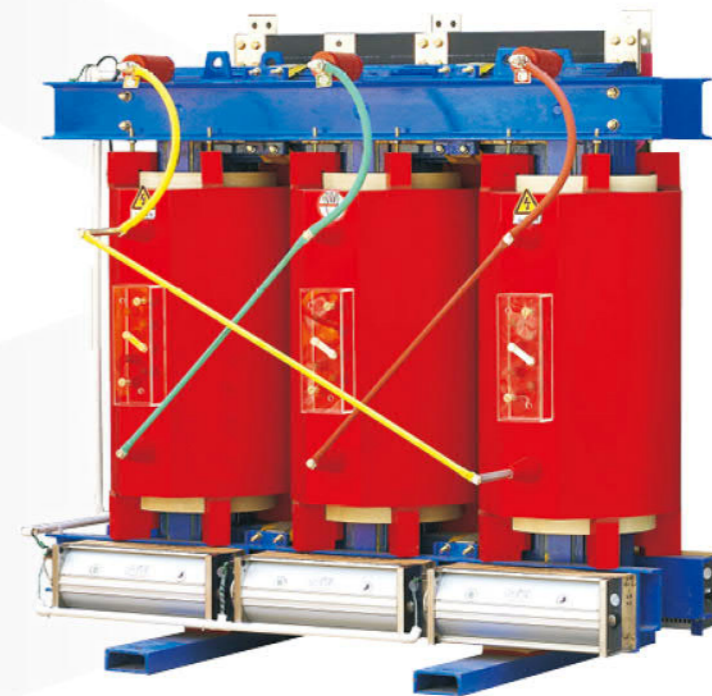
环氧树脂浇注干式变压器

SCB13 Epoxy Resin Cast Dry Type Transformer

产品概述 Product Overview

— 本产品具有广泛的使用领域, 尤其适合使用在防火要求高的场所, 如矿井、油田、地铁、发电厂、学校、医院、商业中心、高层建筑及一切户内配置系统中。

— This product has a wide range of applications and is particularly suitable for use in locations with high fire safety requirements, such as mines, oil fields, subways, power plants, schools, hospitals, commercial centers, high-rise buildings, and all indoor distribution systems.



S13-M

全密封油浸式电力变压器

S13-M Fully Sealed Oil-Immersed Power Transformer

产品概述 Product Overview

— 随着我国经济建设的不断发展，人民生活水平的提高、用电负荷增加、变压器设备增多，带来能源消耗大而且噪声增大，严重污染城市环境，为此世界各国都在呼吁并着手降低能耗、改善城市环境。S13-M 全密封油浸式变压器比当前城网建设用的 S9、S11 型相比，空载损耗分别平均下降 50% 和 30%，噪声水平下降 5~8db。

— With the continuous development of China's economy, the improvement of people's living standards, the increase in electricity load, and the growing number of transformer equipment, energy consumption has risen, and noise pollution has intensified, severely contaminating the urban environment. In response, countries around the world are advocating for and taking steps to reduce energy consumption and improve urban environmental quality. Compared to the S9 and S11 models currently used in urban power grid construction, the S13-M fully sealed oil-immersed transformer reduces no-load losses by an average of 50% and 30%, respectively, and lowers noise levels by 5 to 8 decibels.



KYN61-40.5

铠装移开式交流金属封闭开关设备

KYN61-40.5 Armored Removable AC Metal-Enclosed Switchgear

产品概述 Product Overview

— KYN61-40.5 铠装移开式交流金属封闭开关柜（以下简称开关柜）三相交流量 50Hz、额定电压 40.5kV 的户内成套配电装置。作为发电厂、变电站及工矿企业接受和分配电能之用，对电路起到控制、保护和监测等功能，还可用于频繁操作的场所。

本开关柜符合 GB/T3906 《3.6kV~40.5kV 交流金属封闭开关设备和控制设备》标准。

— The KYN61-40.5 Armored Removable AC Metal-Enclosed Switchgear (hereinafter referred to as switchgear) is an indoor complete set of power distribution equipment for three-phase AC with a frequency of 50Hz and a rated voltage of 40.5kV. It is used for receiving and distributing electrical energy in power plants, substations, industrial and mining enterprises, and provides functions such as control, protection, and monitoring of circuits. It is also suitable for locations requiring frequent operations.

