



Transformer
High/Low Voltage Switchgear

PRODUCT CATALOGUE

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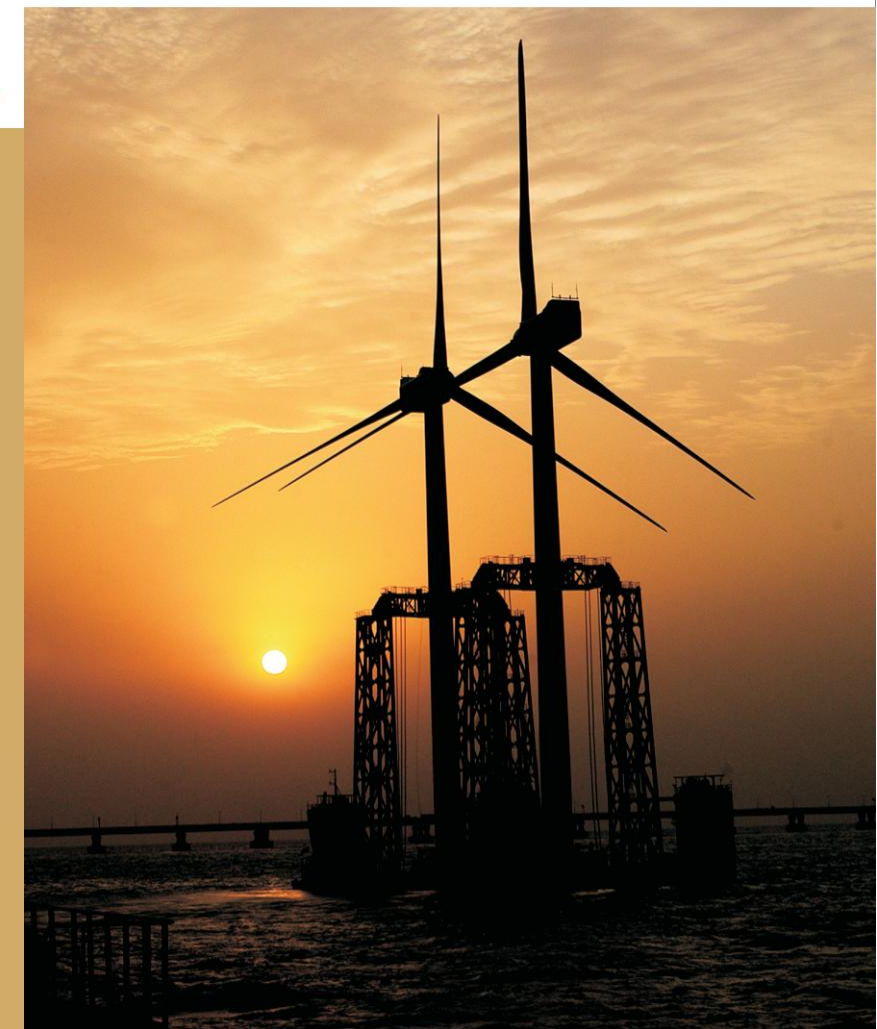
Safe & Reliable



Efficient
Manufacturing



Flexible
Configuration



JIANGXI GUOXIANG ELECTRIC POWER EQUIPMENT CO., LTD.

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JIANGXI GUOXIANG ELECTRIC POWER EQUIPMENT CO., LTD.



Company Profile

Established in 2016 and headquartered in Nanchang Economic Development Zone, Jiangxi Province, Jiangxi GUOXIANG Electric Power Equipment Co., Ltd. is a national high-tech enterprise specializing in comprehensive power solutions. We provide full-cycle services covering R&D, manufacturing, sales, and engineering support. Core products include energy-efficient distribution transformer, high/low-voltage switchgear, substation equipment, and customized electric power solutions, providing reliable infrastructure support for global clients.

Key Milestones

- ◇ 2017: Recognized as a *Scale Enterprise*
- ◇ 2018: Accredited as a *National High-Tech Enterprise*
- ◇ 2020: Designated as a *Technology-Based SME (small medium enterprise)*
- ◇ 2022:
 - Listed on the New Fourth Board (Stock Code: 166106)
 - Awarded Provincial *SSDI Enterprise* (Specialized, Sophisticated, Distinctive, Innovative)
 - Honored as *China Renowned Brand* and *National Key Promotional Unit*
- ◇ Ongoing: Pursuing *National SSDI "Little Giant"* certification

Technical Competence

As a state-certified transformer manufacturer jointly certified by China's economic authorities, power utilities, and machinery industry associations, our products are listed in the National Grid Upgrade Recommended Equipment Catalog. Beyond mandatory CCC certification, we maintain rigorous ISO 9001 quality management and ISO 14001 environmental management systems. Our R&D team integrates 20+ years of industry experts with technical innovators, enabling full-cycle capabilities from material development and structural design to final product validation.

Market-Validated Performance

- ◇ Growth: 40% CAGR sustained since inception
- ◇ Projects: Completed 230+ urban/rural grid modernization projects
- ◇ Clients: 92% Retention rate with State Grid and industrial partners
- ◇ Network: Service network covering many countries and regions around the world

Global Commitment

Guided by the principle "Enterprise Without Borders, Excellence Through Sincerity," we deliver:

- ◇ Premium Products: Rigorous quality control for safety and reliability.
- ◇ Client-Centric Service: Responsive support tailored to global needs.
- ◇ Sustainable Innovation: Committed to eco-friendly manufacturing through green tech R&D and ISO 14001-certified carbon reduction frameworks.

Strategic Vision

As a trusted partner in global power infrastructure, GUOXIANG drives the advancement of intelligent grid ecosystem. Through collaborative innovation and operational excellence, we empower industries worldwide to achieve energy resilience and sustainable development.





