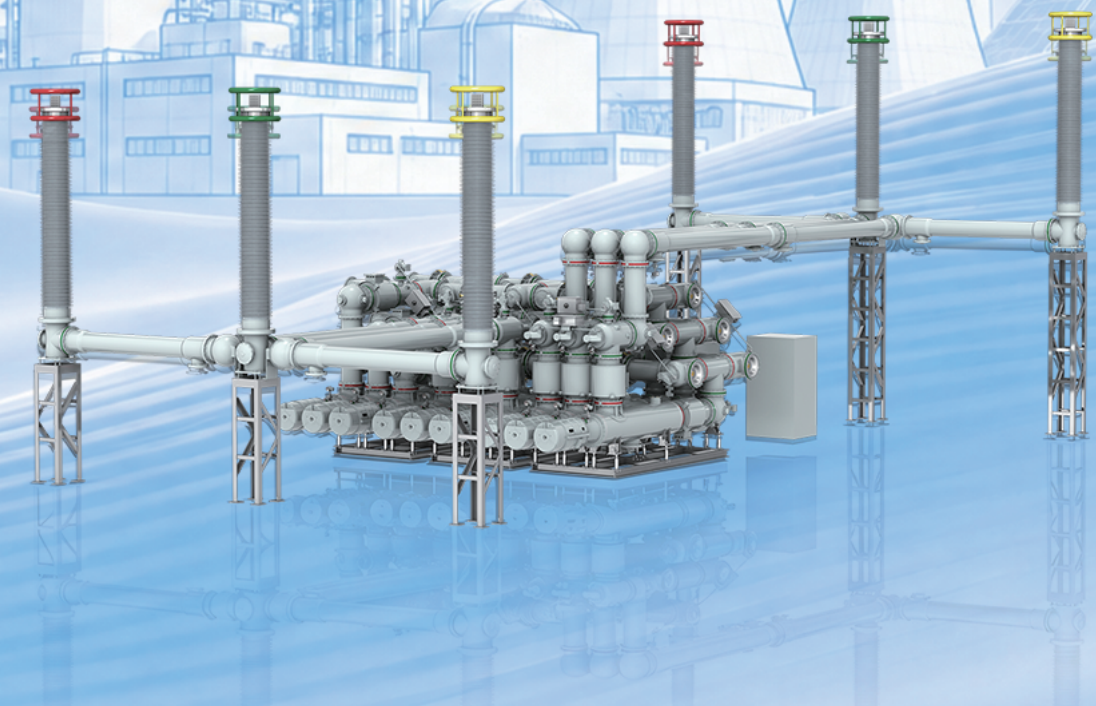




420KV GIS ZFW34-420-Y5000-63

Ultra-Low Leakage, Ultra-Low Partial Discharge,
Two-Cycle Interruption



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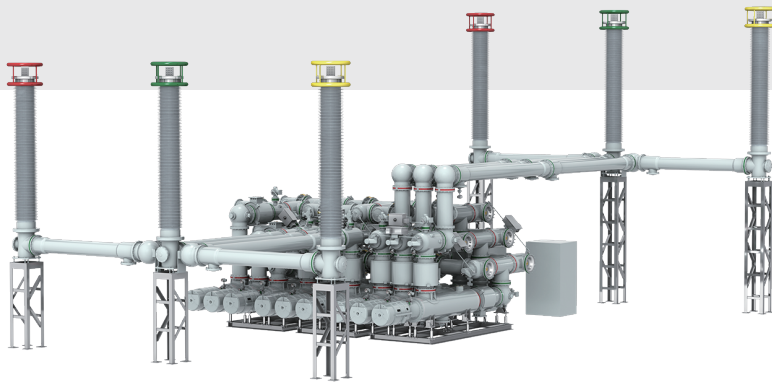
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420KV GIS

ZFW34-420-Y5000-63

The 420kV GIS adopts multiple innovative designs including single-break single-acting arc extinguishing chambers, no closing resistors or shunt capacitors, inspection windows fitted for disconnect and earthing switches, horizontal Partition with convex surfaces facing upward, and particle trapping traps. It delivers reliable performance, featuring high-capacity breaking capacity of 63kA and the industry’s highest bus transfer parameters of 435V/3000A. It achieves low partial discharge of ≤3pC and an ultra-low SF6 leakage rate of ≤0.01%. With a compact structure that occupies minimal floor space, it is adaptable to all types of environments.



Ultra-Low Leakage

Full-interval double-seal design, SF6 annual leakage rate ≤0.01% (national standard requires ≤0.5%).



High Reliability

At 1.2 times phase voltage, insulation components ≤2pC, full bay GIS PD ≤3pC.



Space Saving Solution

Provides faster opening/closing speeds, with maximum breaking time controllable within two cycles. More stable opening/closing characteristics; smooth operation, lower noise, low opening/closing time dispersion, easier to work with Point on Wave (PoW) device.

Key Specifications

Rated Voltage (kV)	420
Rated Frequency (Hz)	50/60
Rated Current (A)	5000
Rated Short-circuit Breaking Current (kA)	63kA
Rated Short-circuit Making Current (kA)	171
Rated Short-time Withstand Current and Duration (kA)	63/3s
Rated Peak Withstand Current (kA)	171
Rated Short-duration Power-frequency Withstand Voltage (1 min, kV)	715
Rated Lightning Impulse Withstand Voltage (1.2/50 μs, kV)	1567.5
Rated Switching Impulse Withstand Voltage (250/2500 μs, kV)	1155
Circuit Breaker Mechanical Endurance Class	10000

Application Scenarios



Ultra-High Voltage Substations: For 420kV grid hub incoming/outgoing lines, bus couplers, and main transformer bays.



Urban Center Substations: Replacing AIS in land-scarce areas to save footprint.



Large Power Source Transmission: For hydro, thermal, nuclear, wind/solar base high-voltage grid connection.



Industrial Heavy Load Access: Serving steel, chemical, data center, and other high-reliability power supply scenarios.



Offshore/Coastal Projects: Suitable for salt spray, humidity, and space-constrained high-voltage booster stations.

Project References



China | 363/550kV Substation



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