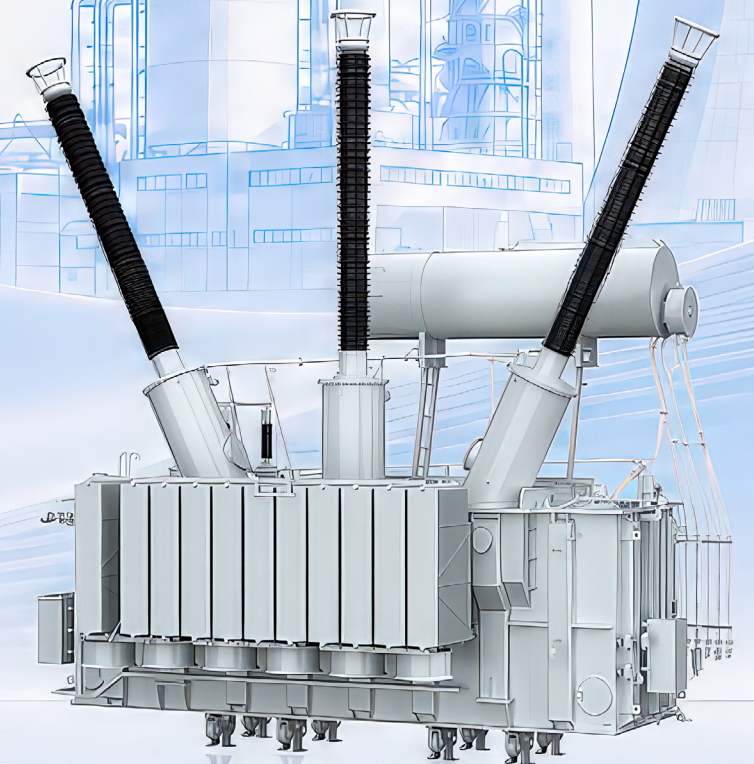




Variable Shunt Reactor up to 1000kV

Wide Output, Smart Adjustment, Global Reliability



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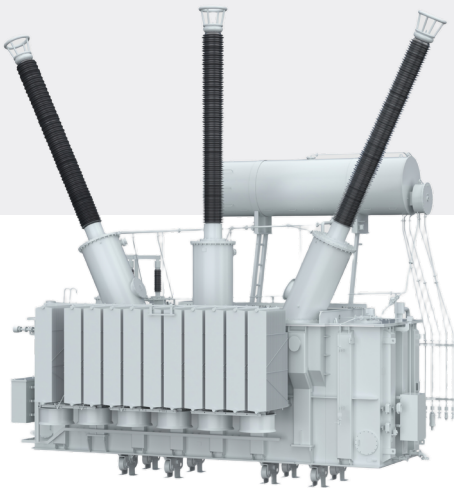
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Variable Shunt Reactor up to 1000kV

Variable shunt reactors up to 1000 kV for dynamic reactive power compensation in EHV transmission, renewable energy integration, and distributed generation networks. The variable shunt reactor (VSR) steps beyond—delivering OLTC-based continuous regulation that adapts to real-time grid conditions, stabilizing EHV voltage, suppressing overvoltage during light-load periods, and cutting transmission losses across long-distance corridors and distributed networks. Engineered for extreme climates and corrosive environments with low-loss, low-noise design, it transforms reactive power management from a static compromise into a dynamic advantage.



Wide Product Range

Up to 1000 kV / 250 Mvar



Broad Adjustable Mvar Output

30–100% adjustable



All-Weather Adaptability

-50 °C to +55 °C , C5VH anti-corrosion



Low Noise & Low Loss

15–20 dB quieter, 10%+ lower loss

Key Specifications

Rated Power	120 Mvar	200 Mvar	30 Mvar
Rated Voltage	500kV	420kV	225kV
Power Ration	24-120 Mvar	100-200 Mvar	10-30 Mvar
Cooling Method	ONAN / ONAF	ONAN	ONAN / ONAF
Energy Efficiency	Tire 2	Tire 2	Tire 2
Corrosion Class	C5H	C4H	C4H
Insulation Level			
HV: Um/SI/LI/LIC/AC	550/1175/1550/1675/680kV	440/1175/1425/1570/630kV	245/850/1050/1155/460
Standard	IEC 60076	IEC 60076	IEC 60076

Application Scenarios



Loads supplied via long-distance overhead transmission lines or underground cables feature drastic fluctuation.



Large-scale wind farms and solar power plants with volatile power load variations.



For hybrid energy systems during summer peak load periods with obvious day-night load gaps, reactive power compensation can significantly boost grid operation efficiency.



Distributed generation networks (solar, wind, etc.) often operate below full rated output, which leads to increased reactive power flow caused by fluctuating reactive power generation and consumption.

Project References



Senegal | 225kV variable shunt Reactor



Serbia | 400kV variable shunt Reacto



Turkmenistan | 500 kV Magnetically Controlled Variable Shunt Reactor