



» 旋转励磁整流组件 | Rotating Rectifier Excitation Components

- Presently, the brushless excitation rectifier components for 30-1350MW turbine generators are the company's main products.
- 300MW-1350MW turbo-generator rotating excitation rectifier components were developed jointly with Shanghai Turbo-Generator Co., Ltd and generated from the prototype of Westinghouse Technology. The technical parameters have reached or exceeded the original rectifier components. And the components were applied in nuclear power and multiple million-kilowatt generators.
- Brushless excitation technology is widely used in generators and motors, especially large generator. The rectifier component is fixed and integrated with the excitation rotor, it rotates synchronously, without the commutator, slip ring and carbon brush, so it is overwhelming advantage than brush excitation.
- Not need maintenance of slip rings and carbon brushes, high reliability.
- No pollution of motor coil caused by carbon powder and copper dust, long insulation life.
- No friction sparks, suitable for operation in harsh environments.
- Rotating rectifier excitation component is consisted of rectifier, capacitor, fuse, radiators and conductive parts, insulating parts, fasteners and other main components. The advantages are small size, strong function, high technical content, and a functional component that integrates heat and electricity.
- In accordance with the special structure and the harsh operating environment, the company has established a complete quality management system approved by Siemens Westinghouse. During the material and component screening, inspection of purchasing parts, processing and installation technology, and testing, all procedures are under strict management and supervision. So as to ensure our products fully satisfy the technical requirements of Westinghouse, operating in long-term and reliable performance.

Highlight: The rotating rectifier excitation component for 100 MW turbo generator was developed by us and delivered to Shanghai Steam Turbine successfully with many sets.



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Parameter:

Item Name	Rectifier					
	Rated Current	Rated Voltage	Forward Voltage Drop	Centrifugal Acceleration	Tangential Acceleration	T _{VJM}
	A	V	V	g	g	°C
1350MW Assembly for Nuclear Generator	800	2000	1.20 ± 0.025	6000	± 500	175
1000MW Assembly for Steam Turbine Generator	1000	2600	1.55	3000	± 600	175
600MW Assembly for Steam Turbine Generator	800	2000	1.20 ± 0.025	6000	± 500	175
300MW Assembly for Steam Turbine Generator	400	2000	1.20~ 1.25 ± 0.025	6000	± 500	175
50~150MW Air-cooling Assembly for Steam Turbine Generator	400	2000	1.20~ 1.25 ± 0.025	6000	± 500	175
30MW Assembly for Steam Turbine Generator	400	2000	1.20~ 1.25 ± 0.025	6000	± 500	175



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1350MW 汽轮发电机旋转励磁机整流组件
(2支整流管, 串联)
Rectifier Assemblies for Rotating Exciter in 1350MW Steam Turbine Generator
(2 pcs of rectifiers, series connection)



1000MW 汽轮发电机旋转励磁机整流组件
(2支整流管, 并联)
Rectifier Assemblies for Rotating Exciter in 1000MW Steam Turbine Generator
(2 pcs of rectifiers, parallel connection)



600MW 汽轮发电机旋转励磁机整流组件
(2支整流管, 并联)
Rectifier Assemblies for Rotating Exciter in 600MW Steam Turbine Generator
(2 pcs of rectifiers, parallel connection)



300MW 汽轮发电机旋转励磁机整流组件
(2支整流管, 串联)
Rectifier Assemblies for Rotating Exciter in 1000MW Steam Turbine Generator
(2-rectifiers, series)



50 ~ 150MW 空冷汽轮发电机励磁机整流组件
(1-整流管) (2-整流管, 串联)
Rectifier Assemblies for Rotating Exciter in
50 ~ 150MW Air-cooling Steam Turbine Generator
(1-rectifier) (2-rectifiers, series)



30MW 汽轮发电机旋转励磁机整流组件
Rectifier Assemblies for Rotating Exciter in 30MW Steam Turbine Generator