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Product Selection Guide

产品选型手册

成套设备
Complete Set

锦辉电气





Company Profile

企业简介

锦辉电气有限公司是一家专业从事高压电气产品及成套电气产品的生产、加工、销售和服务的综合型企业。公司拥有高级电气技术人员和优秀的专业技术人才以及完善的生产设备、检测设备，主要生产户内高压真空断路器、户外高压真空断路器、高压负荷开关、高压隔离开关、接地开关等系列产品。

锦辉电气有限公司一直尊崇以质量求生存，以信誉促发展的企业理念，并以诚信共赢，开创经营理念，创造良好的企业环境，以全新的管理模式，完善的技术，周到的售后服务，卓越的品质为生存根本，我们始终坚持用户至上，用心去服务客户，坚持用自己的服务去打动客户。

我们真诚欢迎社会各界宾朋莅临指导，共谋发展、共创辉煌。

Jinhui Electric Co., Ltd is a comprehensive enterprise specializing in the production, processing, sales and service of high-voltage electrical products and complete sets of electrical products. The company has senior electrical technicians, excellent professional technicians and perfect production equipment and testing equipment, mainly producing indoor high-voltage vacuum circuit breakers, outdoor high-voltage vacuum circuit breakers, high-voltage load switches, high-voltage disconnectors, grounding switches and other series of products.

Jinhui Electric Co., Ltd has always respected the enterprise concept of survival by quality and development by reputation, and created a good business environment by creating a win-win business philosophy with integrity. With a new management model, perfect technology, considerate after-sales service, and excellent quality as the basis for survival, we always adhere to the principle of customer first, serve customers with heart, and use our own services to impress customers.

We sincerely welcome guests and friends from all walks of life to visit and guide us to seek common development and create brilliance.

Qualification Certificate

资质证书

相信品牌的力量！

Believe in the power of brands!

有实力才敢承诺

Only those with strength dare to make promises





助推电力行业稳健发展
Boost the steady development of the power industry

Product Catalogue

产品目录





PRODUCTION EQUIPMENT

生产设备

高端设备, 精湛技艺





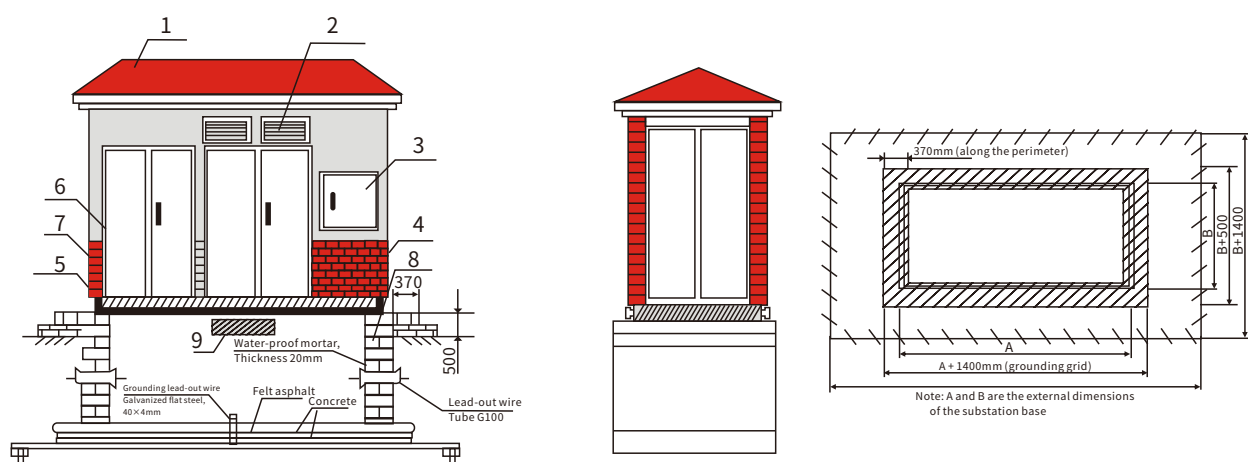
产品概述/Product Overview

This product is widely used in indoor and outdoor locations such as urban power grid renovation, residential communities, high rise buildings, industrial and mining areas, hotels, shopping malls, airports, railways, oil fields, docks, highways, and temporary power facilities.

技术参数/Technical Parameter

No.	Item Name	Unit	HV Electrical Appliance	Transformer	LV Electrical Appliance
1	Rated voltage	kV	6/10	6/0.4, 10/0.4	0.4
2	Rated capacity	kVA	-	50~1600	-
3	Rated current	A	200, 400, 630	-	100~3200
4	Rated short-circuit breaking current	A	Load switch 400-630	-	15~63kA
		kA	Combined switch depends on fuse	-	
5	Rated short time withstand current	kA	16, 20(4s)	-	15(1s)
6	Rated peak withstand current	kA	31.5, 50	-	30(1s)
7	Power frequency withstand voltage (1min)	kV	Phase-to-ground and phase-to-phase 32/42	25/35(Oil Type)	30
		kV	Isolation fracture 36/48	20/28(Dry Type)	63
8	Lightning impulse withstand voltage(peak)	kV	Phase-to-ground and phase-to-phase 60/75	60/75	≤0.3, 2
		kV	Isolation fracture 70/85		>0.3, 2.5
9	Cabinet protection level	-	-	IP23	-
10	Noise level	ab	-	55	-
11	Executive standards	-	GB/T 17467 High and Low Voltage Prefabricated Substation	-	-
		-	GB/T 17467 High and Low Voltage Prefabricated Substation	-	-

安装尺寸图/Outline Dimension



1.Roof

2.Louver

3.External-mounted metering box

4.Lifting Ring

5.Channel steel underframe

6.Door

7.Strip brick,brick-like wall

8.Concrete foundation

9.Foundation vent



产品概述/Product Overview

This product is developed by absorbing the latest advanced technologies worldwide and combining domestic actual conditions. It features small size, easy installation and maintenance, low noise, low loss, anti-theft function, full protection, and strong overload capacity. It is applicable to new residential areas, green belts, parks, stations & guesthouses, construction sites, airports and other places.

The ZGS11-12 series combined American prefabricated substation is suitable for 10kV ring network power supply, dual power supply or terminal power supply systems, serving as power transformation, metering, compensation control and protection equipment. This product complies with the following standards: GB17467 High-Voltage and Low-Voltage Prefabricated Substations and DL/T537 Guideline for Application of High-Voltage and Low-Voltage Prefabricated Substations.

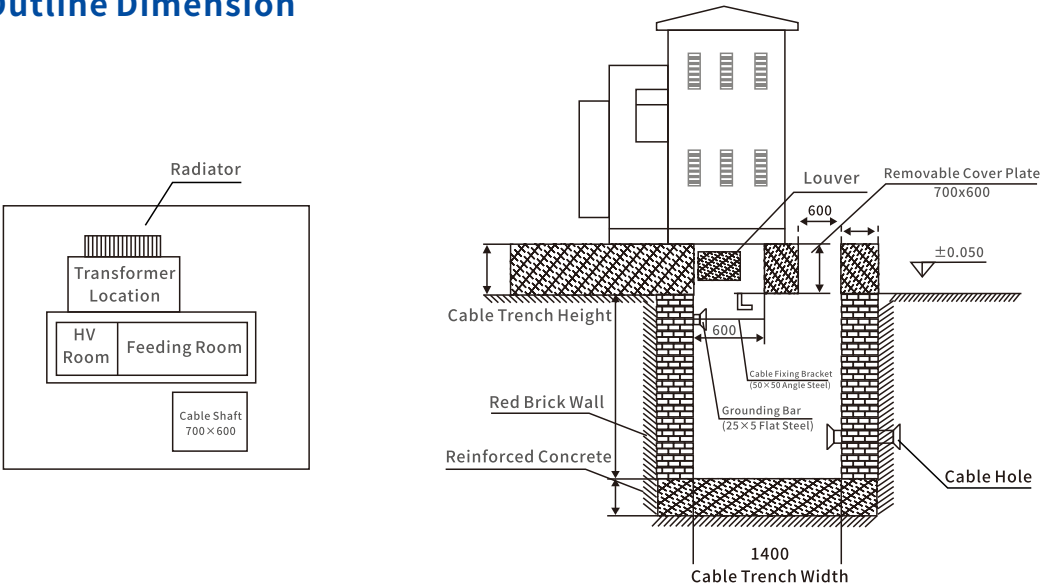
使用条件/Operating Conditions

- Altitude: Not exceeding 1000m;
- Ambient temperature: -35℃~+40℃;
- Relative humidity: Daily average not greater than 95%, monthly average not greater than 90%;
- Installation site: Places free from fire, explosion hazards and chemical corrosive gases, with good ventilation, and ground inclination not greater than 3°.