Manufacturing base

Located at No. 1066 Wangxian Road, Nanchang, the company operates a modern industrial base spanning 21,510 square meters, integrating smart manufacturing, technological R&D, and sustainable operations. The campus is designed with intelligent production workshops, standardized testing centers, and eco-friendly office areas, equipped with state-of-the-art production lines and precision inspection equipment. Innovative integrated photovoltaic (PV) building designs and clean energy solutions vividly exemplify the deep fusion of industrial manufacturing and ecological harmony, demonstrating the sustainable development philosophy of China's smart manufacturing.



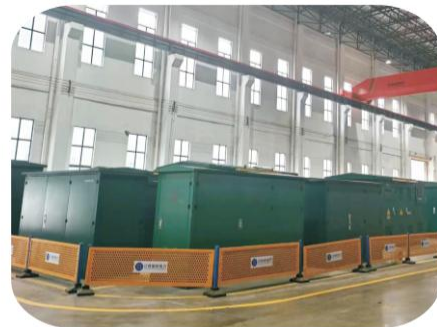
Certificates and Honors

GUOXIANG prioritizes quality management as its core competency, implementing an end-to-end ISO 9001 management system and upholding the policy of "Continuous refinement and improvement." As a first-batch designated enterprise under the national energy-saving program for high-efficiency distribution transformers, it holds certifications including CCC and ISO 14001 environmental management, driving ongoing quality evaluations and technological upgrades. With qualifications such as "Specialized, Sophisticated, Distinctive & Innovative (SSDI)" and "Technology-Based Small and Medium Enterprise", the company stands as a trusted supplier in grid transformation and industrial power distribution, backed by robust quality control expertise.





About production



About production





Application Industries



Metallurgical Industry



Machinery Manufacturing

Power Industry



Construction Industry



Railway Industry



Petroleum Industry

Partners (Partial)

CPFL Paulista (Brazil)	Jiujiang Power Supply Branch	Nanchang Power Supply Branch
State Grid Jiangxi Electric Power Co., Ltd.	Ji'an Power Supply Branch	Ganzhou Power Supply Branch
China Railway 12th Bureau Group Co., Ltd.	Shangrao Power Supply Branch	Yugan County Power Supply Branch
China Railway 14th Bureau Group Co., Ltd.	Tonggu County Power Supply Branch	Fuzhou Power Supply Branch
China National Petroleum Corporation (CNPC)	Dexing City Power Supply Branch	Le'an County Power Supply Branch
China Petroleum & Chemical Corporation (Sinopec)	Yichun Power Supply Branch	Jinxian County Power Supply Branch
Beijing Urban Construction Investment & Development Co., Ltd.	Pingxiang Power Supply Branch	Yingtian Power Supply Branch
Midea Real Estate Group & R&F Group (Hong Kong) Co., Ltd.	Ruichang City Power Supply Branch	Yiyang County Power Supply Branch
China Overseas Land & Investment Group Co., Ltd.	Jingdezhen Power Supply Branch	Northeast Jiangxi Power Supply Branch

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High voltage switchgear series



**Transformer
High/Low Voltage Switchgear**

JIANGXI GUOXIANG ELECTRIC POWER EQUIPMENT CO., LTD.

Armored draw-out AC metal-clad switchgear

KYN61-40.5 Series


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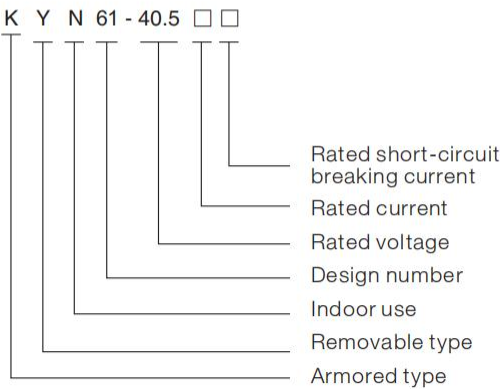
Armored draw-out AC metal-clad switchgear

KYN61-40.5 Series

Product overview

The KYN61-40.5 Armored Draw-out AC Metal-clad Switchgear, is an indoor complete power distribution device for three-phase AC systems with 50Hz frequency and 40.5kV rated voltage. It is used in power plants, substations, industrial and mining enterprises for power reception and distribution, providing circuit control, protection, and monitoring functions, and is suitable for frequent operation scenarios.

Product model definition



Features

- ◇ Assembled modular cabinet structure with floor-mounted truck-type circuit breaker.
- ◇ Equipped with a new-generation vacuum circuit breaker (VCB) with high interchangeability for easy replacement.
- ◇ Smooth truck movement with error-proof mechanism to prevent structural damage.
- ◇ All operations executable with cabinet door closed.
- ◇ Mandatory locks between main switch, truck, and cabinet door, meet "five-proof" safety standards.
- ◇ Multi-cable connection in cable chamber, quick earthing switch for grounding/short-circuit..
- ◇ Protection Class: IP3X for the enclosure; IP2X when the truck chamber door is open.

Technical specifications

Items		Unit	Data	
Rated voltage		kV	40,5	
Rated frequency		Hz	50	
Main bus rated current		A	1250, 1600, 2000	
Branch bus rated current		A	630, 1250, 1600	
Rated insulation	1min power frequency withstand voltage (effective value)	kV	Phase to phase, phase to ground	Primary isolation break
	Lightning impulse withstand voltage (peak value)		95	115
	Auxiliary control circuit 1min power frequency withstand voltage	V	185	215
Rated short-circuit breaking current		kA	25, 31,5	
Rated short-circuit making current (peak value)		kA	63, 80	
Rated short-time withstand current (4s)		kA	25, 31,5	
Rated peak withstand current		kA	63, 80	
Auxiliary control circuit rated voltage		V	- 110, - 220, - 220	
Protection level	Switchgear enclosure		IP4X	
	Compartment room (door open)		IP2X	

Note: The above data is subject to change due to technical improvement.

