

Prefabricated substation

12kV Intelligent Prefabricated Substation



Composition:

- HV Ring Main Unit
- Transformer
- LV distribution switchgear

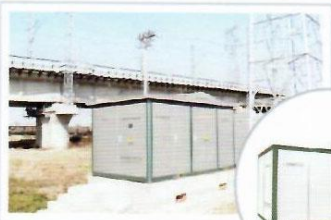
Scope of Application:

- Street lights
- Industry customers
- City ring network system
- Real estate
- Railway station

Functional Features:

- High reliability, high technology
- High level of automation. CT, PT, protection relay and communications devices can be installed on 12kV side. Protection and metering devices can be installed on low voltage side. Monitoring and control of all high & low voltage breakers and transformer can be realized
- The housing applies double-layer, sealed, zinc-coated and anti-corrosive structure. It can ensure no rust in 30 years
- Compact design

Signaling Prefabricated Substation for High-speed Railway



Composition:

- HV Ring Main Unit
- Transformer
- LV distribution switchgear
- Remote terminal Unit
- Dual power switching and UPS

Scope of Application:

- Power supply for high-speed railway communication system
- Power supply for intercity railway communication system

Functional Features:

- SF6 gas insulated ring main unit for high voltage, fully insulated and sealed with protection level of IP67
- All primary and secondary devices are installed in a double-layer, sealed, anti-corrosive house
- Reliable mechanical interlocking between LBS, earthing switch and cable room cover to ensure operator safety
- Incoming and outgoing feeders use touchable cable connector. Surge arrester can be installed in incoming feeder to ensure the safety of maintenance personnel

27.5kV Intelligent Prefabricated Switch Station



Composition:

- 27.5kV circuit breaker
- 27.5kV disconnector
- CT&PT
- Protection relay
- Station transformer

Scope of Application:

- 27.5kV Power Supply System for Railway

Functional Features:

- High reliability: Specially designed for railway systems power supply, ensuring highest reliability for operation
- Optimized design of high voltage scheme, metering, protection, communication, etc. and interfaces between each other
- Outdoor operation: In order to withstand harsh environment, the housing applies double layer, sealed and insulated structure to ensure highest moisture, dust and condensation resistance

12kV Intelligent Prefabricated Ring Main Unit



Scope of Application:

- Real estate, hotels, office buildings, commercial centers, bus stations, airports, etc

Functional Features:

- Fully insulated and sealed
- High safety
- Modularized design
- Convenient for extension

Prefabricated Substation for New Energy Generation



Scope of Application:

- Solar power station
- Wind power station

Functional Features:

- Specially design for new energy generation system
- Modularized structure
- Compact design

Prefabricated substation

+ 145kV Intelligent Prefabricated Substation



Composition:

- 145kV HGIS
- 145/40.5kV or 145/12kV transformers
- 40.5kV or 12kV switching stations

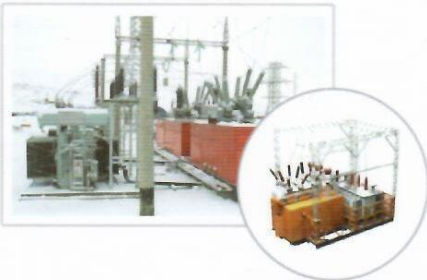
Scope of Application:

- Rural power network
- Urban distribution network
- Industrial customers

Functional Features:

- High reliability
- Short construction period
- Compact design, less land occupation
- Convenient for centralized maintenance and management
- Most simple work on-site (no concrete base, no walls, no cable duct)
- Fully assembled and tested in factory
- High reliability and maintenance-free
- High strength integrated welding structure
- Compact switchgear design
- Low construction cost
- Outdoor installation

+ 145(66)kV Intelligent Prefabricated Substation



Composition:

- 145kV HGIS installed on top of the station
- 145/40.5kV or 145/12kV transformer
- 40.5kV or 12kV switching stations
- Movable structure

Scope of Application:

- Industrial customers
- Open pit mine
- Temporary power supply for projects

Functional Features:

- Fully assembled and tested in factory .Outdoor installation.
- Minimized on-site work for shortest set-up time, no concrete base
- Designed and built for most reliable and safe operation
- Strong weather resistance
- Dust-proof, weather-proof, condensation-proof
- Heavy-duty structural design for safe moving

+ 145(40.5)/12kV Mobile Substation



Composition:

- 145(40.5)kV HGIS
- 145(40.5)/12kV transformer
- 40.5kV or 12kV switching station
- Special order truck

Scope of Application:

- Emergency power supply
- Industrial customers
- Temporary power supply for projects
- Supplement existing power requirements

Functional Features:

- Quick energy supply without erection on sit.
- Easy supplementing existing power requirements
- Flexibility in selecting the required equipment and layout
- Designed, assembled and tested in our factories to be ready for use on site
- Energized whenever and wherever

+ 40.5kV Intelligent Prefabricated Substation



Composition:

- 40.5kV switching stations
- 40.5/12kV transformers
- 12kV switching stations
- Capacitor station(optional)

Scope of Application:

- Rural power network, urban distribution network
- Industrial customers

Functional Features:

- High reliability
- Less land occupation, low investment
- Most simple work on-site (no concrete base, no walls, no cable duct, no steel structure)
- High strength integrated welding structure

+ 40.5kV Intelligent Movable Prefabricated Substation



Composition:

- 40.5kV movable switching station
- 40.5/12kV or 40.5/6kV movable transformers
- 12kV or 6 kV movable switching station
- Capacitor station(optional)

Scope of Application:

- Open-pit mine
- Industrial customers

Functional Features:

- Minimize on-site work for shortest set-up time, no concrete base
- Designed and built for most reliable and safe operation
- Strong weather resistance
- Dust-proof, weather-proof, condensation-proof
- Heavy-duty structural design for safe moving

+ Offshore platform prefabricated substation



Functional Features:

- Overall welded enclosure. The lower surface is made by 5mm thick steel plate with protection level IP56
- High strength, high reliability
- Wide temperature range: double door sheet, spot welding technology, simulate and overmatch the indoor environment
- Unique corrosion resistance technology, ensure the quality for 20 years
- Fine sealability: dust, moisture and condensation prevention
- Anti-seismic: survive magnitude 8 earthquake
- System integration, high-degree automation

+ Customized eHouse



Functional Features:

- eHouse has five characteristics: convenient installation, complete and perfect, energy saving, environmental protection, beautiful appearance
- The customized eHouses are manufactured according to the requirements of configuration and dimension from customers.

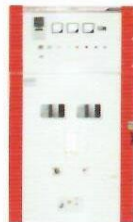
Switchgear

+ High voltage



ZKYN-40.5

- Mid-set structure
- Composite insulation
- Compact structure
- Flexible scheme, easy to expand
- Easy to implement digital and intelligent



KYN61C-40.5

- Reliable interlocking
- Strong structural versatility
- High safety
- Composite insulation
- Compact structure
- Flexible scheme, easy to expand



LISA-12

- Compact design
- High strength structure
- High safety and reliability based on special design of mechanical interlocking

+ Low voltage



KYN28-12

- Strong anticorrosion
- High level international protection (IP)
- Reliable interlocking
- Strong structural versatility
- High safety
- Intelligent



BLOKSET MNS GCK GCS GGD

TRANSFORMER

40.5kV~252kV HGIS



12kV-40.5kV
Dry type
Transformer



12kV-40.5kV
Oil-immersed
Transformer



12kV-40.5kV
Amorphous Alloy Iron
Core Transformer



- Compact
Saves 70% floor area
Short construction period
High reliability, maintenance-free
- Flexibility
Installed indoors or outdoors
Reduced design and manufacturing work
Modularized production
- Reliability
Avoids problems such as crack of ceramic insulator, operating failure, overheating of conductor and corrosion