技术参数/Technical Parameter

No.	Item Name	Unit	Parameter
1	Rated Voltage	kV	10/0.4 (High Voltage/Low Voltage)
2	Maximum Operating Voltage	kV	12 (HV Side)
3	Rated Frequency	Hz	50
4	Rated Capacity	kVA	50-1600
5	1-Minute Power Frequency Withstand Voltage	kV	35
6	Lightning Impulse Voltage	kV	75
7	Cooling Method	-	Oil-Immersed Self-Cooling
8	Breaking Current of HV Backup Fuse	kA	50
9	Breaking Current of Plug-in Fuse	kA	25
10	Ambient Temperature	℃	-35~+40
11	Allowable Temperature Rise of Coil	℃	65
12	Off-Circuit Tap Changer	-	±5% or ±2×2.5%
13	Noise Level	db	50
14	Protection Level	-	IP43

安装尺寸图/Outline Dimension





产品概述/Product Overview

The KYN28-12 armored withdrawable AC metal-enclosed switchgear is suitable for 3-phase AC power systems with a rated voltage of 12kV and a rated frequency of 50Hz. It is used to receive and distribute electrical energy, as well as to control, protect and monitor circuits.

This product complies with the requirements of standards including GB3906 3~35kV AC Metal-Enclosed Switchgear, GB/T11022 Common Technical Requirements for High-Voltage Switchgear and Controlgear Standards, IEC60298 AC Metal-Enclosed Switchgear and Controlgear for Rated Voltages Above 1kV up to and Including 52kV, and DL/T404 Technical Conditions for Ordering Indoor AC High-Voltage Switchgear.

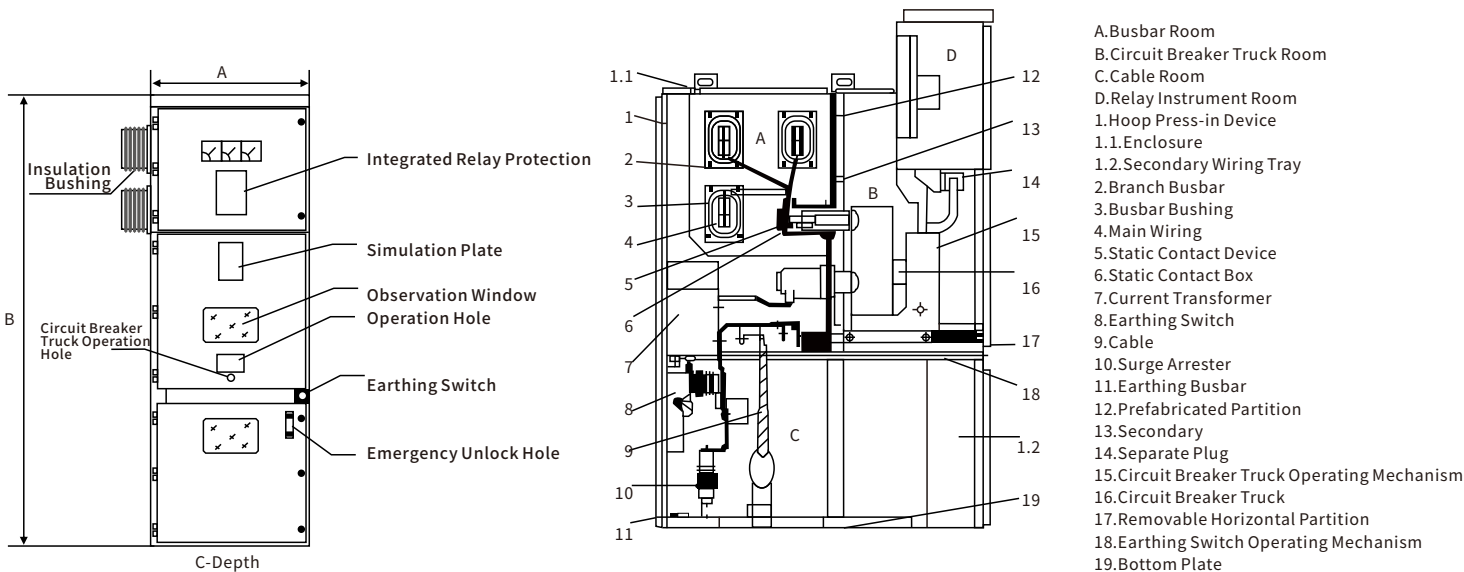
使用条件/Operating Conditions

- Ambient air temperature: upper limit +40°C, lower limit -15°C;
- Maximum altitude of the equipment installation site: 1000m;
- Ambient humidity: daily average relative humidity $\leq 95\%$, monthly average relative humidity $\leq 90\%$;
- Earthquake intensity not exceeding 8 degrees;
- Ambient air shall be free from significant contamination by corrosive or flammable gases, water vapor, etc.;
- No heavy dirt or frequent severe vibration.

技术参数/Technical Parameter

No.	Item Name		Unit	Parameter
1	Rated Voltage		V	12
2	Rated Insulation Level	Power Frequency Withstand Voltage	kV	Phase-to-phase and phase-to-ground: 42; Breaker port: 48
		Lightning Impulse	kV	Phase-to-phase and phase-to-ground: 75; Breaker port: 48
3	Rated Current of Main Busbar		A	50
4	Rated Frequency		Hz	630, 1250, ,1600,2000,2500,3150
5	Rated Current		A	630, 1250, ,1600,2000,2500,3150
6	Rated Short-Circuit Breaking Current		kA	25,31.5,40
7	Rated Short-Time Withstand Current of Main Circuit		kA/4s	16,20,25,31.5,40
8	Rated Short-Time Withstand Current of Grounding Circuit		kA/2s	13.9,17.4,21.8,27.4,34.8
9	Rated Peak Withstand Current		kA	40,50,63,80,100
10	Protection Level		-	IP4X

