

Product Overview and Features

HXGN□-12 type

Box-type (fixed) metal-enclosed ring network switchgear (referred to as ring network cabinet) is a new type of high-voltage switchgear produced for the needs of urban power grid renovation and construction. In the power supply system as the opening and closing load current as well as closing short circuit current, this ring network cabinet with vacuum load switch, the operating mechanism for the spring actuator, the mechanism can be manually operated, can also be electrically operated. The switch and disconnecting knife are equipped with manual operating mechanism.

The ring main unit is a complete set of strong, small size, no fire and explosion hazards, with reliable "five-proof" function.

Model Meaning

H X G N □ - 12 FZ (R) / □ - □

- Breaking current (KA)
- Rated current
- Load Vacuum Switch (Fuse combination)
- Rated voltage
- Design number
- Indoor
- Fixed
- Box type
- Ring network

Areas of application and environments of use

Widely used in coal mines, iron and steel mills, cement factories, building ceramics, textiles, paper and other industrial and mining enterprises and hydroelectric power plants, solar photovoltaic power plants, wind power plants, thermal power plants and other power generation projects and substations, substations and power distribution rooms and other indoor places.

1. The surrounding air temperature: the highest temperature +40 ℃, the lowest degree -15 ℃;
2. Relative humidity:

Daily average relative humidity: ≤95%; daily average water vapor pressure does not exceed 2.2kPa;

Monthly average relative humidity: ≤90%; monthly average water vapor pressure does not exceed 1.8kPa;

3. Altitude: below 1000m;
4. Earthquake intensity: no more than 8;
5. The surrounding air should not be corrosive or combustible gases, water vapor and other obvious pollution sites;
6. No violent vibration places;
7. Beyond the GB/T3906-2020 provisions of the normal conditions of use, by the user and the company to negotiate.

Main technical parameters

Name		Unit	Parameters
Rated Voltage/Maximum Operating Voltage		KV	10/12
Rated current		A	630
Main busbar current	Inlet Cabinet	A	630
	Outlet cabinet	A	125
Rated short-time withstand current		KA	20
Rated short circuit duration		S	4
Rated peak withstand current		KA	50
Rated short-circuit closing current		KA	50
Rated active load breaking current		A	630
Closed non-breaking current		A	630
Rated cable charging current		KA	20
Rated short-time withstand current of the grounding switch		KA	20
Ground switch rated short circuit duration		S	4(2)
Ground switch rated peak withstand current		KA	50
Rated short-circuit shutdown current of the grounding switch		KA	50
1min rated frequency withstand voltage	Between phases、Phase to ground、Vacuum load switch opening distance	KV	42
	Disconnecting switch opening distance	KV	48
Rated lightning impulse withstand voltage	Between phases、Phase to ground、Vacuum load switch opening distance	KV	75
	Disconnecting switch opening distance	KV	85
Mechanical life	Vacuum load switch	time	10000
	Ground switch (knife switch)、Disconnecting switch(knife switch)	time	2000
Crossover current		A	3150
Overall dimensions	800（700）*900*2000	mm	200 ~ 300kg