



Ring Main Unit

HBG-12 Full-Insulation Ring Main Unit

The HBG-12/630-25 energy-saving, eco fully-insulated ring-network cabinet reflects the modern stage of medium-voltage switchgear — compact, maintenance-free, highly modular, safe and reliable. It enables remote monitoring, control and management of distribution networks for grid optimisation, safe use, energy management and loss reduction, and is widely used in transport, factories, hospitals, schools, buildings, residential communities and commercial offices for smart distribution. Localised production with advanced equipment greatly lowers cost and lead time.

MODEL DESIGNATION

HBG□-12(□)/T□-□

HBG	eco (environmental) cabinet	□	design series
12	rated voltage (kV)	(□)	main-switch type (Z: vacuum breaker / F: vacuum load switch / F·R: load-switch–fuse combination)
T	spring operating mechanism	□	rated current (A)
□	rated breaking / short-time withstand (kA)		

TECHNICAL SPECIFICATIONS

Rated voltage	12 kV
Rated current	630 A
Rated breaking current	25 kA
Insulation medium	Eco gas — dry air / 99.99% N ₂ (GB/T 8979-2008)
Enclosure protection	IP67 (gas tank), 2.5mm laser-welded stainless steel
Switch configuration	Three-position (isolate + earth) + vacuum interrupter
Configuration	Multi-unit (C / F / V), modular
Standards	GB 3906 / IEC 62271-200

KEY FEATURES

- ▶ Integrated gas enclosure of 2.5mm laser-welded stainless steel, IP67, with pressure-relief membrane
- ▶ Three-position (isolate + earth) + vacuum arc-extinguishing — the most mature configuration
- ▶ Flexible modular design — modules joined by dedicated busbar connectors
- ▶ Eco / pollution-free: insulation is zero-grade dry air or 99.99% pure N₂ — harmless leakage, no recovery needed
- ▶ Complete internal five-prevention mechanical interlocks

NORMAL OPERATING ENVIRONMENT

- ▶ Altitude ≤ 2000 m (special design above 2000 m)
- ▶ Humidity: 24h average $\leq 95\%$, monthly average $\leq 90\%$
- ▶ Ambient temperature: max $+40$ °C, min -40 °C, 24h average $\leq +35$ °C
- ▶ Air free of explosive or corrosive gas; no severe vibration; seismic ≤ 8