安装尺寸图/Outline Dimension





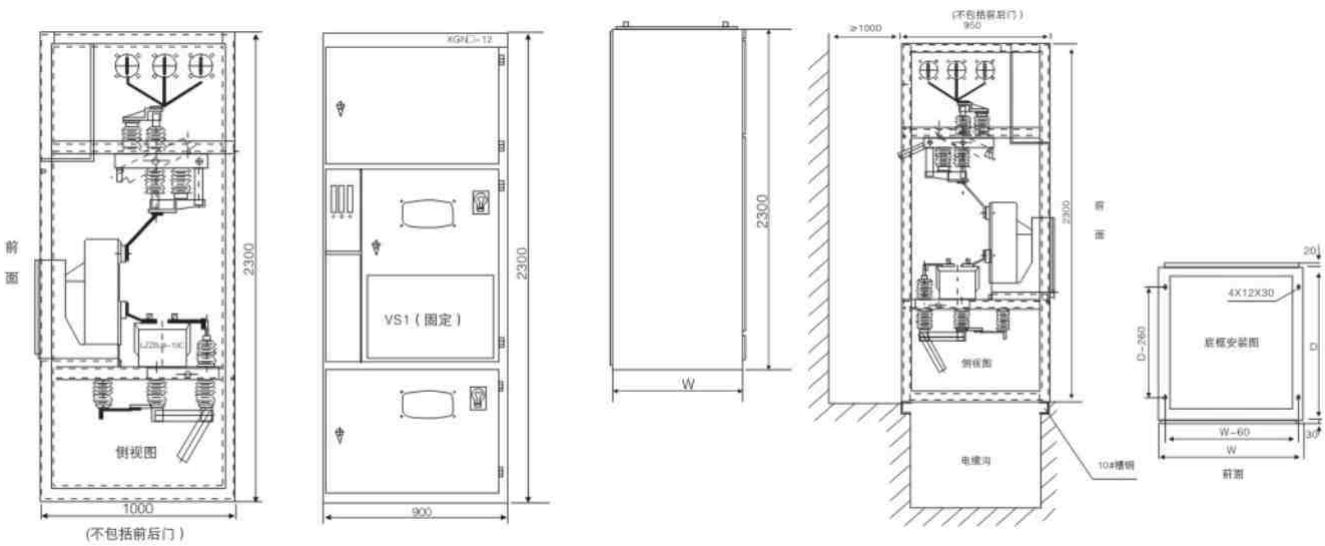
产品概述/Product Overview

The XGN66-12 fixed-type AC metal-enclosed switchgear (hereinafter referred to as the switchgear) is applicable to 3.6-12kV three-phase AC 50Hz systems as a device for receiving and distributing electrical energy. It is suitable for compact operating sites and the transformation of switchgears equipped with oil switches. Its busbar systems include single-busbar systems and single-busbar section systems.

技术参数/Technical Parameter

No.	Item Name	Unit	Parameter
1	Rated voltage	KV	3.6, 7.2, 12
2	Rated current	A	630, 1250
3	Rated short-circuit breaking current	kA	20, 25, 31.5
4	Rated short-circuit making current	kA	50, 63, 80
5	Rated short-time withstand current (4s rms value)	kA	20, 25, 31.5
6	Rated peak withstand current (peak value)	kA	50, 63, 80
7	1-minute power frequency withstand voltage	KV	42
8	Lightning impulse withstand voltage	KV	75
9	Auxiliary circuit 1-minute power frequency withstand voltage	KV	2
10	Protection class	-	IP3X
11	Overall dimensions (cable outlet, width × depth × height)	mm	900×1000×2200

安装尺寸图/Outline Dimension





产品概述/Product Overview

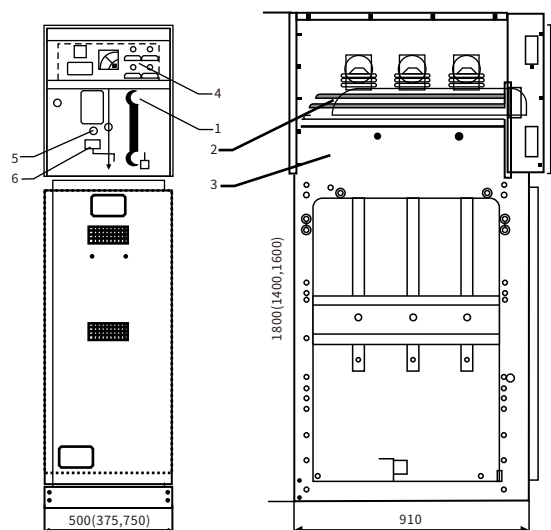
The XGN□-12 AC metal-enclosed ring network switchgear uses sulfur hexafluoride switches as the main switches, and the entire cabinet adopts air-insulated switchgear. It is suitable for distribution automation, with compact structure, expandability, simple structure, flexible operation, reliable interlocking and convenient installation. It can provide satisfactory technical solutions for various user requirements. With the adoption of the latest sensing technology and protective electrical appliances, plus advanced technical performance and economical and flexible assembly schemes, it can meet the ever-changing market requirements. The main switches of XGN□-12 AC metal-enclosed ring network switchgear use original ABB SFG type SF6 load switches, FLN series load switches, permanent magnet mechanical vacuum circuit breakers, GE Power/VacBE type vacuum circuit breakers, etc. The operation modes include manual and electric.

The XGN□-12 AC metal-enclosed ring network switchgear is suitable for AC 50Hz, 12kV power systems. It is widely used in industrial and agricultural power frequency conversion nodes and power supply terminals, especially in the following places: urban residential distribution areas, small secondary substations, switching stations, industrial and mining enterprises, shopping malls, airports, subways, wind power generation, hospitals, stadiums, railways,

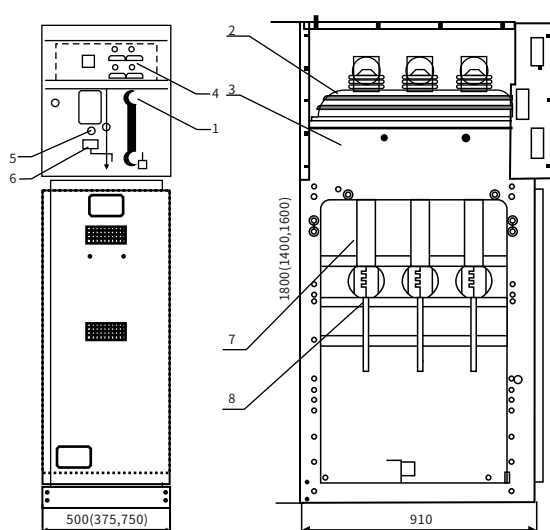
技术参数/Technical Parameter

No.	Item Name	Unit	Parameter
1	Rated Voltage	kV	12
2	Rated Frequency	Hz	50
3	Rated Current of Main Busbar	A	630
4	Rated Short-Time Withstand Current/Duration of Main Circuit and Grounding Circuit	kA/s	20/3,20/20
5	Rated Peak Withstand Current of Main Circuit and Grounding Circuit	kA	50
6	Rated Short-Circuit Making Current of Main Circuit and Grounding Circuit	kA	50
7	Full-Capacity Breaking Times of Load Switch	ops	100
8	Breaking Current of Fuse	kA	31.5,40,50
9	Mechanical Life	ops	2000
10	1-minute Operating Withstand Voltage (RMS Value) Duration, Phase-to-Ground/Isolation Breaker Port	kV	42/48
11	Lightning Impulse Withstand Voltage (Peak Value) Phase-to-Phase, Phase-to-Ground/Isolation Breaker Port	kV	75/85
12	1-minute Operating Frequency Withstand Voltage of Secondary Circuit	kV	2

安装尺寸图/Outline Dimension



Schematic diagram of incoming cabinet structure



Schematic diagram of outgoing cabinet structure

1. Operating mechanism
2. Load switch
3. Cabinet body
4. Instrument compartment
5. SF6 voltage meter
6. High-voltage live display
7. Arrester
8. Lower grounding switch



产品概述/Product Overview

The self-developed JHSM6□-12 fully insulated gas-insulated ring network switchgear of our company has passed the type test of the National High-Voltage Electrical Appliance Test Center. It is widely used in 10kV/6kV power lines and is the preferred switch product for distribution systems of various urban and rural users.

The switchgear adopts a modular unit mode, which can be combined according to different applications. It is divided into two categories: fixed unit combination and expandable unit, meeting the usage needs of various substations for compact switchgear.

The JHSM6□-12 fully insulated gas-insulated ring network switchgear is a fully enclosed system. All its electrical components and live parts are enclosed in the tank body. The entire switchgear has no exposed live parts, thus ensuring reliable operation and personal safety. It realizes full insulation. Through the optional expansion busbar, any combination can be achieved to achieve full modularization. The expansion busbar is fully insulated and shielded, ensuring reliability and safety. The JHSM6□-12 fully insulated gas-insulated ring network switchgear can provide a TV-level automation solution, forming the concept of intelligent switching, and simplifying on-site installation and commissioning to the greatest extent.

The JHSM6□-12 fully insulated gas-insulated ring network switchgear is available in non-expandable standard configuration and expandable standard configuration. Due to its combination of full-module and half-module, as well as self-expandability, it has extremely high flexibility.

