



## Company profile:

WenZhou ENBOLI Electric co., Ltd was established in 1998. The company's existing industrial park is 30 acres and the factory area is 70,000 square meters. Its subsidiaries are engaged in power transformers below 110KV, high-voltage components below 110KV, complete sets of electrical appliances below 35KV, power fittings, wires and cables, fuses, distribution boxes and other power transmission and distribution products.



The company has 1,200 employees, including 50 managers and 12 technicians. The annual production amount reaches 380 million. The key processes of the products use automatic monitoring instruments and equipment, and advanced SAP management software is introduced to digitally manage the production and operation process.

The company has KEMA international certification, ISO9001 quality management system certification, IOS14001 environmental management system certification, OHSAS18001 occupational health and safety management and other system certifications, and has passed the International Electrotechnical Association (IEC) CE, American TUL and other international system certifications.





恩波利  
ENBOLI

## Production workshop

The first-class talent, first-class technology, first-class facilities and a first-class management system forward a first-class production line. In order to ensure a highly efficient operation of the first production line, the company adopts multimodes and multi-means of management to enhance the working efficiency. We train the technical personnel to perfect equipment operation and advance automatic technology skills. We also actively implement the "6S" policy to energize logistics management and the effectiveness of each post, forming a common awareness of efficient and high-quality production, so as to promote the development of economic system of our company.



Assembly workshop



Core Workshop



Winding Workshop



H.V Testing Hall

## KYN61-40.5(Z) Overview

KYN61-40.5(Z) type alternating-current metal-clad and metal-enclosed withdrawable switchgear (hereinafter referred to as switchgear) is a indoor complete set of power distribution unit of three-phase AC50Hz and rated voltage of 40.5kV. Used for receiving and distributing the electric energy in power plants, transformer substations, mining and industrial enterprises, etc., it controls, protects and detects the circuits, also is applicable to frequent operation locations. This switchgear complies with GB/T11022-1999, GB3906-1991, DL404-1997, etc.



## High voltage switchgear series

### KYN61-40.5(Z) Main feature

1. Cabinet structure is of assembly type, the circuit breaker adopts floor type handcart structure;
2. Equipped with brand new composite insulated vacuum circuit breaker, is featured with good interchangeability, and is simple to change;
3. The handcart frame is mounted with lead screw nut propelling mechanism, it is able to move the handcart easily, and prevent damage of propelling mechanism caused by misoperation;
4. All operations can be carried out when the cabinet door is closed;
5. Interlocking among the main switch, handcart and switchgear adopts compulsory mechanical locking mode, meeting the "five preventions" function;
6. Cable chamber is large enough, it could connect multi cables;
7. The fast earthing switch is used for earthing and circuit short-circuit;
8. Degree of protection of the enclosure is IP3X, and is IP2X when the door of handcart chamber is opened;
9. The product complies with GB3906-1991, DL404-1997 and refers to the international standard IEC-298.

## KYN61-40.5(Z) Use environmental conditions

1. Ambient temperature:  $-10^{\circ}\text{C} \sim +40^{\circ}\text{C}$ , mean value measured within 24h should not exceed  $35^{\circ}\text{C}$ .
2. Altitude: not exceed 1000m;
3. Relative humidity: daily mean not over 95%, monthly mean not over 90%;
4. Seismic intensity: not beyond Ms8;
5. Vapor pressure: daily mean not over 2.2kPa, monthly mean not over 1.8kPa.
6. Ambient environment: the installation site should be free of fire, explosive danger, serious pollution, chemical corrosion or severe vibration.

