




550kV / 363 kV / 252 kV GIS

Taikai consistently improves and innovates new technologies to meet the most demanding requirements, such as tight space, harsh environment and long distance transmission. The launch of 550kV / 252 kV GIS & Circuit Breaker, represents Taikai has become one of leading providers in energy transmission. Taikai 550kV GIS has played an important role in Xinduqiao Smart Substation at an altitude of 3600 m, the highest substation in China.

More than Energy Transmission

Taikai Group

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550kV / 363 kV / 252 kV GIS

- Compact design for cost and space saving.
- Latest sealing materials with excellent temperature proof performance.
- Adopting “thermal expansion plus blowing” self-extinguishing technology, Taikai GIS / Circuit Breakers feature with excellent switching performance of 20 cycles under full load and short arcing time.
- Taikai GIS / Circuit Breakers, deployed proven spring operation mechanism, are compact and robust. Thanks to its extraordinary mechanical performance of 10,000 CO cycles, the Circuit Breakers achieve long service life.
- Wide operating temperature range, dust proof and seismic design for harsh environment.
- Aluminum alloy housing for lower eddy current.
- Ease maintenance and long maintenance intervals.



252kV Smart GIS



550 kV Circuit Breaker

Technical Data

		550kV (H)GIS	363kV (H)GIS	252kV (H)GIS
Rated voltage (kV)		550	363	252
Rated current (A)		4000/5000/6300	4000/5000	3150/4000/5000
Rated frequency (Hz)		50/60	50	50
Rated short circuit breaking current (kA)		63	50	50
Rated short time withstand current/time (kA/s)		63/3	50/3	50/3
Rated withstand current, peak (kA)		160	125	125
Rated power frequency withstand voltage (kV)	To earth	740	510	460
	Across open Contact	740+315	510+210	460+145
Rated lightning impulse withstand voltage (kV)	To earth	1675	1175	1050
	Across open Contact	1675+450	1175+205	1050+200
Rated switching impulse withstand voltage (kV)	To earth	1300	950	/
	Across open Contact	1175+450	850+295	/
Mechanical endurance (times)	Circuit Breaker	10000	10000	10000
	Disconnecting and earthing switch	10000	10000	10000

*The specifications shown herein may be modified or improved at any time without notice or obligations.



★ Having passed type test at KEMA Laboratory