The JHSM6□-12 fully insulated gas-insulated ring network switchgear complies with GB standards. The design service life of the equipment operating indoors (at 20°C) exceeds 30 years.

技术参数/Technical Parameter

No.	Item Name	Unit	Module C	Module F	Module V		Module CB	
			Composite Switch	Combined Electrical Apparatus	Vacuum Switch	Isolating/Earthing Switch	Vacuum Circuit Breaker	Isolating/Earthing Switch
1	Rated Voltage	kV	12	12	12	12	12	12
2	Rated Frequency	Hz	50	50	50	50	50	50
3	Power Frequency Withstand Voltage (Phase-to-Phase/Port)	kV	42/48	42/48	42/48	42/48	42/48	42/48
4	Lightning Impulse Withstand Voltage	kV	75/85	75/85	75/85	75/85	75/85	75/85
5	Rated Current	A	630	note ¹	630	-	1250/630	-
6	Rated Busbar Breaking Current	A	630	-	-	-	-	-
7	Rated Cable Breaking Current	A	135/135	-	-	-	-	-
8	Rated Short-Circuit Making Current (Peak Value)	A	50	80	-	-	-	-
9	Rated Peak Withstand Current	kA	50	-	-	-	-	-
10	Rated Short-Time Withstand Current	kA/s	20	-	-	-	-	-
11	Rated Short-Circuit Breaking Current	kA		31.5	20	-	25	-
12	Rated Transfer Current	A		1750	-	-	-	-
13	Maximum Current of Matching Fuse	A	-	125	-	-	-	-
14	Circuit Resistance	—n	≤300	≤600	-	-	-	-
15	Mechanical Life	ops	5000	3000	5000	2000	5000	5000



产品概述/Product Overview

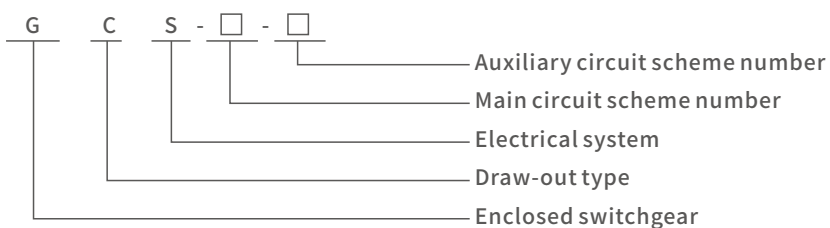
GCS low-voltage withdrawable switchgear is suitable for power distribution systems in industries such as power plants, petroleum, chemical, metallurgy, textiles, and high-rise buildings. It is used in scenarios with high automation requirements (e.g., large power plants, petrochemical systems) that need computer interfaces. As a low-voltage complete power distribution device, it is applied in AC 50(60)Hz power supply systems (rated voltage 400V/660V, rated current up to 5000A) for power distribution, centralized motor control, and reactive power compensation.

This device complies with the following standards:

IEC439-1 Low-Voltage Complete Switchgear and Controlgear

Gb7251 Low-Voltage Complete Switchgear and Controlgear

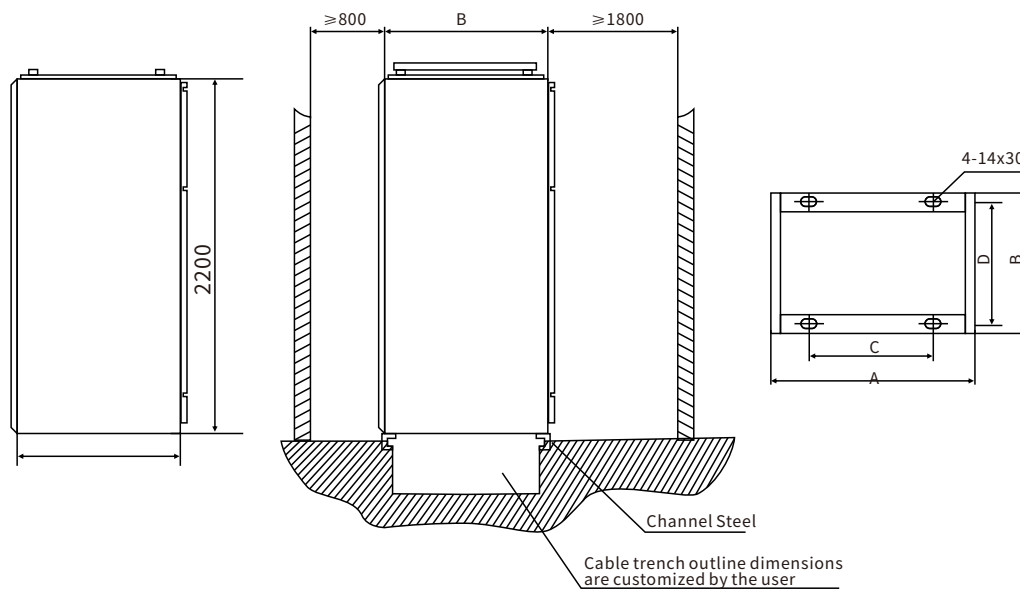
型号及含义/Model and Meaning



技术参数/Technical Parameter

No.	Item Name	Unit	Parameter
1	Rated voltage of main circuit	V	AC 380 (400)、(660)
2	Rated voltage of auxiliary circuit	V	AC 220、380 (400) DC 110、220
3	Rated frequency	Hz	50(60)
4	Rated insulation voltage	V	660(1000)
5	Rated current (A) - Horizontal busbar	A	≤4000
6	Rated current (A) - Vertical busbar (MCC)	A	1000
7	Rated short-time withstand current of busbar	kA/1s	50、80
8	Rated peak withstand current of busbar	kA/0.1s	105、176
9	Power frequency test voltage (1 min) - Main circuit	V	2500
10	Power frequency test voltage (1 min) - Auxiliary circuit	V	1760
11	Busbar - Three-phase four-wire system	-	A.B.C.P.E.N
12	Busbar - Three-phase five-wire system	-	A.B.C.P.E.N
13	Protection class	-	IP30、IP40

安装尺寸图/Outline Dimension



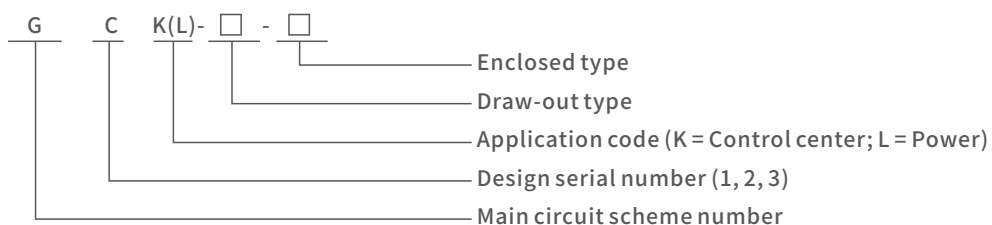
General Code	A	B	C	D	Remarks
GCS-TG1010-4	1000	1000	850	956	Tie Cabinet
GCS-TG0810-4	800	1000	650	956	Power Receiving Cabinet
GCS-TG0808-4	800	800	650	756	Power Receiving Cabinet
GCS-TG0608-4	600	800	450	756	Power Receiving Cabinet



产品概述/Product Overview

The GCK low-voltage draw-out switchgear consists of two parts: the Power Distribution Center (PC) cabinet and the Motor Control Center (MCC). It is applicable to power users such as power plants, substations, and industrial and mining enterprises, serving in AC 50Hz power distribution systems with a maximum operating voltage of 660V and a maximum operating current of 3150A. It is used for power distribution, motor control, and electrical energy conversion, distribution and control of lighting and other distribution equipment.