## KYN61-40.5(Z) Main technical parameters

Name	Unit	value
Rated voltage	kV	40.5
Rated current	A	1250 1600 2000
Rated frequency	Hz	50
Rated short-time withstand current	kA	20 25 31.5
Rated peak withstand current	kA	50 63 80
Rated power frequency withstand voltage	kV	95/1min
Rated lightning impulse withstand voltage	kV	185
Rated short-circuit duration	s	4
Degree of protection		IP3X

## KYN61-40.5(Z) Main technical parameters

Name	Unit	value
Rated voltage	kV	40.5
Rated frequency	Hz	50
Rated power frequency withstand voltage	kV	95/1min
Rated lightning impulse withstand voltage	kV	185
Rated current	A	1250 1600 2000
Rated short-time withstand current	kA	20 25 31.5
Rated short-time breaking current	kA	20 25 31.5
Rated peak withstand current	kA	50 63 80
Rated short-circuit duration	ms	4
Opening time	ms	$30 \leq t \leq 50$
Closing time	s	$50 \leq t \leq 100$
Rated short-circuit breaking current times	times	20
Mechanical life	times	10000

## KYN61-40.5(Z) Main technical parameters

Name	Unit	value	
Rated operating voltage	Opening coil	V	DC220/110, AC220/110
	Closing coil		
Rated operating current	Opening coil	A	0.96(210V), 1.05(110V)
	Closing coil		
Power of energy-storage motor	W		230
Rated voltage of energy-storage motor	V		DC220/110, AC220/110
Energy-storage time	S		$\leq 12$

## KYN28-24(Z) Overview

KYN28-24(Z) series alternating-current metal-clad and metal-enclosed with drawable switchgear (hereinafter referred to as "switchgear") is a complete set of power distribution unit of three-phase single bus and single bus section system of 20kV and AC50(60)Hz.

This switchgear is mainly applicable to power plants, power transmitting of middle and small sized generators, distribution of industrial and mining enterprises, electricity receiving and transmitting of secondary substations, as well as starting of large high-voltage motors, etc, realizes control protection and monitoring.

It has "five preventions", it prevents on-load pushing or pulling circuit breaker's handcart, prevents making or breaking circuit breaker by mistake, prevents closing circuit breaker when the earthing switch is at closing position, prevents entering into live compartment by mistake, and prevents closing earthing switch under live condition. It can be equipped with the NV1-24 type vacuum circuit breaker developed by our company, it really is an ideal distribution equipment with perfect performances.

It complies with the standards GB 3906, GB/T 11022 and IEC 60298.



## High voltage switchgear series

### KYN28-24(Z) Model and meaning

K Y N □ - 24 (Z) / □ - □ □ □

- Environmental features
- Scheme No.
- Rated short-circuit breaking current
- Rated current
- Vacuum circuit breaker
- Rated voltage
- Design No.
- Indoor purposed
- Withdrawable
- Metal clad

## KYN28-24(Z) Use environmental conditions

1. Ambient air temperature:  $-15^{\circ}\text{C} \sim 40^{\circ}\text{C}$ ;
2. Altitude:  $\leq 1000\text{m}$ ;
3. Relative humidity: daily mean relative humidity not over 95%, monthly mean not over 90%;
4. Seismic intensity: not beyond Ms8;
5. The installation site should be free of fire, explosive danger, serious pollution, chemical corrosion or severe vibration.
6. If the product is intended for locations beyond the normal service conditions stipulated by GB1986, please negotiate with our company.

## KYN28-24(Z) The main technical parameters

Name	Unit	Data
		Matched circuit breaker: NV1-24
Rated voltage	kV	24
1min power frequency withstand voltage	kV	(50)65
Rated impulse withstand voltage (peak)	kV	125
Rated frequency	Hz	50(60)
Rated current	A	630 1250 1600 2000 2500 3150
Rated current of branch bus	A	630 1250 1600 2000 2500
Rated short-time withstand current	kA	16 20 25 31.5
Rated peak withstand current	kA	40 50 63 80
Rated short-circuit duration	s	4
Degree of protection		The enclosure is IP4X, it is IP2X when the compartment door and circuit breaker chamber door are opened
Mass	kg	800 1000 (Rated current 1600A above)

## KYN28-24(Z) Product structure performance characteristics

### 1. Switchgear of 24kV with compact volume

Structure of this product is similar to that of mid-set switchgear of 12kV, the product is applicable to systems of 24kV, need not composite insulation or interphase separator, with outstanding insulation performance.