Armored draw-out AC metal-clad switchgear

KYN28A-12(Z) Series



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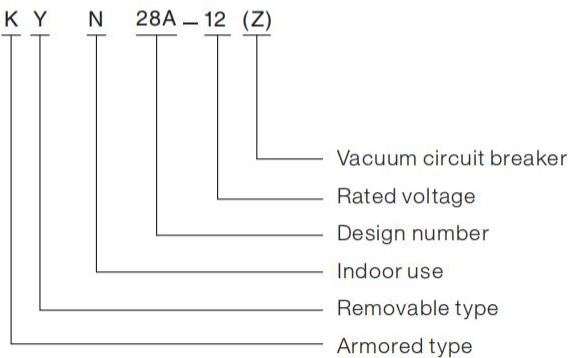
Armored draw-out AC metal-clad switchgear

KYN28A-12(Z) Series

Product overview

The KYN28A Armored Draw-out AC Metal-clad Switchgear is designed for three-phase 50Hz AC power systems, used for power reception, distribution, circuit control, protection, and monitoring.

Product model definition



Operating conditions

- 1. Ambient Temperature: -15°C to +40°C
- 2. Humidity Conditions:
 - ◇ Daily average relative humidity ≤ 95%, daily average vapor pressure ≤ 2.2kPa
 - ◇ Monthly average relative humidity ≤ 95%, monthly average vapor pressure ≤ 1.8kPa
- 3. Altitude: ≤ 1000m
- 4. Seismic Intensity: ≤ 8 degrees
- 5. Surrounding Air: Free from significant contamination by corrosive/flammable gases, water vapor, etc.
- 6. Vibration: Installation site free from frequent severe vibration

Technical specifications

Items			Unit	Data
Rated voltage			kV	3.6, 7.2, 12
Rated frequency			Hz	50
Rated current of circuit breaker			A	630, 1250, 1600, 2000, 2500, 3150, 4000
Rated current of switchgear			A	630, 1250, 1600, 2000, 2500, 3150, 4000
Rated short-time withstand current			kA	16, 20, 25, 31.5, 40, 50
Rated peak withstand current (peak value)			kA	40, 50, 63, 80, 100, 25
Rated short-circuit breaking current			kA	16, 20, 25, 31.5, 40, 50
Rated short-circuit making current (peak value)			kA	40, 50, 63, 80, 100, 25
Rated insulation level	1min power frequency withstand voltage	Phase-to-phase & Phase-to-ground	kV	25, 30, 42
		Isolating break	kV	27, 34, 48
	Lightning impulse withstand voltage (peak)	Phase-to-phase & Phase-to-ground	kV	40, 60, 75
		Isolating break	kV	46, 70, 85
Protection level			Enclosure: IP4X, Compartment room (door open): IP2X	

Note: The above data is subject to change due to technical improvement.

Fully-insulated gas-insulated Ring Main Unit (RMU)

SRM6 Series



Safe & Reliable



Efficient Manufacturing



Flexible Configuration



Fully-insulated gas-insulated Ring Main Unit (RMU)

SRM6 Series

Product overview

Designed for 10kV/6kV power distribution systems, this solution offers modular switching for urban/rural scenarios with flexible configuration (fixed/expandable units and busbar expansion), a maintenance-free IP67-sealed stainless steel gas-insulated body ensuring ≥30 years of reliable operation, optional intelligent automation modules for integrated monitoring to reduce on-site workload, and fully insulated busbars with anti-misoperation interlocking for balanced safety and expandability.

Features

- ◇ Mounted on galvanized steel frame; switch units in 3mm corrosion-resistant non-magnetic stainless steel SF6 chamber (hermetic pressure system, 30-year design life, 0.15-0.4bar working pressure). Chamber features bottom/rear pressure relief.
- ◇ Coaxial rotating double-break mechanism with single-access hole and sliding plate operation, ensuring only "closed/open/earthed" states for anti-misoperation.
- ◇ Front-mounted, anti-corrosion treated for easy manual operation/maintenance; supports electrification upgrades.

Performance instructions

Unit code	Items	Unit code	Meaning of the codes
C	Standard single tube load switch unit	-	Busbar top sleeve
F	Load switch fuse combination electrical unit	SL	Busbar connection unit
V	Circuit breaker unit	M	Measurement unit
D	Cable entry unit (without switch)	PT	PT unit
+	Busbar side sleeve	1K2(4)	Load switch unit with double tube outgoing line

Gas-insulated switchgear (GIS)

HXGN-40.5 Series



Safe & Reliable



Efficient Manufacturing



Flexible Configuration



Gas-insulated switchgear (GIS)

HXGN-40.5 Series

Product overview

The HXGN-40.5 Gas-insulated AC Metal-clad Ring Main Unit (RMU) uses low-pressure SF6 gas as the main insulation medium. It is a new-generation switchgear designed for power reception/distribution, offering control, protection, measurement, monitoring, and communication functions for both normal and fault conditions in power systems. It has broad application prospects in green new energy grid connection, distribution system upgrades, and overseas rail transit projects.

Operating conditions

- ◇ Altitude: ≤2500m
- ◇ Ambient Temperature: -5°C to +40°C
- ◇ Relative Humidity: Daily average ≤85% (at +25°C)
- ◇ Seismic/Vibration: Installation site shall be free from severe vibration, jolts, and vertical inclination not exceeding 5 degrees.
- ◇ Environmental Hazards: No explosion risks

Technical specifications

Items	Unit	Data	
Rated voltage	kV	40.5	
Maximum rated current	A	2000	
Rated breaking current	kA	25	31.5
Rated closing current (peak value)	kA	63	80
Limiting through-current peak value	kA	63	80
Rated short-time withstand current (4s)	kA	25	21.5
Normal dimensions (W×D×H)	mm	1918×3250×3125	
Protection level		IP2X	
Weight	KG	About 1500	

Fixed-type metal-clad ring main switchgear

HXGN□-12 Series



Safe & Reliable



Efficient Manufacturing



Flexible Configuration



Fixed-type metal-clad ring main switchgear

HXGN□-12 Series

Features

- ◇ Easy combination/expansion, compact, safe & reliable.
- ◇ SF6 gas as medium, constant magnetic field rotating arc method (arc-extinguishing independent of current), featuring high breaking performance, low overvoltage, long electrical life, maintenance-free arc chamber.
- ◇ Equipped with miniaturized pressure gauge for multi-functional operation.
- ◇ Reliable mechanism & interlocking system.
- ◇ Passed rated breaking tests at zero SF6 gauge pressure for high reliability.
- ◇ Ground Switch meets national standards for short-circuit making/breaking capacity.
- ◇ Made of imported aluminum-zinc coated steel plates, stamped and assembled for high rigidity and deformation resistance.