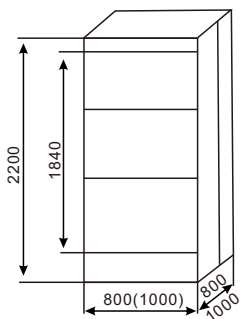
型号及含义/Model and Meaning



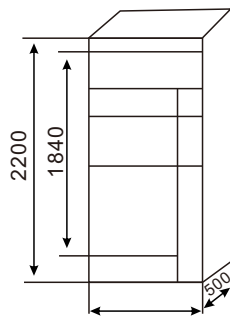
技术参数/Technical Parameter

No.	Item Name		Unit	Parameter
1	Rated operating frequency (Hz)		Hz	50
2	Rated operating voltage (V)		V	380, 660
3	Rated insulation voltage (V)		V	660
4	Rated operating current (A)	Horizontal busbar	A	630~3150
5	Rated operating current (A)	Vertical busbar	A	600
6	Rated short-time withstand current	Horizontal busbar	A	80kA (rms)/1s
7	Rated short-time withstand current	Vertical busbar	A	50kA (rms)/1s
8	Rated peak withstand current	Horizontal busbar	A	176kA/0.1s
9	Rated peak withstand current	Vertical busbar	A	110kA/0.1s
10	Main circuit connector (A)		A	200, 400
11	Auxiliary circuit connector (A)		A	10
12	Power frequency withstand voltage (1 minute) (V)		V	2500
13	Protection class		-	IP40
14	Operation mode		-	Local, remote, automatic

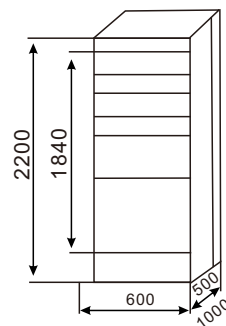
安装尺寸图/Outline Dimension



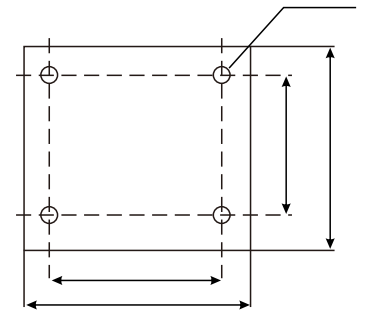
PC cabinet overall
dimensions



MCC cabinet for
wall-mounted installation



MCC cabinet for
floor-standing installation





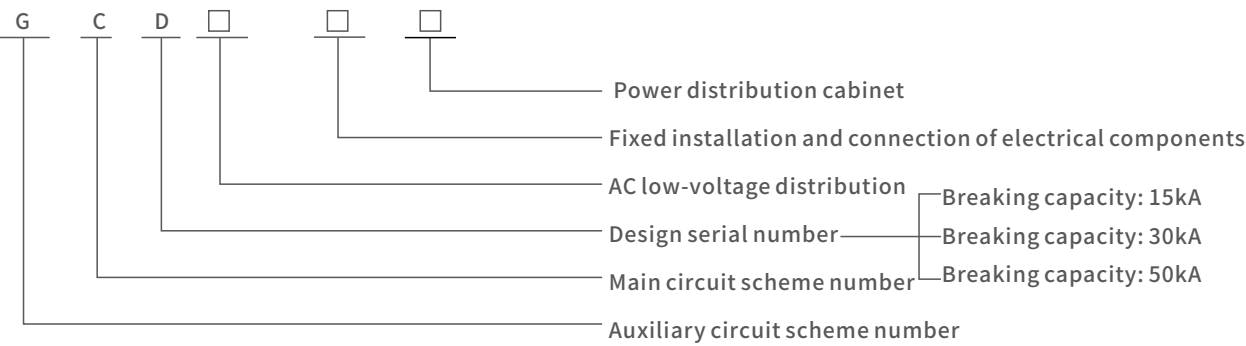
产品概述/Product Overview

GGD AC low-voltage distribution cabinet is applicable to AC 50Hz power distribution systems (rated working voltage 380V, rated working current up to 3150A) for power users such as power plants, substations, and industrial and mining enterprises. It is used for energy conversion, distribution and control of power, lighting and other distribution equipment.

GGD AC low-voltage distribution cabinet is a new type of low-voltage distribution cabinet designed in accordance with the requirements of the Ministry of Energy, large power users and design departments, following the principles of safety, economy, rationality and reliability. It features high breaking capacity, excellent dynamic and thermal stability, good airtightness, flexible combination, strong practicability, novel structure and reliable protection. It can be used as an updated product for low-voltage distribution switchgear.

GGD AC low-voltage distribution cabinet complies with standards such as IEC 439 Low-Voltage Switchgear and Controlgear and GB 7251 Low-Voltage Switchgear and Controlgear.

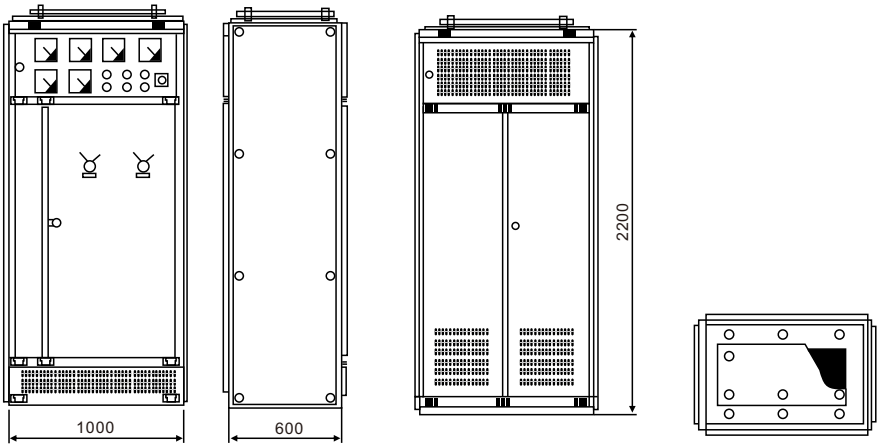
型号及含义/Model and Meaning



技术参数/Technical Parameter

Model	Rated Voltage (V)	Rated Current (A)	Rated Short-circuit Breaking Current (KA)	Rated Short-time Withstand Current (1s) (KA)	Rated Peak Withstand Current (KA)
GGD1	380	A 1000	15	15	30
		B 600(630)			
		C 400			
GGD2	380	A 1500(1600)	30	30	63
		B 1000			
		C 600			
GGD3	380	A 3150	50	50	105
		B 2500			
		C 2000			

安装尺寸图/Outline Dimension



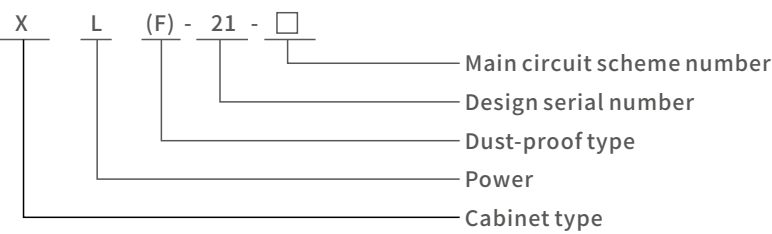


产品概述/Product Overview

The XL-21 power distribution cabinet is applied in power plants and industrial and mining enterprises. It serves as power distribution or lighting distribution equipment in three-phase AC 500V and below power systems (including three-phase three-wire, three-phase four-wire, and three-phase five-wire systems). It is installed indoors against the wall, with front-side operation and front-side maintenance.

The cabinet body adopts an all-steel structure, made of C-profile steel or BM-profile steel. The interior is equipped with a new-type plug-in load isolating switch (capable of on-load operation). The front door is fitted with voltage and current indicating instruments, signal lights, buttons, transfer switches and other components. The cabinet uses self-designed new-type components, featuring a compact structure, elegant appearance, and easy maintenance. Multiple wiring schemes are available for users to choose from.