### 2. Safe structure, flexible installation

This switchgear is composed of cabinet body and mid-set withdrawable part (i.e. handcart) two parts. The cabinet body is divided into four separate compartments, degree of protection of the enclosure is IP4X, and the protection degree is IP2X when compartment doors and circuit breaker chamber door are opened. It has overhead incoming and outgoing lines, cable incoming and outgoing lines and other function schemes, it can become power distribution unit of different schemes and forms after permutation and combination. This switchgear can be installed, debugged and maintained from the front side, so it can be arranged in duplex by means of back-to-back or arranged against the wall, which not only improves its safety and flexibility, but also reduces the floor space.

## KYN28A-12 Overview

This equipment is indoor metal armoring with drawable switching gear (hereafter refer to as switchgear). 3.6-12kilovolt three phase AC 50Hz single bus bar and the single bus bar subsection system's complete electricity distribution equipment is used in the power plant, small and medium-sized generator power transmission, industry and mining business power distribution as well as electrical industry system's second transformer substation's electric take-over, power transmission and large-scale high pressure motor starting and so on. The purpose is to control, protect and monitor. This switch equipment is up to the standard of IEC298、GB3906 and can prevent the charge from pushing and pulling the breaker, from opening and closing the breaker, from insulation with electricity by mistaken, from earthed switch closing the breaker, from opening the switch's interlock when it with electricity mistakenly. It can not only use with VSI vacuum circuit-breaker, but with ABB Corporation's VD4 vacuum circuit-breaker. It is indeed a kind of power distribution equipment with superior performance.



## High voltage switchgear series

### KYN28A-12 Use environmental conditions

#### 1. Normal condition

- ◆ Surrounding air temperature: -10°C~ +40°C
- ◆ Altitude: 1000M
- ◆ Relative environment humidity: The daily relative humidity average is not higher than 95%, the monthly relative humidity average is not than higher 90%
- ◆ Earthquake: The intensity does not exceed 8 degree.
- ◆ The surrounding air without corrosive or flammable gas or water vapour.
- ◆ Without a lot of dirtiness and regular fierce vibration, under the severe condition, the intensity meets the first kind requirement.

#### 2. special working conditions

When it is used beyond the normal environmental condition stipulated in the GB3906, the user should consult with the manufacture.



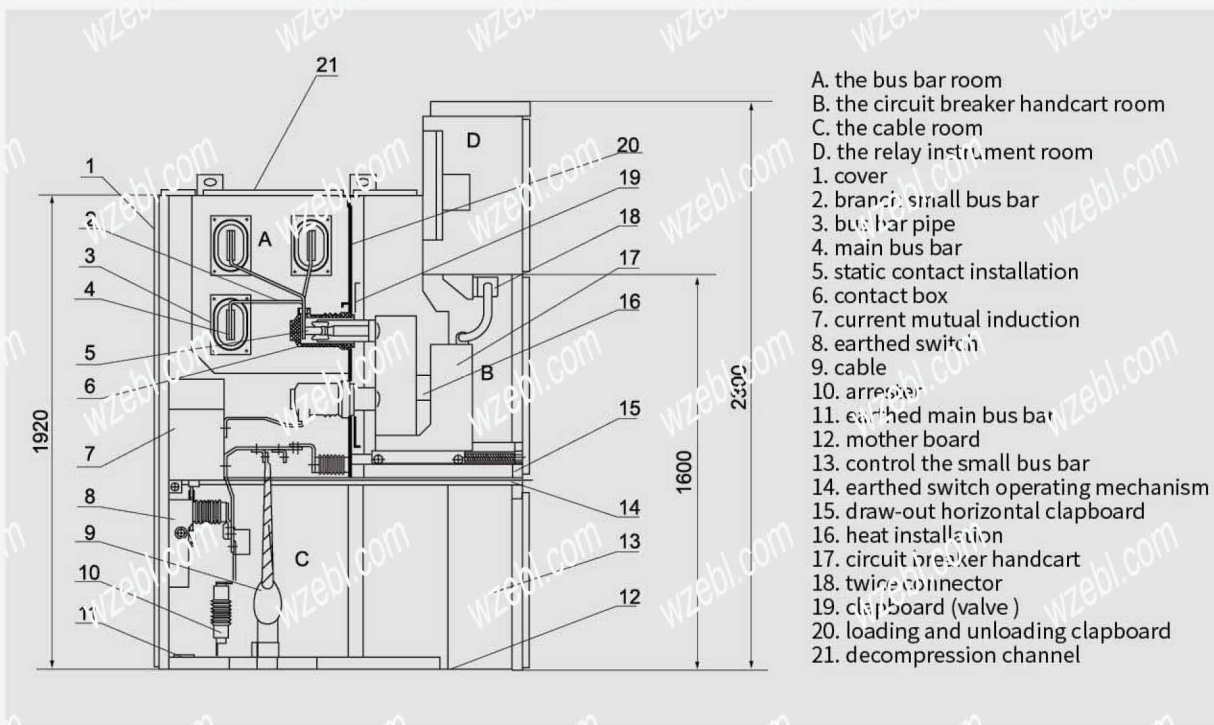
## KYN28A-12 The main technical parameters

