

252kV Gas Insulated Switchgear

The 252kV Gas Insulated Switchgear is a high-voltage electrical apparatus for switching, protecting, and isolating electrical equipment in power systems. It utilizes SF6 gas for insulation, offering enhanced reliability, safety, and reduced maintenance.



Product Overview

High-Performance 252kV Gas Insulated Switchgear

The ZF11-252(L) GIS is a high-voltage electrical apparatus designed for reliable switching, protection, and isolation in power transmission and distribution systems. Engineered with a compact, gas-tight aluminium alloy enclosure, it integrates essential substation components including circuit breakers, disconnectors, and transformers. The system utilizes SF6 gas insulation to ensure superior dielectric strength, reduced maintenance needs, and enhanced safety for both indoor and outdoor installations.

Key Features

Engineering Highlights

- Automatic silver-coated contact surfaces for high current capacity
- High-strength aluminium alloy enclosure with anti-corrosion properties
- Precision-cast insulators subjected to rigorous X-ray and mechanical testing
- Optimized sealing technology for prolonged endurance and leak prevention

Electrical Ratings

Performance Metrics

252 kV

Rated Voltage

4000 A

Max Rated Current

50 kA

Short-time withstand current

Detailed Technical Specifications

Parameter	Value
Rated Frequency	50/60 Hz
Rated Peak Withstand Current	125 kA
Power Freq. Withstand (To earth)	460 kV
Power Freq. Withstand (Across isol.)	530 kV
Lightning Impulse Withstand (To earth)	1050 kV
Lightning Impulse Withstand (Across isol.)	1200 kV

Gas Management

SF6 Insulation Data

- CB Compartment Pressure: 0.6 MPa
- Other Compartments Pressure: 0.45/0.5 MPa
- Annual SF6 Leakage: $\leq 0.5\%$