



Box Substation

YB European-Type Prefabricated Substation

The YB□-12/0.4 HV/LV European-style prefabricated (box-type) substation is widely used in urban grid renovation, residential communities, high-rise buildings, industry and mining, hotels, malls, airports, railways, oilfields, ports, expressways and temporary-power sites — both indoors and outdoors. It integrates HV switchgear, transformer and LV switchgear as a factory-assembled three-in-one unit.

MODEL DESIGNATION

YB □ - 12/0.4 - □

YB	intelligent integrated (European) substation	□	design series
12/0.4	rated voltage, HV / LV (kV)	□	transformer capacity (kVA)

TECHNICAL SPECIFICATIONS

Rated voltage (HV / LV)	12 kV / 0.4 kV
Transformer	S9–S13 oil-immersed, or resin / NOMEX dry-type
Transformer capacity	up to 2500 kVA
HV switching	load-break switch + fuse combination (air / vacuum / SF6); QCE vacuum breaker ≥ 800 kVA
LV switching	air or moulded-case breakers, up to 30 outgoing ways
Protection / automation	integrated, weatherproof; FTU-ready four-remote
Standards	GB/T 17467 / IEC 62271-202

KEY FEATURES

- ▶ HV switchgear, transformer and LV switchgear integrated as a factory-assembled three-in-one unit
- ▶ Compact footprint, low cost, short build time, easy to relocate; flexible wiring schemes
- ▶ Multiple styles: general, villa and compact; HV ring-main unit can house an FTU for distribution automation (four-remote)
- ▶ Comprehensive HV & LV protection — safe, reliable, easy to maintain
- ▶ Honeycomb double-layer composite enclosure (stainless steel / aluminium alloy / steel) — insulated, ventilated, high protection class

NORMAL OPERATING ENVIRONMENT

- ▶ Altitude not exceeding 1000 m
- ▶ Relative humidity: daily average ≤ 95%, monthly average ≤ 90%
- ▶ Ambient temperature -25 °C to +40 °C
- ▶ Free of fire / explosion hazard, conductive dust, chemical corrosion and violent vibration