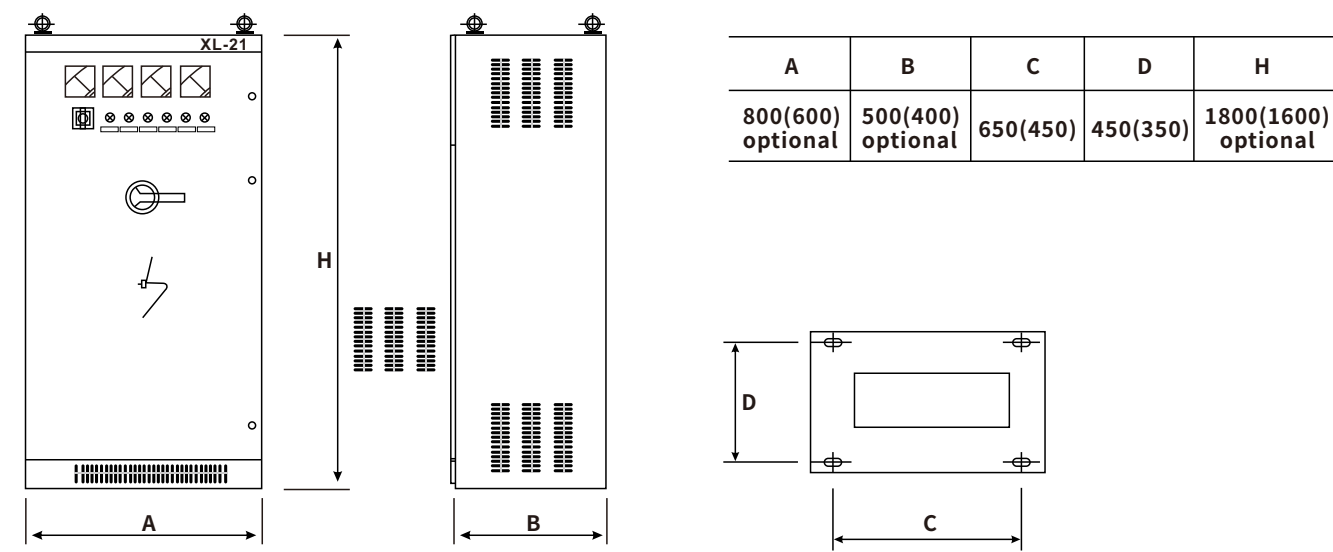
型号及含义/Model and Meaning



技术参数/Technical Parameter

No.	Item Name	Unit	Parameter
1	Main Circuit Rated Voltage	V	AC:380
2	Auxiliary Circuit Rated Voltage	V	AC:220, 380
3	Rated Frequency	HZ	50
4	Rated Insulation Voltage	V	660
5	Rated Current	A	≤800A

安装尺寸图/Outline Dimension





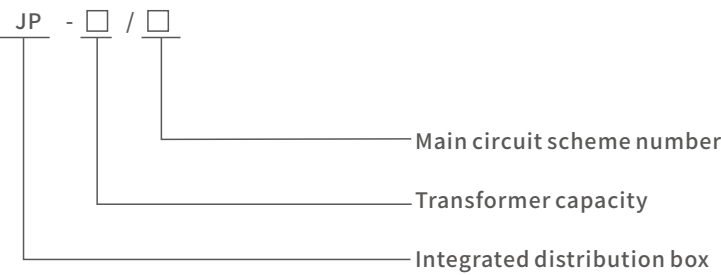
产品概述/Product Overview

The JP series low-voltage integrated distribution box is an outdoor distribution device that integrates multiple functions including metering, outgoing lines and reactive power compensation. It also has protection functions such as short circuit, overload, overvoltage and undervoltage.

Featuring small size, elegant appearance and cost-effectiveness, it is installed on the pole of the pole-mounted transformer for household compensation.

It is a new generation of ideal distribution product for urban and rural power grid transformation.

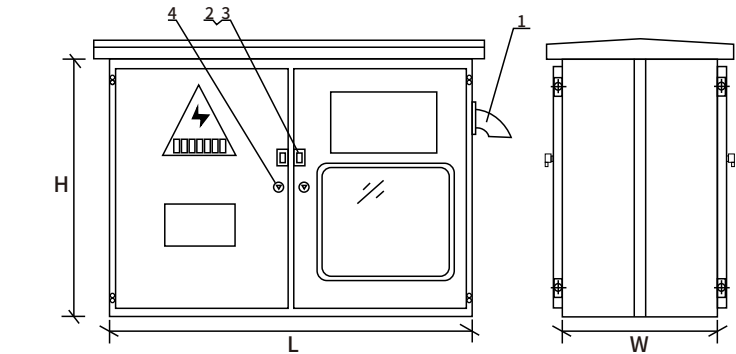
型号及含义/Model and Meaning



技术参数/Technical Parameter

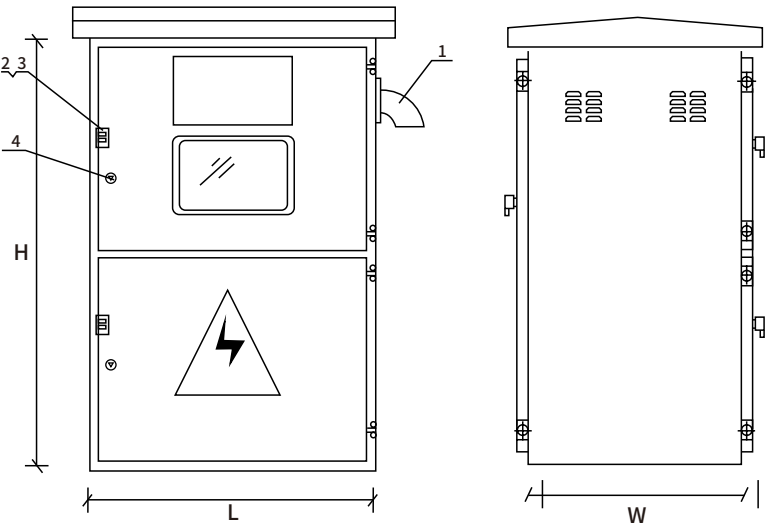
No.	Item Name	Unit	Parameter
1	Transformer Capacity	KVA	30-400
2	Rated Working Voltage	V	AC400
3	Auxiliary Circuit Working Voltage	V	AC220, AC380
4	Rated Frequency	HZ	50
5	Rated Current	A	≤630
6	Rated Drop-Out Operating Current	A	30-300 (ADJ)
7	Protection Level	-	IP44

安装尺寸图/Outline Dimension



Horizontal cabinet outline dimensions

Transformer Capacity	L	W	H
30~100kVA	800	450	700
30~250kVA	900	500	700
100~400kVA	1100	600	800



Vertical cabinet outline dimensions

Transformer Capacity	L	W	H
30~100kVA	600	450	1000
30~250kVA	700	500	1000
100~400kVA	800	600	1100



产品概述/Product Overview

The intelligent outdoor environmental switchgear is an advanced product that adopts 12/24kV outdoor switchgear, voltage transformers (indoor/outdoor mutual inductors) and communication technology. It integrates 12/24kV switches, circuit breakers, load switches, lightning arresters, 12/24kV PTs, monitoring terminals (CCUs), 12/24kV metering & automatic devices, USP power supplies, indicators and other components into a movable, sealed and moisture-proof stainless steel cabinet.

This realizes the integration and modular assembly of primary and secondary systems in urban power grids, shortens the construction period, and greatly improves the operational reliability of urban power grids.