This switchgear complies with GB/T 3906 "3.6 kV~40.5 kV AC metal-enclosed switchgear and controlgear".



KYN28-12

铠装移开式交流金属封闭开关设备

KYN28-12 Armored Removable AC Metal-Enclosed Switchgear

产品概述 Product Overview

— KYN28-12 铠装移开式交流金属封闭开关设备适用于三相交流额定电压 12kV，额定频率 50Hz 电力系统，用于接受和分配电能并对电路实行控制、保护及监测。

本产品符合 GB/T3906 《3.6kV~40.5kV 交流金属封闭开关设备和控制设备》标准。

— The KYN28-12 Armored Removable AC Metal-Enclosed Switchgear is suitable for power systems with a three-phase AC rated voltage of 12kV and a rated frequency of 50Hz. It is designed to receive and distribute electrical energy, as well as to control, protect, and monitor circuits.

This product complies with GB/T 3906 "3.6 kV~40.5 kV AC metal-enclosed switchgear and controlgear".



HXGN15-12

交流金属封闭环网开关设备

HXGN15-12 AC Metal-Enclosed Ring-Network Switchgear

产品概述 Product Overview

— HXGN15-12 交流金属封闭环网开关设备是以六氟化硫开关作为主开关，整柜采用空气绝缘的开关设备。适用于配电自动化，结构紧凑、可扩充，具有结构简单、操作灵活、联锁可靠、安装方便的特点。对各种不同的用户要求均能提供满意的技术方案。由于传感技术和保护断路器的采用，加上全面的技术性能及轻便灵活的装配方案，可满足市场不断变化的要求。

本系列设备的主开关分别采用 ABB 原装 SFG 型 SF6 负荷开关、FLN 系列负荷开关、永磁机械真空断路器、GE Power/VacVB 型真空断路器等。操作方式有手动、电动两种。

产品适用于交流 50Hz、12kV 的电力系统，广泛应用于工业及民用电缆换网点及供电末端，特别适用于以下场所：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。

— HXGN15-12 AC Metal-Enclosed Ring Main Unit is a switchgear that uses sulfur hexafluoride switch as the main switch, with the entire cabinet adopting air insulation. It is suitable for distribution automation, featuring a compact structure and expandability, as well as simple structure, flexible operation, reliable interlocking, and easy installation. It can provide satisfactory technical solutions for various user requirements. With the adoption of sensing technology and protection relays, combined with comprehensive technical performance and lightweight, flexible assembly solutions, it can meet the ever-changing demands of the market.

The main switches of this series of equipment respectively adopt ABB original SFG type SF6 load switch, FLN series load switch, permanent magnet mechanical vacuum circuit breaker, GE Power/VacVB type vacuum circuit breaker, etc. The operation methods include manual and electric modes.

The product is suitable for AC 50Hz, 12kV power systems and is widely used in industrial and civil cable distribution points and power supply terminals. It is especially suitable for the following locations: urban residential area power distribution, small secondary substations, switching stations, industrial and mining enterprises, shopping malls, airports, subways, wind power generation, hospitals, stadiums, railways, tunnels, etc.



HXGN17-12

交流金属封闭开关设备

HXGN17-12 AC Metal-Enclosed Switchgear (Ring Main Unit)

产品概述 Product Overview

— HXGN17-12交流金属封闭开关设备(简称环网柜),额定电压12kV、额定频率50Hz的交流高压成套设备装置,主要用于三相交流环网,终端配电网和工业用电设备,起接受、分配电能和保护等作用,并具有“五防”联锁功能,它也适于装入箱式变电站。

本产品符合 GB/T3906 《3.6kV~40.5kV 交流金属封闭开关设备和控制设备》标准。

— HXGN17-12 AC metal-enclosed switchgear (referred to as ring main unit) is a high-voltage AC complete set of equipment with a rated voltage of 12 kV and a rated frequency of 50 Hz. It is mainly used in three-phase AC ring networks, terminal distribution networks, and industrial power equipment, serving functions such as receiving, distributing electrical energy, and providing protection. It is equipped with "five-prevention" interlocking functions and is also suitable for installation in compact substations.

