

TECHNICAL FEATURES

Doubly-Fed Converters - Three-Level



Efficient

The air-cooled converters are highly cost effective and different in configuration, which are suitable for high altitude on land, low temperature and other environments. It features high power density design, standard module design, and strong maintainability. Its super doubly-fed power generation mode operation can improve the power generation efficiency of the unit.



Friendly

It meets the requirements of low voltage ride through and high voltage ride through of the national grid and can adapt to a variety of complex grid environments. It features adaptive harmonic suppression technology, green power output and adaptability, and excellent grid dynamic reactive power compensation and primary frequency regulation function.



Reliable

The flexible configuration of sub-cabinet design meets customized demands and adapt(s) to various types of machine configuration requirements. It features integrated air duct cooling design to effectively reduce temperature rise of device and thus ensure product life. The innovative R&D capability of the whole industry chain and complete testing conditions ensure a full coverage of extreme operating conditions.



Intelligent

It has remote monitoring based on CSR Drive, online wave recording and intelligent diagnosis system. Its rich and flexible external interfaces can perfectly match all kinds of main control systems and motors. Its PHM online diagnosis technology can realize status repair and early warning of failure.



Doubly-Fed Converters -Three-Level (Parameters)

Parameters	Power Level	3.3MW	4.0MW	5.0MW	6.0MW	8.0MW
Grid Parameters	Grid Voltage	1140V+10%/-10%				
	Grid Frequency	45HZ-55HZ				
	Grid Current	2000A	2400A	3000A	3550A	4740A
	Grid-side Current	350A	450A	550A	600A	700A
Converter Parameters	Grid-side Overload Current (10s/10min)	600A	605A	605A	660A	770A
	Machine-Side Current	700A	800A	1200A	1250A	1400A
	Machine-Side Overload Current (10s/10min)	1000A	1300A	1320A	1375A	1540A
	Cabinet Size W x L x D(mm)	2400mm*2150mm*650mm	2400mm*2150mm*650mm	2700mm*2150mm*650mm	2700mm*2150mm*650mm	3300mm*2150mm*650mm
	Grid Voltage Harmonics (Withstand)	≤5%				
	Grid Voltage Imbalance (Withstand)	≤8%				
	Overall Efficiency	≥98.5%				
	Low Voltage ride through	Meet the latest national standard				
	Cooling Method	Forced Air Cooling				
	Noise	≤85dBA				
Environmental Parameters	Protection Level	Control cabinet IP54 switch cabinet power cabinet IP23				
	Operating Temperature	-35°C~+50°C				
	Storage Temperature	-40°C~+70°C				
	Altitude	3000m				