

HV Switchgear

XGN15-12 Box-Type Fixed AC Metal-Enclosed Ring-Network Switchgear

XGN15-12 box-type fixed AC metal-enclosed switchgear (ring-network cabinet) is a modern HV product developed with advanced international technology to meet China's rural and urban grid-renovation needs; its performance meets IEC 62271-200:2003 and GB 3906. The main switch is an SF6 load switch (with a vacuum circuit breaker available for feeder protection), operated manually or by motor. The CNC-machined, riveted cabinet provides IP3X protection with reliable mechanical interlocking and anti-misoperation — compact, lightweight, long-lived, high-rated and low-maintenance. For indoor AC 50Hz, 12kV distribution networks.

MODEL DESIGNATION

XGN15-12 (F•R)

X	box-type	G	fixed-mounted
N	indoor	15	design series
12	rated voltage (kV)	(F•R)	load-switch – fuse combination

TECHNICAL SPECIFICATIONS

Rated voltage	12 kV
Rated frequency	50 Hz
Busbar rated current / fuse max	630 A / 125 A
Short-time withstand (main / earth circuit)	20 kA / 3s
Peak withstand current	50 kA
Short-circuit making (peak)	50 kA
Load-switch full-capacity breaking	100 operations
Fuse breaking current	31.5 / 40 kA
Ring-network breaking current	630 A
Rated transfer current	1600 A
Mechanical life	2000 operations
Power-frequency withstand	42 kV (48 kV across gap) / 1 min
Lightning impulse withstand	75 kV (85 kV across gap)
Enclosure protection	IP3X
Standards	GB 3906 / IEC 62271-200