

ZiyaoPower Prefabricated Substations

YB European & ZGS11 American Series

1. Application

ZiyaoPower prefabricated substations integrate HV switchgear, distribution transformer, and LV distribution in a compact, factory-assembled, weatherproof enclosure. European (YB) and American (ZGS11) styles available for ring-main and radial distribution networks.

2. Technical Comparison & Ratings

Feature	YB (European)	ZGS11 (American)
Structure	3 independent compartments	Single integrated enclosure
Transformer	Oil / Dry type, standard	Dry type integrated
HV Switch	SF6 load break + fuse + CB	Fuse disconnect + VCB option
LV Switch	Fixed/drawer type	Integrated MCCB/ACB
Footprint	~15-25 m2	~8-15 m2
Standard	IEC 62271-202	IEEE C57.12.28

3. YB Series Models

Model	Capacity (kVA)	HV (kV)	LV (kV)	HV Scheme
YB-100/10	100	10/12	0.4	Load break switch + fuse
YB-315/10	315	10/12	0.4	Load break / VCB
YB-630/10	630	10/12	0.4	VCB
YB-1000/10	1000	10/12	0.4	VCB
YB-1600/10	1600	10/12	0.4	VCB

4. ZGS11 Series Models

Model	Capacity (kVA)	HV (kV)	Feed Type	Weight (kg)
ZGS11-100/10	100	10/12	Radial/Loop	1200
ZGS11-315/10	315	10/12	Radial/Loop	2100
ZGS11-630/10	630	10/12	Radial/Loop	3500
ZGS11-1000/10	1000	10/12	Radial/Loop	5100
ZGS11-1600/10	1600	10/12	Radial/Loop	7300

5. Key Features

- Factory pre-assembled, tested, shipped as single transport unit
- 5-10x smaller footprint vs. brick-and-mortar substation
- SF6/vacuum ring-main unit, integrated protection relays
- Natural + forced ventilation, IP33-IP44 enclosure
- Corrosion-resistant: hot-dip galvanized or alu-zinc, C4/C5 options
- 1000 kVA unit as compact as 2.5m x 2.0m

6. How to Order

YB-[kVA]/[HV kV] [Scheme] [Options] or ZGS11-[kVA]/[HV kV] [Feed]

Example: YB-630/10 VCB Dry-Type IP44 / ZGS11-500/10 Loop-Feed

7. Certifications

- IEC 62271-202: AC Prefabricated Substations (up to 52 kV)
- GB/T 17467: HV/LV prefabricated substations
- Internal arc classification (IAC) tested
- ISO 9001 | CCC | CE

ZiyaoPower Electrical Co., Ltd.

www.ziyaopower.com | sales@ziyaopower.com

This datasheet is for reference only. Specifications subject to change without notice.