Operating conditions

- Altitude: ≤1000m
- Ambient temperature: -35°C to +45°C, maximum daily average temperature difference ≤25°C
- Relative humidity: Daily average ≤95%, monthly average ≤90%
- Seismic resistance: Seismic intensity 8
- Environmental requirements: Free from severe vibration, shock, fire hazards, chemical corrosion, or explosive risks.

Technical specifications

Items		Unit	FN12-12	FZN25-12
Rated voltage			12	
1 min Power frequency withstand voltage		kV	Phase-to-ground &phase-to-phase: 42kV;Isolating break: 48kV	
Lightning impulse voltage (Peak)			Phase-to-ground & phase-to-phase: 75kV (peak); Isolating break: 85kV (peak)	
Rated frequency		Hz	50	
Load switch	Rated current	A	630	
	Breaking capacity of no-load transformer	kVA	1250	
	Rated thermal stable current	kA/S	20/4;Earthing switch20/2	
	Rated dynamic stable current (Peak)	kA	50	
	Rated short-circuit making current (Peak)		50	
	Fuse rated current	A	125	
Combined electrical equipment	Rated transfer current	A	870	
	Rated short-circuit breaking current	kA	20	
	Matching fuse model		S□LAJ-12	
Mechanical life		Times	2000	10000
Auxiliary circuit1 minPower frequency withstand voltage		kV	2	
Working voltage of electric actuator		V	AC/DC 220/110	
Protection level			IP2X	

Fixed-type metal-clad ring main switchgear

HXGN□-24 Series



Safe & Reliable



Efficient Manufacturing



Flexible Configuration



Fixed-type metal-clad ring main switchgear



HXGN□-24 Series

Features

- ◇ Increasing main transformer capacity to enhance substation power supply capability.
- ◇ Improving power transmission capacity of distribution lines and reducing the number of distribution lines.
- ◇ Expanding the power supply radius of medium-voltage lines.
- ◇ Enhancing power supply quality of medium-voltage grids.
- ◇ Reducing power loss in medium-voltage grids.
- ◇ Saving non-ferrous metals and land resources.

Operating conditions

- Altitude: ≤1000m;
- Ambient temperature: -35°C to +40°C, maximum daily temperature difference 25°C;
- Relative humidity: Daily average ≤95%, monthly average ≤90%;
- Seismic resistance: Seismic intensity grade 8;
- System rated frequency: 50Hz;
- SF6 annual leakage rate: ≤0.1%;
- Enclosure protection class: IP3X;

Technical specifications

Items			Unit	Data
Rated voltage			kV	24
Rated frequency			Hz	50
Rated current			A	630
Load switch-Fuse combination cabinet			A	≤100
Rated short-circuit breaking current			kA	31.5
Rated making current (Peak)			kA	50
Rated thermal stable current			kA/S	20/3
Rated dynamic stable current (Peak)			kA	75
Insulation level	Power frequency withstand voltage	Phase to phase & to ground	kV/min	65/1
		Fracture	kV/min	79/1
	Lightning impulse withstand voltage	Phase to phase & to ground	kV	125
		Fracture	kV	145
Rated active load breaking current			A	630
Rated cable charging breaking current			A	25
Main circuit resistance			μΩ	≤300
Rated transfer current			A	870
Mechanical life			Times	Load switch:3000
				Earthing switch:2000
Dimensions (W × D × H)			mm	600×1195×2000

High voltage ring main box (Outdoor switching station)

HHWX-12 Series



Safe & Reliable



Efficient Manufacturing



Flexible Configuration



High voltage ring main box (Outdoor switching station)

HHWX-12 Series

Features

- ◇ Features prefabricated live-touchable silicone rubber cable heads, fully sealed, fully insulated, and maintenance-free to reliably ensure personal safety.
- ◇ Compact structure with a small and aesthetic design, stainless steel double-layer case ensures service life of over 20 years.
- ◇ Enables regional maintenance without affecting main grid operation, narrowing the power outage scope.
- ◇ Can be equipped with one or multiple SF6 load switches, supporting flexible wiring modes with up to 8 outgoing lines.
- ◇ Optional lightning arresters, short-circuit fault indicators, current-limiting fuses, etc., to meet various user requirements.

Range of application

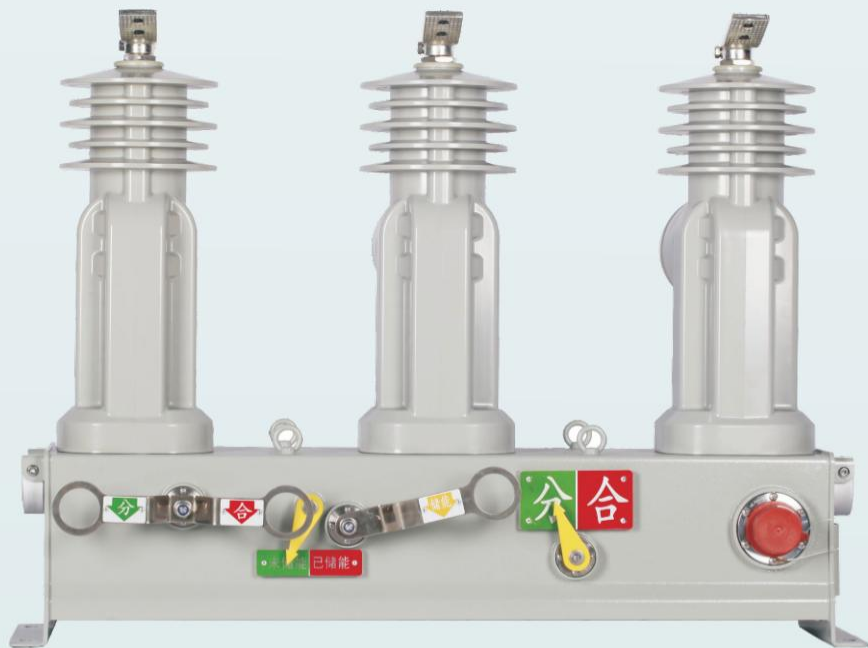
Widely used in urban power grid renovation, residential communities, commercial centers, and other densely populated urban areas.