Item	Unit	Data	
		equipped with breaker	
		ZN63A-12(VS1)	VD4
Rated voltage	kV	12	12
1min working frequency endurable voltage	kV	42	42
Shock endurable rated voltage (Peak)	kV	75	75
Rated frequency	Hz	50	50
Rated current	A	630、1250、1600、2000、2500、3150、4000、5000	
Branch bus bar rated current	A	630、1250、1600、2000、2500、3150、4000、5000	
Rated short time endurable current (virtual value)	kA	16、20、25、31.5、40、50	16、20、25、31.5、40、50
Rated peak endurable voltage	kA	40、50、63、80、100、125	40、50、63、80、100、125
Rated short-circuit duration	s	4	
Protection degree		The enclosure is IP4X, and the compartment door and the handcart compartment door are IP2X when opened	
Quality	kg	700~1200	700~1200

## KYN28A-12 Structure Introduction

The switch equipment is designed according to GB3906-91 metal armoring seal switch equipment. The rectifier body is made up of the cabinet body and draw-out parts (namely handcart) placed in the middle. See chapter 1. The cabinet divides into four separate rooms, the outer covering protection grade is IP4X, when each small room and the circuit breaker is opened, the protection grade is IP2X. It can suspend the inlet, outlet line, cable's inlet, outlet line and other function plan. After arranged and combined, it can become each kind of plan form of the power distribution equipment. This switch equipment may be installed and maintained from the frontage, therefore it may compose the dual arrangement back to back and be installed against the wall, improving the switch equipment's security and flexibility and making full use of the occupying area.

## KYN28A-12 Switchgear structure diagram



## XGN66-12 Overview

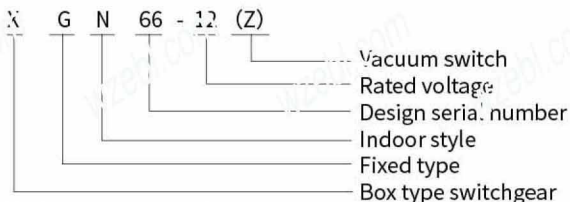
XGN66-12 fixed closed switchgear (hereinafter referred to as switchgear) is a new generation of high-voltage electrical complete sets of our company, in line with national standard GB3906 "3-35kV AC metal-enclosed switchgear" Power Department DL404 "Indoor AC high voltage switchgear order The requirements of Technical Conditions also meet the requirements of the international standard IEC60298 "AC metal-enclosed switchgear and control equipment below 1kV below 52kV".

The product absorbs foreign advanced technology, its small size is only 50% of the volume of the ordinary switchgear; the circuit breaker has high reliability and good performance, the "five-proof" interlocking mechanism is reliable and simple. The switchgear is a 3.6, 7.2, 12kV three-phase AC 50Hz single busbar segmented indoor unit for receiving and distributing electrical energy. It has the functions of controlling, protecting and monitoring the circuit. It can be used in various types of power plants, substations, industrial and mining enterprises, high-rise buildings, etc., and can also be combined with ring network cabinets for use in opening and closing.



