


HV Switchgear

HXGN-12 Indoor Fixed Ring Main Unit

HXGN□-12 indoor metal-enclosed ring-network switchgear is an AC high-voltage assembly rated 12kV, 50Hz, used mainly for AC ring networks, terminal distribution networks and industrial power equipment — for receiving, distributing and protecting power. It can also be built into box substations. It complies with GB 3906 (3.6–40.5kV AC metal-enclosed switchgear) and IEC 298, and provides a five-prevention interlock.

MODEL DESIGNATION

HXGN□-12 FZR-□

H	ring-network	X	box-type
G	fixed-mounted	N	indoor
□	design series	12	rated voltage (kV)
F	load switch	Z	vacuum (omitted = gas)
R	fuse	□	scheme number

TECHNICAL SPECIFICATIONS

Rated voltage	12 kV
Rated frequency	50 Hz
Load-switch rated current	630 A
Breaking of no-load transformer	1250 kVA
Short-time withstand	20 kA / 4s (earthing switch 20 kA / 2s)
Peak withstand current	50 kA
Short-circuit making (peak)	50 kA
Fuse rated current	125 A
Combination unit — transfer / breaking current	870 A / 20 kA
Power-frequency withstand	42 kV (48 kV across gap) / 1 min
Lightning impulse withstand	75 kV (85 kV across gap)
Enclosure protection	IP2X
Standards	GB 3906 / IEC 298

NORMAL OPERATING ENVIRONMENT

- ▶ Ambient temperature +40 °C max, -25 °C min
- ▶ Humidity: daily average $\leq 95\%$, monthly average $\leq 90\%$
- ▶ Air free of corrosive or flammable gas, steam and conductive dust
- ▶ Altitude ≤ 1000 m
- ▶ No fire / explosion hazard; no severe vibration