This product complies with GB/T 3906 "3.6 kV~40.5 kV AC metal-enclosed switchgear and controlgear".



LDS-12

全绝缘充气式环网开关设备

LDS-12 Full Insulation Inflatable Ring Network Switch Equipment

产品概述 Product Overview

— 我公司生产的 LDS-12 全绝缘充气式环网开关设备,已经通过国家高压电器试验中心型式试验。产品广泛用于 10kV/6kV 配电系统,是城乡各类用户变配电系统的选用开关产品。开关柜为模块化单元模式,可根据不同用途进行组合;由固定式单元组合与可扩展型单元两大类,满足各种变电站对紧凑型开关柜灵活使用的需要。

— The LDS-12 fully insulated gas-insulated ring main unit (RMU) manufactured by our company has passed the type test at the National High Voltage Apparatus Testing Center.

The product is widely used in 10kV/6kV power distribution systems and is the preferred switching equipment for power transformation and distribution systems of various urban and rural users.

The switchgear adopts a modular unit design and can be combined according to different applications.

It consists of two categories: fixed unit combinations and expandable units, which meet the flexible application requirements of various substations for compact switchgear.



LDS-24

全绝缘充气式环网开关设备

LDS-24 Fully Insulated Gas-Insulated Ring Main Unit

产品概述 Product Overview

— 24kV 充气柜以 SF₆ 气体作为绝缘和开断介质。负荷开关、真空断路器和带电母线等全部密封在充以一定压力的封闭不锈钢容器中。24kV 外部采用美标 / 欧标型标准套管通过电缆接头与进出线电缆连接, 形成全绝缘、全封闭结构, 有效防洪水、耐污秽, 适用于各种恶劣环境, 广泛应用于 24kV 环网或终端供电系统。

24kV 充气柜采用性能优异的 SF₆ 绝缘气体, 大大提高了绝缘性能。紧凑的结构, 使其占地面积小, 对小型化发展十分有利。通过使用 SF₆ 气体, 有效地提高了环网柜的灭弧性能。我司气体柜采用全封闭式结构, 开关核心部件不受外界环境的影响, 极大丰富了本类型环网的使用场景; 免维护产品结构的采用也大大减少了维护工作, 降低了维护成本。

— The 24kV gas-insulated switchgear utilizes SF₆ gas as both the insulating and arc-extinguishing medium. Key components such as the load switch, vacuum circuit breaker, and live busbars are completely sealed within a stainless steel container filled with SF₆ gas at a specific pressure. Externally, American/European standard bushings are employed to connect with incoming and outgoing cables via cable connectors, forming a fully insulated and fully sealed structure. This design provides effective protection against flooding and pollution, making it suitable for various harsh environments and widely applicable in 24kV ring networks or terminal power supply systems.

By using high-performance SF₆ insulating gas, the 24kV gas-insulated switchgear significantly enhances insulation performance. Its compact structure results in a small footprint, which is highly advantageous for miniaturization trends. The use of SF₆ gas effectively improves the arc-extinguishing capability of the ring main unit. Our gas-insulated switchgear features a fully sealed structure, ensuring that the core switching components are unaffected by external environmental conditions, greatly expanding the application scenarios for this type of ring network. The adoption of a maintenance-free product structure substantially reduces maintenance workload and lowers maintenance costs.



LDG-12

固体绝缘环网开关设备

LDG-12 Solid Insulation Ring Network Switching Equipment

产品概述 Product Overview

— LDG-12 固体绝缘环网开关设备是一种全绝缘、全密封、免维护的固体绝缘真空开关设备。该环网柜具有结构简单、操作灵活、联锁可靠、安装方便等特点, 适用于 50Hz, 12kV 的电力系统, 广泛应用于工业及民用电网环网及配网终端工程, 作为电能的接受和分配之用, 特别适用于城市居民区配电、小型变电站、开闭所、电缆分支箱、箱式变电站、工矿企业、商场、机场、地铁、风力发电、医院、体育场、铁路、隧道等场所使用。

— LDG-12 Solid Insulation Ring Main Unit (RMU) is a fully insulated, fully sealed and maintenance-free solid insulation vacuum switchgear.

