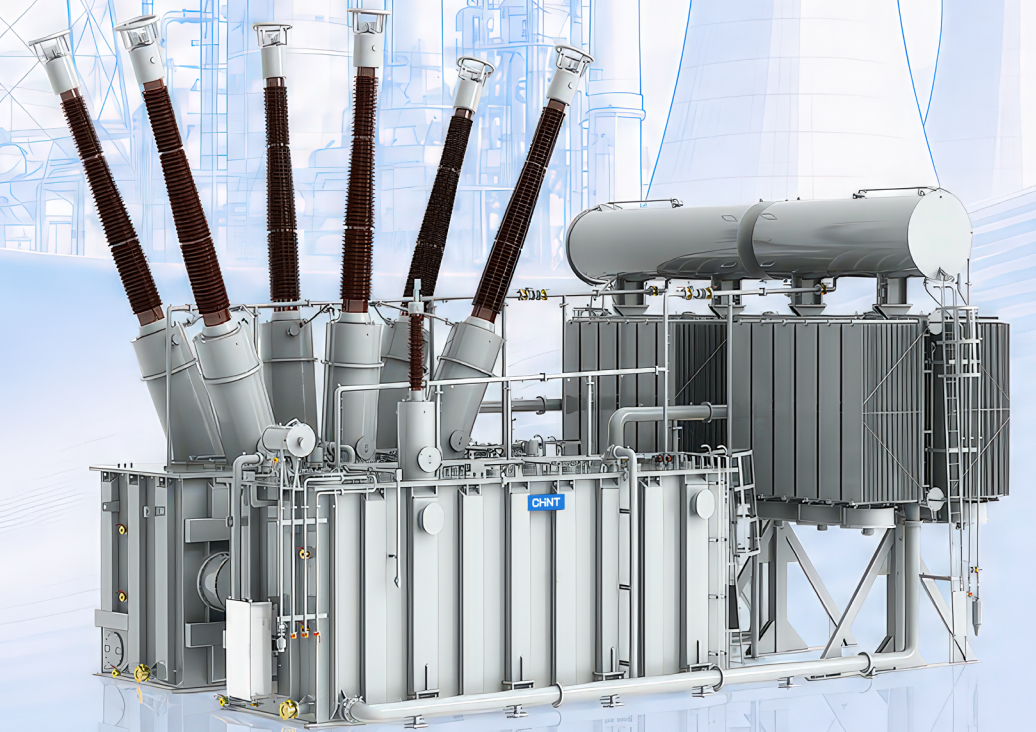




Phase Shifting Transformer up to 750kV

Control Active Power Flow and Balance Line Loading



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Phase Shifting Transformer up to 750kV

The development of the new type of power grid aims to build a safe, efficient and economical power grid. The market requires cost-effective power flow control technologies. the technology of using phase-shifting transformers (PST) to flexibly control the active and reactive power flows of the power grid is the most cost-effective solution. The phase-shifting transformer, as an economical power grid power flow control device with low cost, small footprint and simple operation and maintenance, can flexibly control the size and direction of power transmission and, in combination with existing transmission lines, can transport new energy to the power consumption areas.



Key Specifications

Parameter	Data
Rated Voltage	330kV
Rated Capacity	630MVA
Insulation Level: S1/S2/S3(L1/L2/L3):	Um/ LI/LIC/ SI / AC: 420/1300/1430/1050/570
Energy Efficiency	Tire 2
Standards	IEC 60076
Cooling Method	ONAN/ONAF1/ONAF2
No-Load Loss	122KW
Load Loss	640KW
Noise Sound Pressure Level	68.5dB
Phase-Shift Angle	±25°
Short-Circuit Impedance	12.5% @±25°

Application Scenarios



Load balancing across parallel transmission corridors



Loop flow control and elimination of unwanted circulating currents



Elimination of line congestion and power flow reversal caused by bulk power injection



Interconnecting networks at different voltage levels for load balancing



Optimized Grid Operation Performance

- Eliminate AC transmission bottlenecks
- Improve system efficiency, stability & power quality
- Balance parallel line loads, mitigate post-fault overloads & suppress parasitic circulating power
- Cut overall system operation costs



Maximize Existing Grid Asset Value

- Tap full transmission potential of original lines
- Postpone or avoid huge investment on new transmission corridors