## High voltage switchgear series

### XGN66-12 Model and meaning



### XGN66-12 Use environmental conditions

1. The altitude does not exceed 1000m.
2. Ambient temperature:  $-25^{\circ}\text{C} \sim +40^{\circ}\text{C}$ , the average temperature within 24 hours does not exceed  $+35^{\circ}\text{C}$ .
3. The horizontal inclination is no more than 3 degrees.
4. The intensity of the earthquake does not exceed 8 levels.
5. No severe vibration and shock and explosion hazard.

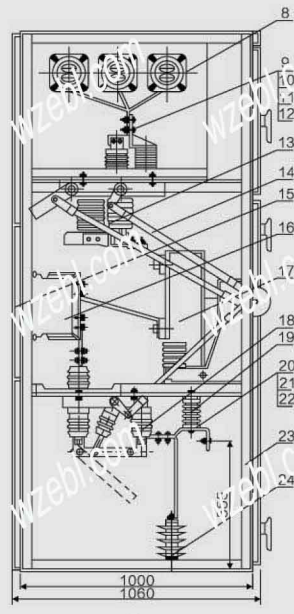
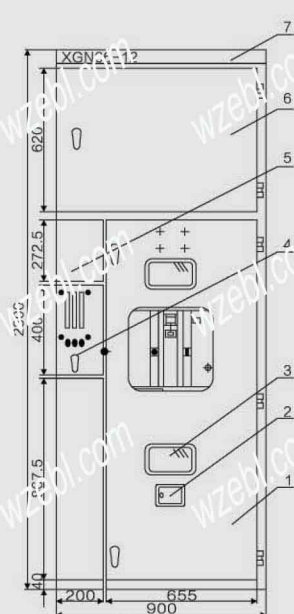
## XGN66-12 Structural features

1. The cabinet is welded with high quality angle steel.
2. The circuit breaker room is located in the middle (lower part) of the cabinet, which is convenient for installation, commissioning and maintenance. The standard VS1 circuit breaker is equipped with a pressure relief channel to ensure personal safety.
3. The advanced and reliable rotary isolating switch can safely enter the circuit breaker room for maintenance under the main bus.
4. The whole cabinet protection class IP2X.
5. With a reliable and fully functional mandatory mechanical locking device, it is easy and effective to meet the "five-proof" requirements.
6. Has a reliable grounding system.
7. The observation window is installed on the door, and the working state of the components in the cabinet can be clearly observed.
8. The operating mechanism is locked with the JSXGN locking mechanism for the XGN2-22 cabinet, which is simple, reliable and convenient.
9. The incoming and outgoing cable is lower than the front of the cabinet for easy connection.

## XGN66-12 The main technical parameters

Name	Unit	Data
Rated voltage	kV	3.6, 7.2, 12
Rated working frequency	Hz	50
Rated peak frequency endurable voltage	kV	To the ground, phase: 42; Fracture: 48
Rated lightning impulse withstand voltage	kV	To the ground, phase: 75; Fracture: 85
Rated frequency	Hz	50
Rated current	A	630, 1250,
Rated short-circuit breaking current (effective value)	kA	20, 25, 31.5,
Rated short circuit closing current (peak)	kA	50, 63, 80,
Rated dynamic current (peak)	kA	50, 63, 80
Rated thermal stability current 4s (RMS)	kA	20, 25, 31.5
Protection grade		IP2X
The external dimension width X deep X is high	mm	900×1000×2300
Weight	kg	≈ 600

## XGN66-12 Main technical parameters of vacuum circuit breaker



1. Cabinet door
2. flashlight
3. Observed window
4. Operating mechanism
5. small gate board
6. meter door
7. brow
8. Busbar wall bushing
9. bolt
10. washer
11. washer
12. Nut
13. isolating switch
14. Pull rod
15. Rear sealing board
16. Current transformer
17. Vacuum circuit breaker
18. Isolating switch
19. transducer
20. bolt
21. washer
22. washer
23. scaffolding
24. Surge arrester

## HXGN □ -12 Overview

HXGN □ -12(SF6) Unit type AC metal-enclosed ring main unit (hereafter refer to as ring net cabinet) is a new generation of high-pressure electric appliance product designed and developed independently by our own company according to the requirement of the domestic agricultural electricity and the city net transformation after introduction of overseas advanced technology. Each technical performance index completely reaches the IEC298 and GB3906 standard.