Featuring simple structure, flexible operation, reliable interlocking and convenient installation, this ring main unit is suitable for 50 Hz, 12 kV power systems.

It is widely used in industrial and civil cable ring networks and distribution terminal projects for power reception and distribution.

It is especially suitable for urban residential power distribution, small substations, switching stations, cable branch boxes, box-type substations, industrial and mining enterprises, shopping malls, airports, subways, wind power generation, hospitals, stadiums, railways, tunnels and other applications.



LHBXGN-12

环保气体绝缘环网开关设备

LHBXGN-12 Eco-Friendly Gas-Insulated Ring Main Unit

产品概述 Product Overview

— LHBXGN-12 环保气体绝缘环网开关设备是采用真空灭弧室灭弧，环保气体为主绝缘介质、少量固体绝缘支撑件、主回路无任何包封，正常运行时为零表压或微正压（气箱的气压 $\leq 0.02\text{MPa}$ ），并且相对地及相间的绝缘能力满足零表压下空气绝缘要求的配电开关设备。

环保气体绝缘环网开关设备是常用的一种三相交流智能环保气体绝缘柜，并且广泛应用于各种成套开关设备中，随着国内人口集中化，电力市场必须配套，环保气体绝缘开关设备也随着市场的开发，需求量也将越来越大；市场潜力还有待开发。同时由于产品汇集了数据采集和控制、数据处理和存储、开关设备在线监测和高级分析等多功能于一体，对配电网进行在线智能化监控与管理，使配电网运行于安全、可靠、优质、高效的最佳状态，实现对电力系统配电网的远程监测、控制、管理，实现了电网优化、用电安全、电能管理、节能降耗的需求；系统同时可广泛应用于交通、工厂、医院、学校、建筑、住宅小区及商用写字楼等智能配电领域。

— The LHBXGN-12 Eco-Friendly Gas-Insulated Ring Main Unit is a distribution switchgear that utilizes a vacuum interrupter chamber for arc extinguishing. It employs eco-friendly gas as the primary insulating medium, with a small number of solid insulating supports. The main circuit has no encapsulation. Under normal operation, it maintains zero gauge pressure or slight positive pressure (the air pressure in the gas tank is $\leq 0.02\text{MPa}$), and its insulation capability between phase-to-ground and phase-to-phase meets the air insulation requirements at zero gauge pressure.

This eco-friendly gas-insulated ring main unit is a commonly used type of three-phase AC intelligent eco-friendly gas-insulated cabinet and is widely applied in various switchgear assemblies. With the increasing concentration of populations in China, the power market must provide corresponding support. Consequently, the demand for eco-friendly gas-insulated switchgear is also growing alongside market development; its market potential remains to be further tapped.

Simultaneously, this product integrates multiple functions, including data collection and control, data processing and storage, online monitoring of switchgear, and advanced analysis. It enables online intelligent monitoring and management of the distribution network, ensuring its operation in a safe, reliable, high-quality, and efficient optimal state. This facilitates remote monitoring, control, and management of the power distribution network, meeting the demands for grid optimization, electrical safety, power management, and energy conservation and consumption reduction. The system can also be widely applied in intelligent power distribution fields such as transportation, factories, hospitals, schools, buildings, residential communities, and commercial office buildings.



TBBZ-12

高压并联电容器装置

TBBZ-12 High Voltage Parallel Capacitor Device

产品概述 Product Overview

— TBBZ-12 高压并联电容器装置（以下简称装置）适用于交流 50Hz、三相 10kV 电力系列中，用于提高功率因素和调整网路电压，从而提高供电设备有功输出和减少线路损耗。本装置为户内（外）式。

— TBBZ-12 High Voltage Shunt Capacitor Bank (hereinafter referred to as the equipment) is applicable to 50Hz AC, three-phase 10kV power systems. It is used to improve power factor and regulate network voltage, so as to increase the active output of power supply equipment and reduce line loss. The equipment is indoor (outdoor) type.