Technical specifications

Items	Unit	Data
Rated voltage	kV	12
Rated current	A	630
Power frequency withstand voltage (phase-to-phase/to-ground/terminal)	kV/min	42/48
Lightning impulse voltage (phase-to-phase/to-ground/terminal)	kV	75/85
Rated breaking current	A	630
Rated breaking capacitive current	A	45
Rated breaking inductive current	A	16
Ground leakage current (capacitive)	A	165
Rated peak withstand current for 0.3S	kA	50
Rated short-time withstand current for 2S	kA	20
Rated making current	kA	50
Full-load breaking times	Times	>100
Operation times at 50kA (making)	Times	5
Mechanical switching operation times (opening/closing)	Times	2000

12kV Intelligent pole-mounted circuit breaker

ZW32-12/630-20 Series



Product overview

- Adopts a three-phase pillar-type vacuum arc-quenching structure. The solid-insulated pole integrates a vacuum interrupter, sensors, and power-taking components, supporting simultaneous collection of voltage/current signals on both inlet and outlet sides to provide power supply for intelligent feeder terminals.
- ◇ Operation Modes: Miniaturized spring operating mechanism is built into a sealed case, supporting manual, electric, and remote switching operations.
 - ◇ Safety Design: External three-phase interlocking disconnecter equipped with anti-misoperation interlocking device ensures operational safety.
 - ◇ Integrated Design: Fully sealed insulated pole with IP68 protection class adapts to complex outdoor working conditions.

Note: Product parameters are subject to actual delivery.

12kV Intelligent pole-mounted circuit breaker



ZW32-12/630-20 Series

Technical specifications

Item		Unit	ZW32-12/630-20	ZW32-12/630-20G
Arc extinguishing chamber type			Vacuum	Vacuum
Insulating medium			Solid insulation	Solid insulation
Rated voltage		kV	12	12
Rated frequency		Hz	50	50
Rated current		A	630	630
Rated short-time withstand current		kA	20	20
Rated short-circuit breaking current		kA	20	20
Rated peak withstand current		kA	50	50
Rated short-circuit duration		s	4	4
Rated short-circuit breaking current breaking times		Times	≥30	≥30
Rated operating sequence (ratings should not be reduced for rated operating cycles)		-	O-0.3s-CO-180s-CO	O-0.3s-CO-180s-CO
Rated lightning impulse withstand voltage (1.2/50μs, peak value)	Phase-to-phase and phase-to-ground	kV	75	75
	Break	kV	85	85
Rated power frequency short-time withstand voltage (1 min)	Phase-to-phase and phase-to-ground	kV	42	42
	Break	kV	48	48
Partial discharge of the whole machine (including current and voltage sensors and power supply module)	Test voltage	kV	14.4	14.4
	Partial discharge	pC	≤20	≤20
Main circuit resistance		μΩ	≤80	≤130
Mechanical stability		Times	≥10000	
Actuating mechanism type		-	Spring	Spring
Operation mode		-	Electric operation with manual opening/closing capabilities	Electric operation with manual opening/closing capabilities
Operating voltage		V	DC24	DC24
Switch closing time		ms	≤60	≤60
Switch opening time		ms	≤40	≤40
Opening and closing asynchronism		ms	≤2	≤2
Current sensor encapsulated in the pole	Rated current ratio	Phase sequence Zero sequence	600A/1V 20A/0.2V	600A/1V 20A/0.2V
	Accuracy level	Phase sequence Zero sequence	Measurement Class 0.5s, Protection Class 5P10 Class 1, Protection Class 10P10	Measurement Class 0.5s, Protection Class 5P10 Class 1, Protection Class 10P10
	Temperature range	℃	-40℃ ~ 70℃	-40℃ ~ 70℃
	Implementation method	-	Low-power electromagnetic type	Low-power electromagnetic type
Voltage sensor encapsulated in the pole	Rated voltage ratio	Phase sequence Zero sequence	(10kV/√3) / (3.25V/√3) (10kV/√3) / (6.5V/3)	(10kV/√3) / (3.25V/√3) (10kV/√3) / (6.5V/3)
	Accuracy level	Phase sequence Zero sequence	Class 0.5 Class 1	Class 0.5 Class 1
	Temperature range	℃	-40℃ ~ 70℃	-40℃ ~ 70℃
	Implementation method	-	Capacitive voltage division	Capacitive voltage division
	Sampling method	-	Dual-side voltage acquisition (both source and load sides)	Dual-side voltage acquisition (both source and load sides)
Capacitive Power-taking Power Supply Encapsulated in the Pole	Power supply method	-	Built-in capacitive power supply	Built-in capacitive power supply
	Installation method	-	Integrated capacitive power supply cast into the insulation pole	
	Single-phase rated output power	W	≥10±10%	≥10±10%
Remote and local lockout function		-	Optional	Optional
Recloser enable/disable function		-	Optional	Optional
Manual closing lockout		-	N/A	N/A
witch enclosure protection level		-	≤IP67	≤IP67
Switch service life		Year	20	20



Low Voltage Switchgear

MNS Low voltage draw-out switchgear	45-46
GCS Low voltage draw-out switchgear	47-48
GCK Low voltage draw-out switchgear	49-50
GGD AC Low voltage distribution panel	51-52
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Low voltage switchgear series



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Low voltage draw-out switchgear

MNS Series



Safe & Reliable



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Flexible Configuration



Low voltage draw-out switchgear

MNS Series

Product overview

The MNS low-voltage draw-out switchgear is an advanced modular switchgear in China, featuring standardized units and reliable drawer interlocks for safety.

