



Ring Main Unit

HXGN-40.5 Box-Type Ring Main Unit

HXGN□-40.5 box-type AC metal-enclosed ring-network switchgear serves indoor three-phase AC 50Hz systems rated 40.5kV — used mainly in wind power, substations, industrial & mining enterprises and high-rise buildings for receiving and distributing power with protection, control and monitoring. Designed with advanced foreign technology, it is long-lived, highly reliable and compact enough to build into a box substation. The main switch is an SF6 or vacuum load switch, or a load-switch + fuse combination. (Supplied by our signed partner Shandong Sunshine Power Equipment.)

MODEL DESIGNATION

HXGN□-40.5

H	ring-network	X	box-type
G	fixed-mounted	N	indoor
□	design series	40.5	rated voltage (kV)

TECHNICAL SPECIFICATIONS

Rated voltage	40.5 kV
Rated frequency	50 Hz
Rated current	630 A
Active-load breaking current	400 A
Short-time withstand	16 kA / 3s (load switch) · 31.5 kA (fuse combination)
Peak withstand current	40 / 80 kA
Short-circuit breaking (fuse combination)	31.5 kA
Power-frequency withstand	95 kV / 1 min
Lightning impulse withstand	185 kV
SF6 rated pressure	0.05 MPa (min. functional 0.03 MPa); annual leakage ≤ 1%
Mechanical life	5000 operations
Enclosure protection	IP3X
Standards	GB 3906 / IEC 62271-200

KEY FEATURES

- ▶ Advanced foreign design — long service life, high reliability, compact; can be built into a box substation
- ▶ Simple structure, easy assembly, simple and reliable interlocking, expandable
- ▶ Main switch: SF6 load switch, vacuum load switch, or load-switch + fuse combination
- ▶ Spring operating mechanism (150 W charging motor), manual or motor operation

NORMAL OPERATING ENVIRONMENT

- ▶ Ambient air temperature max +40 °C (24h average $\leq$ +35 °C), min -5 °C
- ▶ Altitude $\leq$ 1000 m; seismic intensity $\leq$ 8
- ▶ Relative humidity: 24h average $\leq$ 95%, monthly average $\leq$ 90%
- ▶ Air free of significant dust, smoke, corrosive / flammable gas, steam or salt-mist pollution