GZDW

直流电源柜

GZDW DC Power Cabinet

产品概述 Product Overview

— GZDW 直流电源柜应用于大中小型发电厂和变电站，作为正常运行和事故状态下的高压开关分合闸、继电保护、自动控制、事故照明、灯光和音响信号等所需的直流电源也可应用于冶金、铁道、矿山、石化、邮电、通讯、医疗卫生、银行、宾馆、高层建筑和计算机网络等行业所需的直流电源；微机控制直流电源柜可用于无人职守、远程集中监控的发电厂、变电站和其他行业的直流电源。

本产品符合 GB/T 19826-2014 《电力工程直流电源设备通用技术条件及安全要求》标准。

— GZDW DC power supply cabinet is used in large, medium, and small power plants and substations as the DC power source for high-voltage switch opening and closing, relay protection, automatic control, emergency lighting, and audible and visual signals under normal operation and fault conditions. It can also be used in metallurgy, railways, mines, petrochemicals, telecommunications, communications, medical and health care, banking, hotels, high-rise buildings, and computer networks. The microcomputer-controlled DC power supply cabinet is suitable for DC power supply in unattended power plants, substations, and other industries requiring remote centralized monitoring.

This product complies with GB/T 19826-2014 "General technical specifications and safety requirements for DC power supply equipment for electric power engineering".



MNS

低压抽出式开关柜

MNS Low Voltage Withdrawable Switchgear

产品概述 Product Overview

— MNS 低压抽出式开关柜（以下称开关柜）均由标准化的、集成系列的模块组成，并且抽屉具有可靠的机械联锁装置，使用户在使用时更安全、更可靠。本开关柜适用于交流 50(60)Hz、额定工作电压 400V、660V，额定电流 5000A 及以下三相五线制的电力供电系统，可用于发电厂、变电所、工矿企业、大楼宾馆、机场、码头以及广播电视等通信中心，来作为发电、输配电、电能转换及电能消耗设备的控制，并通过电容补偿柜对其主母线进行无功补偿。

本产品符合 GB/T7251.2 《低压成套开关设备和控制设备 第 2 部分：成套电力开关和控制设备》标准。

— MNS low-voltage withdrawable switchgear (hereinafter referred to as switchgear) consists of standardized, integrated series modules, and the drawers are equipped with reliable mechanical interlocking devices, ensuring safer and more reliable operation for users. This switchgear is suitable for AC 50(60)Hz power supply systems with rated operating voltages of 400V and 660V, rated currents up to 5000A, and three-phase five-wire systems. It can be used in power plants, substations, industrial and mining enterprises, hotels, airports, docks, as well as broadcasting, television, and other communication centers, serving as control equipment for power generation, transmission and distribution, power conversion, and power consumption devices. Additionally, reactive power compensation for the main busbar can be achieved through capacitor compensation cabinets.

This product complies with GB/T 7251.2 "Low-voltage switchgear and controlgear assemblies - Part 2: Power switchgear and controlgear assemblies".



GCS

低压抽出式开关柜

GCS Low-Voltage Withdrawable Switchgear

产品概述 Product Overview

— GCS 装置适用于发电厂、石油、化工、冶金、纺织、高层建筑等行业的配电系统。在大型发电厂、石化系统等自动化程度高，要求与计算机接口的场所，作为三相交流频率为 50(60)Hz，额定工作电压为 380V(400V、660V)，额定电流为 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电装置。

— The GCS low-voltage switchgear assembly is applicable to power distribution systems in industries including power plants, petroleum, chemical engineering, metallurgy, textiles, high-rise buildings and other sectors.

In places with a high degree of automation and requirements for computer interfaces, such as large power plants and petrochemical systems, it serves as a low-voltage complete set of distribution equipment for power distribution, centralized motor control and reactive power compensation in power generation and supply systems with three-phase AC frequency of 50(60)Hz, rated operating voltage of 380V(400V, 660V) and rated current up to 4000A.