技术参数/Technical Parameter

No.	Item Name			Unit	Technical Requirement	
					Load Switch Cabinet	Combined Electrical Apparatus Cabinet
1	Rated Voltage			kV	12	
2	Rated Frequency			Hz	50	
3	Rated Current			A	630	200
4	Rated Load Breaking Current			A	630	630
5	Rated Short-Time Withstand Current (RMS)			kA	20kA	
6	Duration of Rated Short-Time Withstand Current			s	3	
7	Rated Peak Withstand Current			kA	50/63	
8	Closed-Loop Breaking Current			A	630	
9	Rated No-Load Transformer Breaking Current			A	25	
10	Rated Cable Charging Breaking Current			A	16	
11	Rated Breaking Transfer Current			A	1750	
12	Expected Short-Circuit Breaking Current of Fuse (RMS)			kA	63	
13	Short-Time Withstand Current/Duration of Earthing Switch			kA	25kA/1s	
14	Rated Breaking Operations for Service Life			ops	≥200	
15	Mechanical Current			ops	≥200	
16	SF6 Gas Leakage Rate			-	Not more than 1%	
17	Rated Insulation Level	1-Minute Power Frequency Withstand Voltage (RMS)	Between Breaks	kV	48	
			Between Phases	kV	42	
			Phase-to-Ground	kV	42	
		Lightning Impulse Withstand Voltage (Peak)	Between Breaks	kV	85	
			Between Phases	kV	75	
			Phase-to-Ground	V	75	
18	Spring Operating Mechanism			-	Manual, upgradeable to auto	
19	Operating Voltage			mm/kV	DC 48V/AC 220V	
20	Creepage Distance Ratio of External Insulation			ms	≥20	
21	Opening Asynchronism			ms	Less than 5	
22	Closing Asynchronism			ms	Less than 5	
23	Main Circuit Resistance			μΩ	Less than 140	
24	Cabinet Protection Class			-	IP4X	

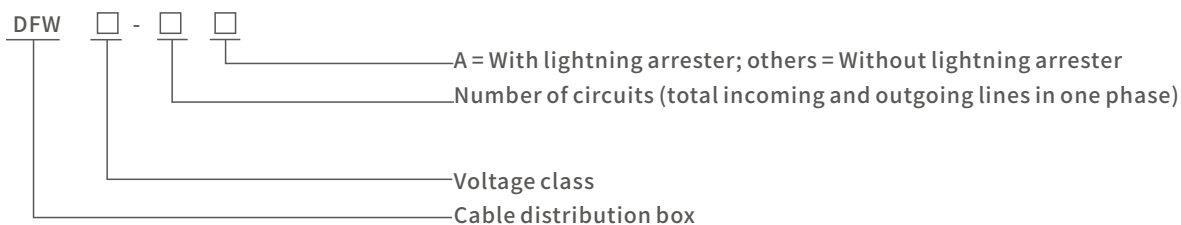


产品概述/Product Overview

The European-style cable joint box is an electrification project equipment widely used in power distribution network systems in recent years. Its main features include double-opening design, using bushings as connection busbars, and advantages such as small length, clear busbar arrangement, and no need for large-angle bending of three-core cables.

The cable joints adopted comply with the DIN47636 standard. Generally, bolt-fixed crimp-type cable joints with a rated current of 630A are used.

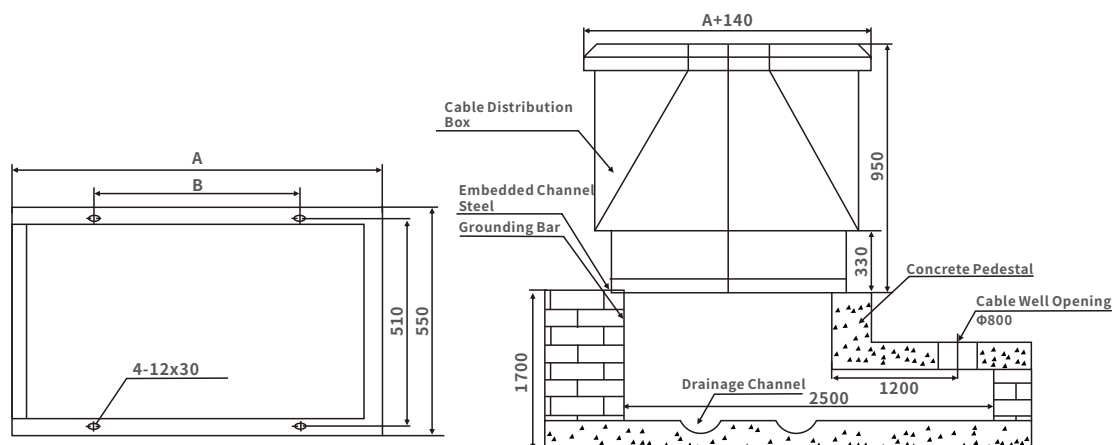
型号及含义/Model and Meaning



技术参数/Technical Parameter

No.	Item Name	Parameter
1	Rated Voltage	12kV
2	Rated Current	630A
3	Dynamic Withstand Current	50kA/0.3s
4	Thermal Withstand Current	20kA/3s
5	1-Minute Power Frequency Withstand Voltage	42kV
6	15-Minute DC Withstand Voltage	52kV
7	Lightning Impulse Withstand Voltage	105kV
8	Cabinet Protection Level	IP33

安装尺寸图/Outline Dimension





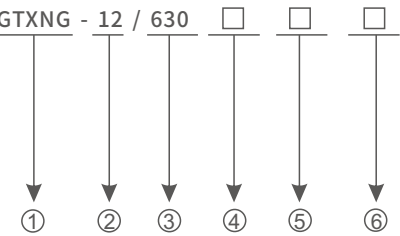
产品概述/Product Overview

The GTXGN-12 series solid fully insulated enclosed ring unit switchgear is a fully insulated, fully sealed, and maintenance-free solid insulated vacuum switchgear. All high-voltage live parts are cast and molded with high-performance epoxy resin material, which organically integrates the vacuum interrupter, main conductive circuit, insulation support, etc. into a single unit. Functional units are connected via fully insulated solid busbars. Therefore, the entire switchgear is not affected by the external environment, ensuring the reliability of equipment operation and the safety of operators.

This ring unit cabinet features a simple structure, flexible operation, reliable interlocking, and easy installation. It is suitable for 50Hz, 12kV power systems and is widely used in industrial and civil cable ring units and distribution unit terminal projects for receiving and distributing electrical energy. It is particularly applicable to locations such as urban residential area distribution systems, small substations, switching stations, cable branch boxes, prefabricated substations, industrial and mining enterprises, shopping malls, airports, subways, wind power plants, hospitals, stadiums, railways, and tunnels.

Thanks to its advantages of full insulation, full sealing, and full shielding, this product is especially suitable for use in harsh environments such as high altitudes, high temperatures, damp heat, extreme cold, and heavily polluted areas.

型号及含义/Model and Meaning

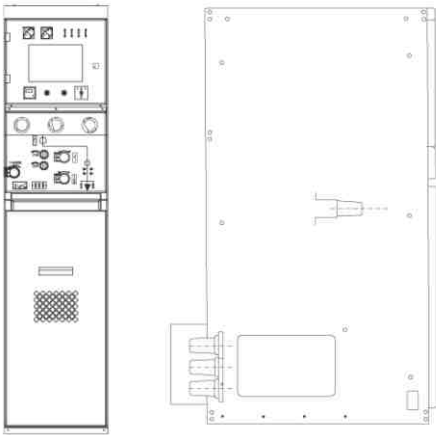


①	Solid fully insulated ring network switchgear
②	Rated voltage (kV)
③	Rated current (A)
④	Switch type: C - Load switch; V - Circuit breaker; G - Isolating switch;
	F - Load switch - Fuse combination electrical switch
⑤	B - Without earthing switch; Z - Straight downward outgoing line
⑥	Rated short-time withstand current (kA)

技术参数/Technical Parameter

No.	Item Name			Unit	Parameter	
1	Rated voltage			kV	12	
2	Rated frequency			Hz	50	
3	Rated current			A	630	
4	Insulation Level	Power Frequency Withstand Voltage	Breaker Port	kV	48	
			Phase-to-Phase	kV	42	
			Phase-to-Ground	kV	42	
		Lightning Impulse Withstand Voltage	Breaker Port	kV	86	
			Phase-to-Phase	kV	75	
			Phase-to-Ground	kV	75	
5	Rated Short-Circuit Breaking Current (1s)			kA	25	31.5
6	Rated Short-Time Withstand Current (4s)			kA	25	31.5
7	Rated Peak Withstand Current (1p)			kA	63	80
8	Rated Short-Circuit Making Current (Peak) (1ma)			kA	63	80
9	Protection Class			-	IP4X	
10	Operation Mode			-	Spring Energy Storage Type	