The loop-net cabinet's main switch, the operating mechanism and the components is made of the ABB Corporation original piece or the SFL-17/24 switch equipment imported overseas and assembled at home. We can also install the ABB Corporation original piece of HAD/US type SF<sub>6</sub> according to the request of users. The circuit breaker or the VD4-Svacuum circuit-breaker divide into two kinds: be operated manually and electrically according to the operating mode.

The cabinet body is riveted after processed by numerical control machine tool with reliable mechanical interlocking and the misoperating prevention function. The protection grade reaches IP3X. This product has the remarkable characteristics such as the small volume, light weight, artistic appearance, simple operation, long life, high parameter with no pollution and little maintenance.



## High voltage switchgear series

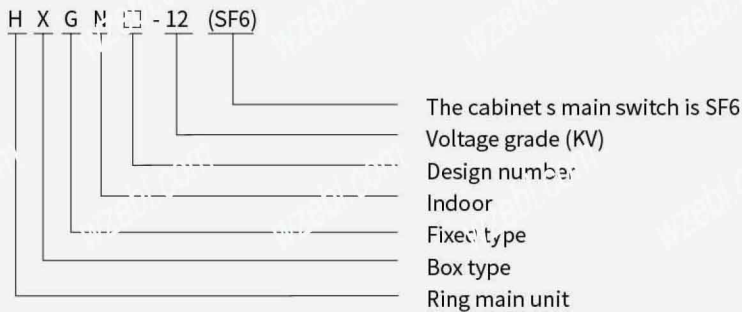
### HXGN □ -12 Use environmental conditions

1. The altitude should not exceed 2000m.
2. Surrounding air temperature: -25°C ~+40°C
3. Relative temperature: the daily average value is not higher than 95%, the the monthly average value is no higher than 90%
4. Surrounding air without caustic gas or ignitable gas, steam and other obvious pollution
5. Without fierce vibration

### HXGN □ -12 Using

HXGN □ -12 (SF<sub>6</sub>) unit type exchange metal ring- net switching equipment, is suitable to exchange 50Hz, 12K, searing as a device of receiving and distribution of electrical energy.

## HXGN □ -12 Model and meaning



## HXGN □ -12 The main technical parameters

Item	Unit	Parameters
Rated voltage	kV	12
Rated frequency	Hz	50
Main bus bar rated current fuse breaker maximum rated current	A	630/125
Main loop, earthed loop short time endurable rated current	kA/s	20/3
Main loop, earthed loop maximum endurable rated current	kA	50
Main loop, earthed loop short circuit on-and off rated current	kA	50
the opening number of the load switch with full capacity	次	100
The fused breaker opening the current	kA	31.5、40
Rated closed loop opening current	A	630
Rated shift current	A	1600
Machine' life	次	2000
1min line frequency resistance (peak value) recurrence, to the earth/isolation fracture	kV	42/48
The lightning shock resistance (peak value) recurrence, to the earth/isolation fracture	kV	75/85
Secondary loop 1min line frequency voltage resistance	kV	2
Protection grade	IP3X	

## HXGN □ -12 Structural features and working principle

The outline structure of the product is referred to as diagram 1 and diagram 2; the installation dimension is referred to as diagram 3. This ring network type cabinet makes air as the insulating medium, mainly assembled with ZFN □ -10/630 type vacuum load switch. And there are two cabinet schemes - incoming cabinet and outgoing cabinet.

### 1. Incoming cabinet scheme

There is a ZFN □ -10/630 type vacuum load switch on the main circuit inside the cabinet with isolating knife, and grounding knife conditionally. The three of them are all installed in one machine stand and there are interlocks among them, so that it is realized to connect the operation of three working stations of bus, isolation and grounding. Inside the cabinet the components such as CT, PY are available.