GCK

低压抽出式开关柜

GCK Low-Voltage Withdrawable Switchgear

产品概述 Product Overview

— GCK 低压抽出式开关柜由动力配电中心 (PC) 柜和电动机控制中心 (MCC) 二部分组成，适用于发电厂、变电站、工矿企业等电力用户作为交流 50Hz，最大工作电压至 660V，最大工作电流至 3150A 的配电系统中，作为动力配电、电动机控制及照明等配电设备的电能转换分配控制之用。

— GCK Low Voltage Withdrawable Switchgear consists of two parts: the Power Distribution Center (PC) cabinet and the Motor Control Center (MCC) cabinet.

It is suitable for power users such as power plants, substations, industrial and mining enterprises,

applied in power distribution systems with AC 50Hz, maximum operating voltage up to 660V and maximum operating current up to 3150A,

for energy conversion, distribution and control of power distribution, motor control, lighting and other power distribution equipment.



GGD

交流低压配电柜

GGD AC Low-Voltage Distribution Cabinet

产品概述 Product Overview

GGD 型交流低压配电柜适用于发电厂、变电站、厂矿企业等电力用户的交流 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、分配与控制之用。

GGD 型交流低压配电柜是根据能源部主管上级与广大电力用户及设计部门的要求，本着安全、经济、合理、可靠的原则设计的新型低压配电柜。产品具有分断能力高、动热稳定性好、电气方案灵活、组合方便、系列性、实用性强、结构新颖、防护等级等特点，可作为低压成套开关设备的更新换代产品使用。

本产品符合 GB/T7251.2《低压成套开关设备和控制设备第 2 部分：成套电力开关和控制设备》标准。

GGD AC low-voltage distribution cabinet is suitable for power distribution systems with AC 50Hz, rated operating voltage of 380V, and rated operating current up to 3150A in power plants, substations, industrial and mining enterprises, and other power users. It is used for power conversion, distribution, and control of lighting, power, and distribution equipment.

The GGD AC low-voltage distribution cabinet is a new type of low-voltage distribution cabinet designed in accordance with the requirements of the competent authority of the Ministry of Energy, as well as the needs of power users and design departments, based on the principles of safety, economy, rationality, and reliability. The product features high breaking capacity, good dynamic and thermal stability, flexible electrical schemes, convenient combination, strong serialization and practicality, novel structure, and high protection level. It can serve as a replacement product for low-voltage complete switchgear assemblies.

This product complies with GB/T 7251.2 "Low-voltage switchgear and controlgear assemblies - Part 2: Power switchgear and controlgear assemblies".



GGJ

低压无功功率补偿装置

GGJ Low Voltage Reactive Power Compensation Device

产品概述 Product Overview

由于本装置能有效改善用电负荷的功率因数，降低线损，提高变压器的实际负载能力，具有显著的节能效果，同时在系统中采用特定的电抗器，还可以有效防止谐波放大、有效吸收大部分谐波电流，使谐波电压总畸变率限值及各次谐波电流含量限值符合国家标准，达到谐波治理的目的。而如果使用普通的接触器投切电容器组，带来的将会是大的浪涌电流，慢的补偿时间、高的维护费用和短的使用寿命，因此，我们建议用户在以下场合，能优先考虑使用动态无功补偿装置。如：工矿企业的变电所、生产车间及民用建筑等的低压电网中，特别适合负荷经常变化，无功功率不稳定的输电系统。

本产品符合 GB/T15576《低压成套无功功率补偿装置》标准。

Due to its ability to effectively improve the power factor of electrical loads, reduce line losses, and increase the actual load capacity of transformers, this device offers significant energy-saving effects. Additionally, by incorporating specific reactors into the system, it can effectively prevent harmonic amplification and absorb most harmonic currents, ensuring that the total harmonic voltage distortion limits and the content limits of individual harmonic currents comply with national standards, thereby achieving harmonic mitigation. In contrast, using ordinary contactors for switching capacitor banks would result in large inrush currents, slow compensation times, high maintenance costs, and a short service life. Therefore, we recommend that users prioritize the use of dynamic reactive power compensation devices in the following scenarios, such as in the low-voltage power grids of industrial and mining enterprise substations, production workshops, and civil buildings. They are particularly suitable for transmission and distribution systems with frequently changing loads and unstable reactive power.