安装尺寸图/Outline Dimension



	Width(mm)	Depth(mm)	Height(mm)
Load Switch PT Cabinet (CPT)	500	950	1650
Circuit Breaker Cabinet (VB)	400	950	1650
Circuit Breaker Cabinet (V)	400	950	1650
Circuit Breaker Bus Tie Cabinet (VZ)	400	950	1650
Bus Lifting Cabinet (G)	400	950	1650
Load Switch-Fuse Combination Cabinet (F):	500	950	1650

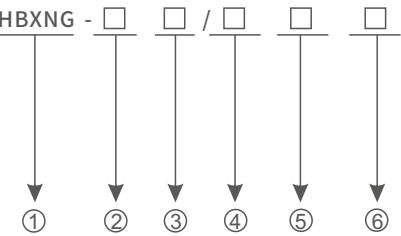


产品概述/Product Overview

HBG-12 series ring network environmentally friendly gas insulated metal-enclosed switchgear uses vacuum interrupters for arc extinguishing. It takes environmentally friendly gas as the main insulation medium, with a small number of solid insulation supports. There is no encapsulation in the main circuit. During normal operation, it is at zero pressure or micro-negative pressure (gas tank pressure $\leq 0.02\text{MPa}$), and its insulation capability between phases and to the ground meets the air insulation requirements under zero pressure.

Environmentally friendly gas insulated metal-enclosed switchgear is a commonly used three-phase AC ring network environmentally friendly gas insulation, and is widely used in various switchgear. With the centralization of domestic population, the power market must be equipped with it. As the market develops, the demand for environmentally friendly gas insulated switchgear will also grow; the market potential remains to be tapped. At the same time, the product integrates data collection and control, data processing and storage, online monitoring of switchgear and advanced analysis into one, enabling online intelligent monitoring and management of the distribution network, keeping the distribution network operating in a safe, reliable, high-quality and efficient optimal state. It realizes remote monitoring, control and management of the distribution network in the power system, meeting the needs of electricity networking, electricity safety, energy management and energy conservation. The system can also be widely used in supporting power distribution fields such as transportation, factories, hospitals, schools, buildings, residential communities and commercial office buildings.

型号及含义/Model and Meaning

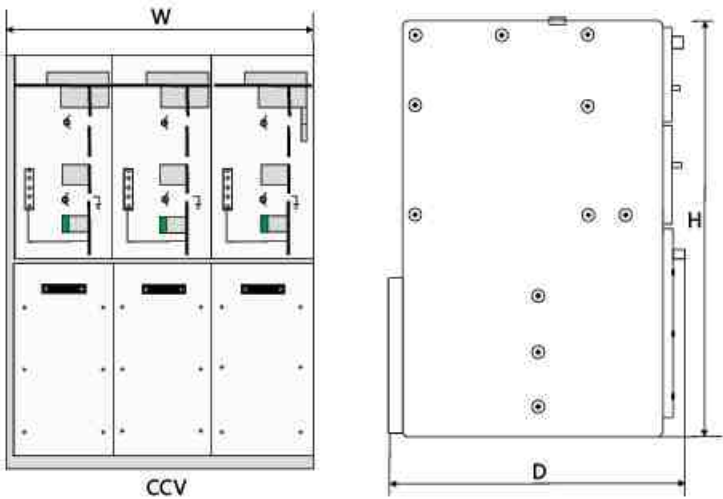


①	Product Model	Notes: The universal cabinet modules for the HXGN-12 series include: C- Load switch module V - Vacuum circuit breaker module F - Load switch - Fuse combination electrical module
②	Rated Voltage	
③	Cabinet Type Module *	
④	Operating Mode	
⑤	Rated Current	
⑥	Breaking Current	

技术参数/Technical Parameter

No.	Item Name	Unit	Parameter			
1	Rated Voltage	kV	12			
2	1min Power Frequency Withstand Voltage	kV	42/48			
3	Lightning Impulse Withstand Voltage	kV	75/85			
4	Rated Current	A	630	125	630	630
5	Breaking Capacity	A	-	-	-	-
	Loop Closing Current	A	630	-	-	-
	Ring Network Charging Breaking Current	A	135	-	-	-
	5% Active Load Breaking Current	A	31.5	-	-	-
	Ground Fault Breaking Current	A	200	-	-	-
	Short-Circuit Break/Make Current	kA	-	31.5	25	-
6	Rated Transfer Current	A	-	1500	-	-
7	Maximum Current of Selected Fuse	A	-	125	-	-
8	Short-Circuit Making Current	kA	63	80	25	-
9	Short-Time Withstand Current	kA	25	-	25	25
10	Short-Time Withstand Duration	s	4	-	4	4
11	Mechanical Life	ops	5000	5000	10000	3000
12	Gas Pressure	Mpa	0.05 (20℃)			
13	Annual Leakage Rate	-	≤0.05%			
14	Operation Mode	-	Vacuum Arc Extinguishing			
15	Protection Class	-	IP67/IPX (Indoor/Outdoor)			

安装尺寸图/Outline Dimension



	1 way	2 way	3 way	4 way	5 way
W(mm)	371	696	1021	1346	1671
H(mm)	1336				
D(mm)	850(total 935)				



产品概述/Product Overview

The SRM□-12 fully enclosed and insulated gas-insulated ring unit switchgear is a completely sealed system, with all live components and switches enclosed in a stainless steel body. The entire switchgear is not affected by external environmental conditions, thus ensuring operational reliability and personal safety. By selecting expandable busbars, arbitrary combinations can be achieved to realize full modularization. The expandable busbars are safely insulated and shielded, ensuring reliability and safety.

The SRM□-12 fully insulated gas-insulated ring unit switchgear can also provide TV-based automation solutions, forming the concept of intelligent switches, and greatly reducing the workload of on-site installation and commissioning.

使用条件/Operating Conditions

- Ambient air temperature: upper limit +40°C, lower limit -15°C;
- Maximum altitude of the equipment installation site: 1000m;
- Ambient humidity: daily average relative humidity $\leq 95\%$, monthly average relative humidity $\leq 90\%$;
- Earthquake intensity not exceeding 8 degrees;
- Ambient air shall be free from significant contamination by corrosive or flammable gases, water vapor, etc.;
- No heavy dirt or frequent severe vibration.

技术参数/Technical Parameter

No.	Item Name	Unit	Parameter			
1	Rated Voltage	kV	12			
2	1min Power Frequency Withstand Voltage	kV	42/48			
3	Lightning Impulse Withstand Voltage	kV	75/85			
4	Rated Current	A	630	125	630	630
5	Breaking Capacity	A	-	-	-	-
	Loop Closing Current	A	630	-	-	-
	Ring Network Charging Breaking Current	A	135	-	-	-
	5% Active Load Breaking Current	A	31.5	-	-	-
	Ground Fault Breaking Current	A	200	-	-	-
	Short-Circuit Break/Make Current	kA	-	31.5	25	-
6	Rated Transfer Current	A	-	1500	-	-
7	Maximum Current of Selected Fuse	A	-	125	-	-
8	Short-Circuit Making Current	kA	63	80	25	-
9	Short-Time Withstand Current	kA	25	-	25	25
10	Short-Time Withstand Duration	s	4	-	4	4
11	Mechanical Life	ops	5000	5000	10000	3000
12	Gas Pressure	Mpa	0.05 (20°C)			
13	Annual Leakage Rate	-	$\leq 0.05\%$			
14	Operation Mode	-	Vacuum Arc Extinguishing			
15	Protection Class	-	IP67/IPX (Indoor/Outdoor)			

安装尺寸图/Outline Dimension