### 2. Outgoing cabinet scheme

ZFN □ -10/630 type vacuum load switch, fuse with striker (used as isolating switch) and grounding knife on the main circuit inside the cabinet, and the three working stations operation can be realized. Inside the cabinet the components such as CT/PT and ZNO arrester are available, so the metering cabinet can be omitted. Inside the incoming cabinet and out-going cabinet, there is insulating protecting baffle interlocked with grounding switch. And inside the cabinets, the mechanical interlocks are adopted between each switch and baffle as well as the cabinet door with the requirement of "five-prevention" and IP2X of the protection degree of the cabinet enclosure.

## H(L)6-12/24 /40.5 630/20 SF6 Standard specification

H(L)6-12/24/40.5 series SF6 fully insulated and fully enclosed compact ring network cabinet (hereinafter referred to as inflatable cabinet) is suitable for three-phase AC 50Hz, rated voltage 24kV power distribution system,

It can be used as a load current, an overload current, and a short circuit. It can also break capacitive loads such as no-load transformers, fixed-line overhead lines, cable lines and capacitor banks, and generate power in the power system.

Distribution, control and protection. H(L)6-12/24/40.5 adopts a fully sealed structure, all of which are sealed in a gas chamber welded

by a stainless steel plate with a protection rating of IP67.



## High voltage switchgear series

It can adapt to humid and salty fog, such as flood, heavy pollution and other harsh environmental conditions, and operate safe and reliable multi-loop ring network switchgear. Widely used in industrial parks, streets, airports,

Residential areas, prosperous commercial centers, etc., are ideal equipment for distribution network automation. Also used in: compact box-type substations, cable branch boxes, opening and closing, wind power stations, subways and tunnels.

## H(L)6-12/24 /40.5 630/20 Use of environmental conditions

1. Ambient temperature: -40°C ~ +40°C (less than -30 °C by the user and the manufacturer to negotiate)
2. Altitude: ≤ 2500 meters (more than 2500 meters by the user and the manufacturer)
3. Maximum average relative humidity: 24-hour average ≤ 95%, monthly average ≤ 90%
4. Earthquake intensity: no more than 8 degrees
5. Locations without fire, explosion, chemical corrosion and frequent severe vibration

Single-spacer dimensions: width 350\* depth 810\* height 1.450



### H(L)6-12/24 /40.5 630/20 SF6 Main technical parameters

Serial No.	Project	C Module	F Module	V Module	
		Load switch	Combination Electrical Appliances	Vacuum circuit breaker	Isolation/ Grounding Switch
1	Rated voltage (kV)	12		24	
2	1min Power frequency withstand voltage (kV)	42/48		65/79	
3	Lightning impulse withstand voltage (kV)	75/85		125/145	
4	Rated current (A)	630	125*	630	630
5	Turn on and off current				
	Closed loop interrupting current (A)	630			
	Cable Charging Opening Current (A)	10			
	5% Active Load Open-Out Current (A)	31.5			
	Grounding fault interruption current (A)	31.5			
	Short circuit breaking current (kA)		31.5*	20	
6	Short-circuit closing current (kA)	63	80*	20	
7	Short-circuit withstand current (kA)	20		20	20
8	Short circuit duration (s)	4		4	4/2
9	Mechanical life time	5000	5000	10000	10000
10	SF6 Gas Pressure (bar)	1.2/12	1.4/24 (20°C)		
11	Annual leak rate	0.1%			
12	Protection Level	IP67/4X (Gas tank/Enclosure)			

Serial No.	Project	C Module	F Module	V Module			
		Load switch	Combination Electrical Appliances	Vacuum circuit breaker	Isolation/ Grounding Switch		
1	Rated voltage (kV)	40.5					
2	1min power frequency withstand voltage (kV)	95/118					
3	Lightning impulse withstand voltage (kV)	185/215					
4	Rated current (A)	630	80*	630	1250	630	1250
5	Rated Closed-loop interrupting current (A)	630					
6	Rated Cable Charging Opening Current (A)	21					
7	5% Active Load Open-Out Current (A)	31.5					
8	Grounding fault interruption current (A)	63					
9	Rated Short circuit breaking current (kA)		31.5*	20	25		
10	Rated short circuit closing current (kA)	50	80*	50	63	50	63
11	Rated short circuit withstand current (kA)	20		20	25	20	25
12	Rated short circuit duration (s)	4		4		4	
13	Mechanical life time	5000	5000	10000		5000	
14	SF6 Gas Pressure (bar)	1.4/ (20°C)					
15	SF6 Annual leak rate	0.1%					
16	Protection Level	IP67/4X (Gas tank/Enclosure)					

\* Indicates that depends on or is limited by a fuse.