Designed for 3-phase 5-wire systems (AC 50/60Hz, 400V/660V, ≤5000A), it suits power plants, substations, commercial buildings, and telecom centers for power control and reactive compensation via capacitor cabinets.

Complies with GB7251.1 and IEC60439 standards.

Operating conditions

- ◇ Ambient Temperature: -5°C to +40°C, with a 24-hour average ≤+35°C.
- ◇ Atmospheric Conditions: Clean air with relative humidity ≤50% at +40°C. Higher humidity is permitted at lower temperatures (e.g., 90% at +20°C), but temperature variations may occasionally cause condensation.
- ◇ Altitude: ≤2000m.
- ◇ Transport & Storage Temperature: -25°C to +55°C, with short-term(≤24h)peaks up to +70°C. The equipment shall sustain no irrecoverable damage at these limits and shall operate normally under standard conditions.

Note: For applications exceeding the above conditions, please consult our company for customization.

Technical specifications

Items		Unit	Data
Overvoltage category			IV, III
Pollution degree		kV	3
Rated operating voltage (Ue)(V)			400/660
Rated insulation voltage (Ui)(V)		Hz	660/1000
Rated frequency (Hz)		A	50(60)
Horizontal busbar	Rated current	Times	≤5000A
	Rated short-time withstand current (Icw)(kA)	kVA	50, 65, 80(Effective value for 1s)
	Rated peak withstand current (Ipk)(kA)	kA/S	105, 140-176 (Maximum value for 0.1s)
Vertical busbar	Rated maximum operating current	kA	≤1000A
	Rated short-time withstand current	kA	50kA
	Rated peak withstand current	A	105kA
Protection level		A	IP30/IP40(Special Instructions)

Low voltage draw-out switchgear

GCS Series



Safe & Reliable



Efficient Manufacturing



Flexible Configuration



Low voltage draw-out switchgear

GCS Series

Product overview

The GCS device is applicable to power distribution systems in industries such as power plants, petroleum, chemical, metallurgy, textiles, and high-rise buildings. In highly automated venues like large power plants and petrochemical systems requiring computer interfacing, it serves as a low-voltage switchgear assembly for power distribution, motor centralized control, and reactive power compensation in three-phase AC systems with 50 (60) Hz frequency, rated working voltage of 380V (400V)/(660V), and rated current up to 4000A.

Operating conditions

1. Ambient Air Temperature: -5°C to +40°C, with a 24-hour average $\leq$ +35°C. Derating operation is required when exceeding this.
2. Indoor Use: Altitude $\leq$ 2000m.
3. Relative Humidity: $\leq$ 50% at +40°C; higher humidity is permitted at lower temperatures (e.g., 90% at +20°C), with consideration for condensation risks due to temperature variations.
4. Installation Inclination: $\leq$ 5° from vertical, ensuring the panel lineup is level (complying with GBJ232-82).
5. Environmental Requirements: Free from severe vibration, shock, and corrosive conditions that may damage electrical components.

Technical specifications

Items		Data
Rated voltage of the main circuit (V)		AC:380(400), (660)
Rated voltage of auxiliary circuit (V)		AC:220, 380(400) DC:110, 220
Rated frequency (Hz)		50(60)
Rated insulation voltage (V)		660(1000)
Rated current (A)	Horizontal busbar	$\leq$ 4000
	Vertical busbar (MCC)	1000
Rated short-time withstand current of busbar (kA, 1s)		50, 80
Rated peak withstand current of busbar (kA/0.1s)		105, 176
Power frequency test voltage(V/1 min)	Main circuit	2500
	Auxiliary circuit	1760
Busbar	Three-phase four wire	A.B.C.PE.N
	Three-phase five wire	A.B.C.PE.N
Protection level		IP30.IP40

Low voltage draw-out switchgear

GCK Series



Safe & Reliable



Efficient Manufacturing



Flexible Configuration



Low voltage draw-out switchgear

GCK Series

Product overview

The GCK low-voltage draw-out switchgear consists of two parts: Power Center (PC) cabinets and Motor Control Center (MCC) cabinets. Suitable for power distribution systems in power plants, substations, industrial and mining enterprises, etc., it is used for power conversion, distribution, and control of power distribution, motor control, lighting, and other electrical equipment in 50Hz AC systems with a maximum working voltage of 660V and maximum working current of 3150A.

Operating conditions

- 1. Altitude: ≤2000m
- 2. Ambient Temperature: ≤+40°C, with a 24-hour average ≤+35°C; surrounding air temperature ≥-50°C
- 3. Atmospheric Conditions: Clean air with relative humidity ≤50% at +40°C (e.g., 90% at +20°C); free from fire, explosion hazards, severe pollution, chemical corrosion, or severe vibration
- 4. Installation Inclination: ≤5° from vertical
- 5. Transport & Storage Temperature: -25°C to +55°C (short-term ≤24h up to +70°C)

Technical specifications

Items		Data
Rated operating frequency (Hz)		50
Rated working voltage(V)		380, 660
Rated insulation voltage (V)		660
Rated working current (A)	Horizontal busbar	630-3150
	Vertical busbar	600
Rated short-time withstand current	Horizontal busbar	80kA (Effective value)/1 sec
	Vertical busbar	50kA (Effective value)/1 sec
Rated peak withstand current	Horizontal busbar	176kA/0.1s
	Vertical busbar	110kA/0.1s
Main circuit connector (A)		200, 400, 680, 800
Auxiliary circuit connector (A)		10
Power frequency withstand voltage for 1 min (V)		2500
Protection level		IP40
Operation mode		On site, remote, automatic

AC Low voltage distribution panel

GGD Series



Safe & Reliable



Efficient Manufacturing



Flexible Configuration



AC Low voltage distribution panel

GGD Series

Product overview

The GGD AC low-voltage power distribution cabinet is designed for 50Hz AC systems (380V rated voltage, up to 3150A rated current) in power plants, substations, and industrial sites, enabling power conversion, distribution, and control for motive, lighting, and electrical equipment. Engineered for safety, economy, and reliability, this new-generation cabinet features high breaking capacity, excellent thermal-magnetic stability, flexible electrical configurations, and IP-rated protection, complying with IEC 439 and GB 7251 standards.

