



Smart Ring Main Unit

GTXGN-12 Solid-Insulated Ring Main Unit

GTXGN-12/630-25 solid fully-insulated enclosed ring-network switchgear is a fully-insulated, fully-sealed, maintenance-free solid-insulation vacuum unit. All HV live parts are cast in high-performance epoxy resin, integrating the vacuum interrupter, main circuit and insulation support; functional units connect via a fully-insulated solid busbar. It is therefore unaffected by the external environment, ensuring reliability and operator safety. Simple, flexible and reliably interlocked, it serves 50Hz, 12kV systems — widely used in industrial & civil cable ring networks, small substations, switching stations, cable branch boxes, box substations, malls, airports, metros, wind power, hospitals and railways. Its fully-insulated, sealed, shielded design suits harsh environments — high altitude, high temperature, humid heat, severe cold and heavy pollution.

MODEL DESIGNATION

GTXGN-12 / □ - □

GTXGN	intelligent solid-insulation switchgear	12	rated voltage (kV)
□	rated current (A)	□	rated short-circuit breaking current (kA)

TECHNICAL SPECIFICATIONS

Rated voltage	12 kV
Rated current	630 A
Rated breaking current	25 kA
Insulation	Solid (epoxy-cast, SF6-free)
Enclosure protection	IP67 (live parts) / IP3X (cabinet)
Ambient temperature	-45 °C to +45 °C
Automation	Distribution-automation / FTU ready
Standards	GB 3906 / IEC 62271-200

NORMAL OPERATING ENVIRONMENT

- Ambient temperature -45 °C to +45 °C

► Altitude ≤ 4000 m; seismic intensity ≤ 8
- Humidity: daily average ≤ 95%, monthly average ≤ 90%

► Protection: live parts sealed IP67, fuse tube IP67, cabinet enclosure IP3X