UHVDC converter valve

Shaping up super highways for future grids

Catering to the booming market for UHVDC applications both in China and abroad, we developed an A5000 type UHVDC converter valve technology. It is rated at ±1100kV/6250A, while downwardly compatible with lower voltage applications. The A5000 type valve has passed all the type tests conforming to IEC60700 standard, accredited by KEMA laboratory. The A5000 valve has been used in four UHVDC projects, Jinping-Sunan project, Southern Hami-Zhengzhou project, Xiluodu-Zhejiang project, and Lingzhou-Shaoxing project, all with well proven performance.









Key technical features

- 9-level thyristor clamped assembly
- Integrated water-cooled resistor
- Triggering with dual power supply
- Low-noise saturated reactor
- High-strength insulation channel
- Up to ±1100kV/6250A

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UHVDC project references

Consistent committment to outstanding performance

Xiluodu-Zhejiang ±800kV UHVDC transmission project

The 1680km power link will transport clean hydropower from Xiluodu Hydropower station in Sichuan province to the highly industrialized Zhejiang province. Rated at 8GW, this is one of the most powerful transmission lines in the world.

Execution period 2013-2014

Rated DC voltage ±800kV

Rated DC current 5000A

Rated capacity 8000MW

Transmission distance 1680km



Southern Hami-Zhengzhou ±800kV UHVDC transmission project

This Silk Road of Electricity will transmit coal-fired and wind power from the western frontier of China to its central plains, meeting urgent power needs in the area. It goes through the vast region of Xinjiang, Gansu, Ningxia, Shaanxi, Shanxi and Henan, over a distance of 2210km.

Execution period 2012-2013
Rated DC voltage ±800kV
Rated DC current 5000A
Rated capacity 8000MW
Transmission distance 2210km



Jinping-Sunan ±800kV UHVDC transmission project

Running through eight provinces and over a distance of 2100km, this project is the largest and longest of its kind in operation worldwide. This transmission link is built to meet the power demand of Jiangsu province in East China.

Execution period 2011-2012

Rated DC voltage ±800kV

Rated DC current 4500A

Rated capacity 7200MW

Transmission distance 2100km

