

# Gas Insulated Switchgear (GIS) for Power Transmission

This gas insulated switchgear (GIS) is a high-voltage electrical apparatus for power transmission and distribution systems. It features gas insulation, typically SF6, and incorporates circuit breakers, disconnectors, earthing switches, and transformers within a sealed enclosure.



## Product Overview

### High-Performance 1100kV GIS

This 1100kV Gas Insulated Switchgear (GIS) is engineered for ultra-high voltage power transmission, providing comprehensive control, measurement, and protection for electrical lines. The system features a modular design including circuit breakers, disconnectors, and earthing switches to ensure reliable operation within a compact footprint. Designed for extreme electrical conditions, it offers industry-leading breaking capacity and robust thermal performance for critical infrastructure applications.

## Key Performance Metrics

### Core Specifications

**1100 kV**

Rated Voltage

**6300 A**

Rated Current

**50 kA**

Breaking Current

## Electrical Ratings

Rated Frequency	50 Hz
Rated Short-time Withstand Current (r.m.s)	50 kA
Rated Peak Withstand Current	135 kA

## Insulation and Withstand

### Dielectric Withstand Ratings

Metric	To Earth & Between Pole	Across Isolating Distance
1min Power Frequency Withstand (kV)	1100	1100(+635)
Lightning Impulse Withstand (peak kV)	2400	2400(+900)

## Gas System Specifications

### Rated SF6 Gas Pressure (20°C)

- CB compartment: 0.65 MPa
- Others: 0.45 MPa

Rated SF6 Annual Leakage	<= 0.5%
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## Technical Features

Key Capabilities	Ultra-high voltage, Compact footprint, High current capacity, Modular design
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