Operating conditions

1. Relative Humidity: $\leq 50\%$ at $+40^{\circ}\text{C}$ (e.g., 90% at $+20^{\circ}\text{C}$), with consideration for occasional condensation due to temperature fluctuations.
2. Installation Inclination: $\leq 5^{\circ}$ from vertical.
3. Environmental Requirements: Free from severe vibration, shock, and corrosive conditions that may damage electrical components.

Technical specifications

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			

Intelligent reactive power compensation panel

GGJ Series



Safe & Reliable



Efficient Manufacturing



Flexible Configuration



Intelligent reactive power compensation panel

GGJ Series

Product overview

The GGJ low-voltage intelligent reactive power compensation cabinet is designed for power grid applications, leveraging intelligent control technology to:

- 1.Solve automatic shunt capacitor switching under harmonic conditions.
- 2.Filter harmonics, clean the grid, reduce losses, and eliminate harmonic hazards.
- 3.Provide capacitive reactive power to improve power factor.

Suitable for power distribution systems in industries like electricity, metallurgy, petrochemicals, and construction.

Features

- ◇ Zero-voltage Switching: Enables surge-free, impact-free capacitor switching for frequent/rapid operations.
- ◇ Fast Response: Tracks reactive power changes in real-time with dynamic/static switching.
- ◇ Auto/Manual Control: Enhances compensation accuracy via frequent-operation capacitor switching.
- ◇ Thermal Management: Roof-mounted fans with temperature control maintain optimal internal conditions.
- ◇ Comprehensive Protection: Includes short-circuit, overload, over-voltage, under-voltage, and phase-loss protection with easy settings.

Operating conditions

- 1. Altitude:≤2000m
- 2. Ambient Temperature: -25°C to +40°C
- 3. Relative Humidity:≤90% (at 20°C)
- 4. Environmental Requirements: Free from flammable/explosive materials, corrosive gases, and conductive dust; no severe vibration/jolts, installation inclination≤5°.

Technical specifications

Items	Data
Rated voltage	400V, 660V, 1000V
Rated frequency	50Hz
Rated capacity	30-1000VA
Operating voltage range	0.8-1.1 Un
Capacitor connection method	Y or Δ
Measurement error	Voltage: +0.5%, Cureent: ±1%, Reactive: ±1%
Switching method	Automatic switching based on harmonic voltage or power factor
Switching delay	0-999s adjustable

DC Power supply cabinet

GZDW Series



Safe & Reliable



Efficient Manufacturing



Flexible Configuration



DC Power supply cabinet

GZDW Series

Product overview

The GZDW series DC power supply cabinets are applied in power plants and substations of all sizes, providing DC power for high-voltage switch tripping/closing, relay protection, automatic control, emergency lighting, and audio-visual signals under normal and emergency conditions. They also serve DC power needs in industries like metallurgy, rail, mining, petrochemicals, telecommunications, healthcare, and high-rise buildings. The microcomputer-controlled models are suitable for unattended, remotely monitored DC power systems in power plants, substations, and other sectors.

Operating conditions

- 1. Altitude: ≤2000m
- 2. Ambient Temperature: -5°C to +40°C
- 3. Relative Humidity: ≤95% (at 20±5°C)

Technical specifications

Items	Data
Input supply voltage	3-Phase AC 380±10%, 50Hz±5%
Rated output DC voltage	24V, 48V, 110V, 220V
Rated output DC current	5A, 8A, 10A, 15A, 20A, 30A, 40A, 50A, 80A, 100A, 150A, 200A, 250A
Rated battery capacity	10Ah, 20Ah, 38Ah, 40Ah, 50Ah, 60Ah, 65Ah, 80Ah, 100Ah, 150Ah, 200Ah, 250Ah, 300Ah, 400Ah
Voltage regulation range	See the table below
Output DC current regulation range	0-100% of the rating
Voltage regulation accuracy	< ± 1%
Current regulation accuracy	< ± 1%
Ripple coefficient	<1%
Overall noise	< 55dB
Main transformer temperature rise	70°C
Operation mode	Continuous operation
Efficiency	90%
Protection level	IP20~IP30

Rated output DC voltage	24V	48V	110V	220V
Float charging voltage regulation range	21-28	43-57	99-130	198-260
Equalizing charging voltage regulation range	27-31	54-62	125-140	198-286
Main charging voltage regulation range	21-36	43-70	99-162	187-310

Outdoor integrated distribution box

JP Series



Safe & Reliable



Efficient Manufacturing



Flexible Configuration



Outdoor integrated distribution box

JP Series

Product overview

The JP outdoor integrated power distribution cabinet is a multi-functional outdoor device integrating metering, outgoing lines, reactive power compensation, etc. It features protection against short circuit, overload, overvoltage, leakage, etc. With a compact, aesthetic, and cost-effective design, it mounts on poles of outdoor pad-mounted transformers, serving as an ideal next-generation distribution solution for urban-rural power grid renovation.

Operating conditions

- 1. Ambient Temperature: -25°C to +40°C
- 2. Relative Humidity: Daily average≤90%, monthly average≤90%
- 3. Altitude: ≤1000m
- 4. Installation Environment: Free from severe vibration, shock, and corrosive gases.