## GCK Overview

GCK IV withdrawable switchgear cabinet is applicable to the low voltage distribution system with AC50Hz, rated working voltage 380V. It contains power center (PC) and motor control center (MCC) functions. Each technical parameter all reaches national standards. With characteristics of advanced structure, beautiful appearance, high electric performance, high protection grade, reliable and safe and easy to maintain. It is the ideal distribution device for low voltage power supply system in metallurgy, petroleum, chemical, power, machinery and light weaving industries etc.

The product accords with standards IEC-439, GB7251.1.



## Low Voltage Switchgear Series

### GCK Design feature

1. GCK1 and REGC1 are assemble type combined structure. The basic skeleton is assembled by adopting special bar steel.
2. Cabinet skeleton, component dimension and starter size change according to basic modulus E=25mm.
3. In MCC project, parts in cabinet are divided into five zones (compartment): horizontal bus bar zone, vertical bus bar zone, function unit zone, cable compartment, and neutral earthing bus bar zone. Each zone is separated mutually for circuit's normal running and effectively preventing fault expansion.
4. As all structures of framework are connected and firmed by bolts, so it avoids the welding distortion and stress, and upgrades the precision.
5. Strong general performance, well applicability and high standardization degree for components.
6. Draw-out and insert of function unit (drawer) is lever operation, which is easy and reliable with rolling bearing.



## GCK Use environmental conditions

1. Altitude above sea level should not exceed 2000m.
2. Ambient air temperature:  $-5^{\circ}\text{C} \sim +40^{\circ}\text{C}$  and the average temperature should not exceed  $+35^{\circ}\text{C}$  in 24h.
3. Air condition: With clean air. Relative humidity should not exceed 50% at  $+40^{\circ}\text{C}$ . Higher relative humidity is allowed at lower temperature. Ex. 90% at  $+20^{\circ}\text{C}$ .
4. Places without fire, explosive danger, serious pollution, chemical corrosion and fierce vibration.
5. Installation gradient not exceed  $5^{\circ}$ .
6. Control center is suitable to the transportation and store with following temperature:  $-25^{\circ}\text{C} \sim +55^{\circ}\text{C}$ , in short time (within 24h) it should not exceed  $+70^{\circ}\text{C}$ .

## GCK The main technical parameters

Protection grade	IP40, IP30	
Rated working voltage	AC, 380(V)	
Frequency	50Hz	
Rated insulation voltage	60kV	
Working conditions		
Environment	Indoors	
Altitude	$\leq 2000\text{m}$	
Ambient temperature	$-5^{\circ}\text{C} \sim +40^{\circ}\text{C}$	
The min temperature under store and transportation	$-30^{\circ}\text{C}$	
Relative humidity	$\leq 90\%$	
Capacity of control motor (kW)	0.4--155	
Rated current(A)		
Horizontal bus bar	1600、2000、3150	
Vertical bus bar	630、800	
Contact connector of main circuit	200、400	
Supply circuit	1600	
Max current	PC cabinet	630
Power receiving circuit	MCCcabinet	1000、1600、2000、2500、3150
Rated short time withstand current(kA)		
Virtual value	50、80	
Peak value	165、176	
Line frequency withstand voltage(V/1min)	2500	

other series



Charging pile



Photovoltaic power



DC power supply



XL21 lv panel



JP cabinet



Diesel generator

Website: [www.wzebl.com](http://www.wzebl.com)

Tel: 86-577-27885177

Ad: No. 10, Huxin Road Lushi, Yueqing, Wenzhou, Zhejiang, China.

Email: [wzebl@wzebl.com](mailto:wzebl@wzebl.com)

Fax: 86-577-27885155

