

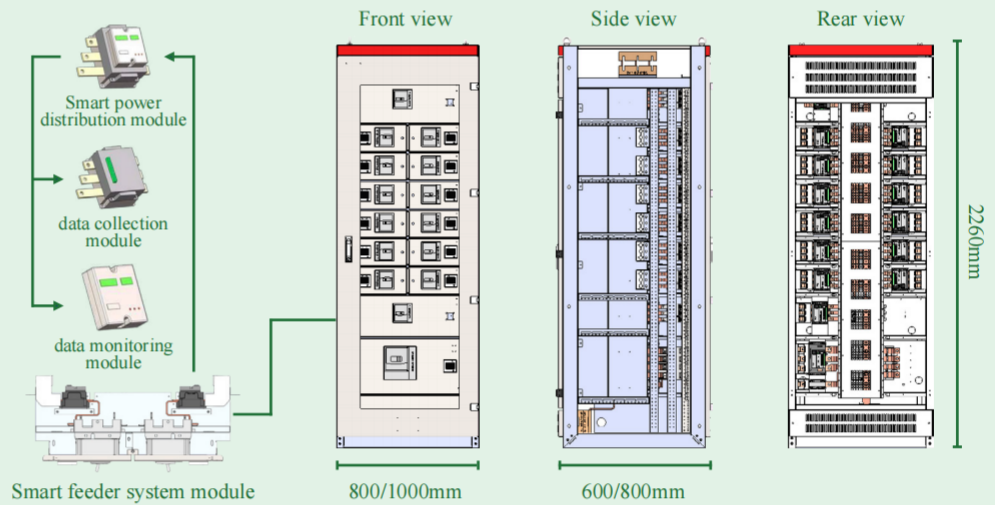


Z Series Low Voltage Switchboard



Product description

The Z series is a smart switchboard with fixed partitions equipped with our self-developed power distribution modules that can collect and monitor real-time operation data to enable remote control and testing for power plants and substations.



Working environment

- Indoor use with altitude no more than 2,000 meters
- Ambient temperate: $-5^{\circ}\text{C}(\text{min})$ to $40^{\circ}\text{C}(\text{max})$, daily average $\leq 35^{\circ}\text{C}$. If the temperature conditions cannot be met, the operation needs to be adjusted according to the actual situation
- The relative humidity should not exceed 50% at the maximum temperature of $+40^{\circ}\text{C}$, and a higher relative humidity is allowed at lower temperatures, such as 90% at $+20^{\circ}\text{C}$
- The switchboard is suitable for transportation and storage with temperature from $-25^{\circ}\text{C}(\text{min})$ to $+55^{\circ}\text{C}(\text{max})$, within a short period of time (not more than 24 hours) not exceeding $+70^{\circ}\text{C}$
- Client should negotiate with the manufacturer if the above conditions cannot be met

Technical features

- Modular design allows for stronger versatility and more compact and flexible arrangement of cabinets
- Assembled with 8MF cold bending bar steel, the cabinet framework is reliable and easy to assemble
- Smart and safe: integrated digital modules can collect and analyze operation data (current, voltage, frequency, active power, reactive power, etc.) of control circuits and state of circuit breakers (such as tripping signal and operation location), and cut off fault circuits in real time

Parameter	Unit	Data
Rated voltage	V	380(400)
Rated insulation voltage	V	660(690)
Rated current	A	≤1,600 (main circuit)
		≤630 (power distribution circuit)
Rated frequency	Hz	50
Rated short time withstand current	kA	≤55
Rated peak withstand current	kA	≤121
Degree of protection (enclosure)	/	IP 4X
Degree of protection (compartment)	/	IP 2X
Forms of separation	/	3a/3b
Modular Interval	mm	25
Location of horizontal busbar	/	upper
Pollution degree	/	III

Existing projects

- Guangzhou 200kV Dali power transmission and transformation project
- Guangzhou 200kV Liyuan power transformation project
- Guangzhou 200kV Ganling power transmission and transformation project

All products can be customized. By the end of 2022, we have sold a total of 27,146 low-voltage switchboards (across four models).

Also, we are licensed partners of Siemens' SIVACON 8PT-3200A~1600A/65KA and SIVACON 8PT-6300A~4000A/100KA products. We used to be a licensed partner of Schneider's 4000A~1600A/80KA and 5000A~4000A/100KA low voltage switchboard. Depending on client needs, we could resume our partnership and certification.