Technical specifications

Items	Unit	Data
Transformer capacity	kVA	30-400
Rated working voltage	V	AC400
Auxiliary circuit operating voltage	V	AC220, AC380
Rated frequency	Hz	50
Rated current	A	≤630
Rated operating current	A	30-300Adjustable
Protection level		IP44

Power distribution panel

XL-21 Series



Safe & Reliable



Efficient Manufacturing



Flexible Configuration



Power distribution panel

XL-21 Series

Product overview

The XL-21 power distribution cabinet is widely used in power plants and industrial enterprises for motive/lighting power distribution in three-phase AC systems (below 500V, three-wire/four-wire/five-wire). It features indoor wall-mounted installation with front operation/maintenance, a fully enclosed structure assembled from C-profile or 8MF-profile. Equipped with a new rotary load disconnecter switch for on-load operation, the cabinet integrates voltage/current meters, signal lights, buttons, and switches on the front panel. Its self-designed compact components ensure aesthetic design and easy maintenance, offering multiple wiring schemes for user selection.

Operating conditions

1. Ambient Temperature: -5°C to +40°C, with a 24-hour average $\leq$ +35°C.
2. Altitude: $\leq$ 2000m.
3. Relative Humidity: $\leq$ 50% at +40°C; higher humidity is permitted at lower temperatures (e.g., 90% at +20°C), allowing moderate condensation due to temperature variations.
4. Installation Inclination: $\leq$ 5° from vertical.
5. Environmental Requirements: Free from severe vibration, shock, and corrosive conditions.

Technical specifications

Items	Unit	Data
Rated voltage of the main circuit	V	AC:380
Rated voltage of auxiliary circuit	V	AC:220, 380
Rated frequency	Hz	50
Rated insulation voltage	V	660
Rated current	A	$\leq$ 800A

Control box

JXF Series



Safe & Reliable



Efficient Manufacturing



Flexible Configuration



Control box

JXF Series

Product overview

The JXF control panel is suitable for 50Hz three-phase three-wire/four-wire/wireless systems($\leq 500V$, load current $\leq 250A$), providing distribution system control, leakage protection, and motor protection against overload, short circuit, and phase loss. With a compact, aesthetic design ensuring safe and reliable operation, it is widely used in metallurgy, petrochemicals, healthcare, aviation, residential areas, commercial centers, schools, and urban renovation projects.

Operating conditions

1. Ambient Temperature: $-25^{\circ}C$ to $+40^{\circ}C$
2. Altitude: $\leq 2000m$
3. Relative Humidity: Monthly average $\leq 40\%$ at $+20^{\circ}C$
4. Vibration/Shock: Free from severe vibration and impact.
5. Environmental Hazards: No explosive risks; free from corrosive gases or conductive dust that may damage metal/insulation.

Technical specifications

Spec	Height	Width	Depth	Thickness	Structure features
2520/14	250	200	140	1.2	The JXF series is available in two installation types: surface-mounted and flush-mounted. The JFF series is divided into two door types: metal door and door with transparent window. The door panels are fitted with rubber sealing strips to prevent rainwater ingress. The enclosure is equipped with top and bottom cable entry knockouts and a flush-mounted mounting plate. The cable entry knockouts come with factory-installed sealing plates. The door opening angle exceeds 90°. There are 25 specifications for both JXF and JFF1, and 18 specifications for JFF2.
3025/14	300	250	140		
3025/18	300	250	180		
3030/14	300	300	140		
3030/18	300	300	180		
4030/14	400	300	140		
4030/20	400	300	200		
5040/14	500	400	140		
5040/20	500	400	200		
5040/23	500	400	230		
6040/14	600	400	140		
6040/20	600	400	200		
6040/23	600	400	230		
6050/14	600	500	140		
6050/20	600	500	200		
6050/23	600	500	230		
7050/16	700	500	160	1.5	
7050/20	700	500	200		
7050/23	700	500	230		
8060/20	800	600	200		
8060/23	800	600	230		
8060/25	800	600	250		
10080/20	1000	800	200		
10080/25	1000	800	250		
10080/30	1000	800	300		

Note: Enclosure dimensions can be determined according to the drawings provided by the customer.

Low voltage cable branch box

DFX Series



Safe & Reliable



Efficient Manufacturing



Flexible Configuration



Low voltage cable branch box

DFX Series

Product overview

The DFX low-voltage cable distribution box, molded from SMC composite via high-temperature compression, offers exceptional impact/bend resistance, anti-aging, abrasion/corrosion tolerance, and high insulation/arc/flame resistance. Its compact design ensures easy installation and durability for harsh outdoor environments. Fitted with knife-fuse switches, MCCBs, strip switches, and busbars, it serves dry cable branching and feeder protection in urban-rural grids, municipal projects, and residential/high-rise applications.

Features

- ◇ Compact design meeting creepage distance requirements, with exquisite appearance, small size, light weight, and easy installation.
- ◇ High insulation resistance and power frequency dielectric strength, ensuring high safety as an electrical enclosure—preferred for grid renovation.
- ◇ Excellent corrosion resistance against dilute acids, alkalis, salts, various oils, organic solvents, and seawater.
- ◇ Strong anti-aging performance with a service life of over 30 years.
- ◇ Good impact resistance and machinability, difficult to damage.
- ◇ No grounding required for the insulated case, saving installation labor and costs.
- ◇ Equipped with special insulating supports inside and a dedicated lock on the door (with a second padlock provided).

Operating conditions

1. Ambient Temperature: -35°C to +45°C, with a 24-hour average temperature difference ≤35°C.
2. Altitude: ≤2000m.
3. Relative Humidity: ≤50% at +45°C; higher humidity is permitted at lower temperatures (e.g., 80% at +22°C), with consideration for occasional condensation due to temperature variations.
4. Installation Site: Free from severe vibration, shock, and corrosive conditions that may damage electrical components.
5. Special Conditions: Custom solutions shall be negotiated between the user and our company.

Technical specifications

Items		Data
Rated operating voltage		AC 3800V
Rated operating frequency		50Hz(60Hz)
Rated insulation voltage		AC 800V
Rated operating current		100A, 200A, 400A, 630A, 800A, 1000A
Rated short-circuit strength		50 kA
Enclosure protection grade		IP44
Box busbars are copper, supported by high-quality resin-molded brackets. The distribution box uses copper busbars with matching insulated brackets.	200A	Copper busbar30*3
	400A	Copper busbar40*4
	630A	Copper busbar50*5
	800A	Copper busbar60*6