

# Combined Transformer Substation

This combined power distribution station integrates high voltage transformer, transformer, and low voltage equipment. It functions to receive and distribute power energy in power distribution systems.



## Product Overview

### ZBW Series Combined Substation

The ZBW series combined power distribution station is a compact, pre-installed unit designed to receive and distribute electrical energy. It integrates high-voltage switchgear, transformers, and low-voltage equipment into a single, modular package suitable for urban and rural infrastructure, commercial buildings, industrial sites, and mining operations. This solution offers safe, reliable operation with high mobility, making it an ideal choice for new substation construction and renovation projects.

## Standards & Compliance

### Compliance Standards

GB/T17467-1998, IEC1330

## Operating Environment

### Environmental Operating Limits

**1000 m**

Max Altitude

**40 °C**

Max Ambient Temp

**-25 °C**

Min Ambient Temp

**35 m/s**

Max Wind Speed

### Site Requirements

- Max average daily temperature: 30°C
- Daily temperature difference: d20°C
- Max ground ramp degree: 3°
- Free from explosion danger, fire, filthy materials, chemical corrosion, and violent vibration

## Product Structure

### Housing & Structural Features

- Double-layer top cover with thermal insulation
- Natural ventilation with forced axial flow fan cooling
- Anti-freezing and dew-proof plates in all chambers
- Corrosion-resistant coating on all surfaces
- Lifting shafts and reinforcement for safe transport

### Chamber Configuration

Chamber	Key Equipment
High Voltage	HZGN-10 loop network cabinet, load switch, fuse, grounding switch, lightning arrester
Transformer	Oil-immersed or dry transformer, temperature-controlled fan
Low Voltage	Metering cabinet, cable incoming/outgoing cabinets, capacitance cabinet