This product complies with GB/T 15576 "Low-voltage reactive power compensation assemblies".



GDF

固定分隔式开关柜

GDF Fixed-Section Switchgear

产品概述 Product Overview

— GDF 固定分隔式开关柜适用于交流 50(60)Hz 额定工作电压 660V 及以下的系统，适用于发电、输电、配电、电能转换和电能消耗设备的控制。

— The GDF Fixed-Section Switchgear is suitable for systems with AC 50(60)Hz and rated operating voltages up to 660V. It is used for the control of power generation, transmission, distribution, energy conversion, and energy consumption equipment.



ZN85-40.5 户内高压真空断路器
ZN85-40.5 Indoor High-Voltage Vacuum Circuit Breaker

— ZN85-40.5 户内真空断路器适用于额定电压 40.5kV，三相交流 50Hz 的户内高压设备，可供工矿企业、发电厂及变电站作为分合负荷电流、过载电流、短路电流之用，并适用开断频繁操作场合。

— ZN85-40.5 Indoor Vacuum Circuit Breaker is suitable for indoor high-voltage equipment with a rated voltage of 40.5 kV and three-phase AC 50 Hz. It can be used in industrial and mining enterprises, power plants and substations for switching on and off load current, overload current and short-circuit current, and is applicable to frequent operation occasions.



ZN63(VS1)-12 户内高压真空断路器
ZN63(VS1)-12 Indoor High-Voltage Vacuum Circuit Breaker

— ZN63(VS1)-12 户内高压真空断路器是三相交流 50Hz、额定电压 12kV 的户内高压开关设备，可作为工矿企业动力设备的保护和控制单元。

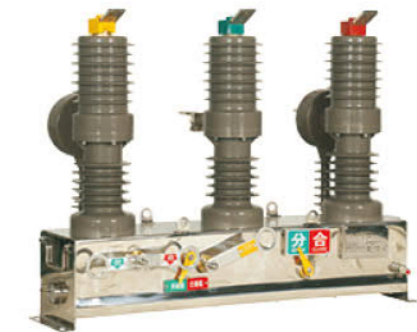
— ZN63(VS1)-12 Indoor High-Voltage Vacuum Circuit Breaker is an indoor high-voltage switchgear for three-phase AC 50Hz with a rated voltage of 12kV. It can be used as a protection and control unit for power equipment in industrial and mining enterprises.



ZW32-40.5FG 户外高压真空断路器
ZW32-40.5FG Outdoor High-Voltage Vacuum Circuit Breaker

— ZW32-40.5FG 户外高压真空断路器主要由集成固封极柱、电流互感器、操动机构及箱体组成。可加装隔离开关，该型号断路器为小型化设计，外壳采用优质钢箱体。电流互感器可根据用户需要选择。

— ZW32-40.5FG Outdoor High-Voltage Vacuum Circuit Breaker mainly consists of an integrated sealed pole, a current transformer, an operating mechanism, and a box. An isolation switch can be installed, and this model of circuit breaker is designed for miniaturization, with a high-quality steel casing. Current transformers can be selected according to user needs.



ZW32-12 户外高压真空断路器
ZW32-12 Outdoor High-Voltage Vacuum Circuit Breaker

— ZW32-12 户外高压真空断路器（以下简称断路器）为额定电压 12kV，三相交流 50Hz 的户外配电设备。主要用于开断、关合电力系统中的负荷电流、过载电流及短路电流。

— ZW32-12 Outdoor High-Voltage Vacuum Circuit Breaker (hereinafter referred to as the "circuit breaker") is an outdoor power distribution device with a rated voltage of 12kV and a three-phase AC frequency of 50Hz. It is mainly used to break and close the load current, overload current and short-circuit current in the power system.