Defeng semi-direct drive wind turbine

The present invention provides a semi-direct drive direct-current wind turbine generator unit, and a control method and device therefor.

Having all of those moving parts makes the gearbox one of the highest- maintenance parts of a wind turbine. One alternative is to use a "direct drive" generator that can generate electricity at ...

Semi-direct drive and double-fed and direct-drive fans are different. One is that the transmission ratio of the semi-direct-drive gearbox is lower than that of the double-fed model, the other is that the semi ...

With high investment costs and complex maintenance, once MW wind turbine are out of gear, it will cause huge economic losses. Therefore, quantitative safety assessment of the entire life ...

DEC Wind has the capability to research, develop, and manufacture wind turbines using three mainstream technology paths: direct-drive, Double Fed, and semi-direct-drive, along with key ...

The core component of the wind turbine is an 18.X MW permanent magnet semi-direct drive generator, developed in-house by DEC, which says its new generator has low vibration, low ...

Aiming at this problem, this paper proposes a MW-scale HDDAFPMG, which combines high speed and low cost of semi-direct drive generator with simple structure, high efficiency and ...

The key design technologies of semi-direct drive permanent magnet synchronous wind turbine are studied, including the reduction method of cogging torque and the optimization of rotor ...

sign of 15MW offshore semi-direct-driven wind turbine is studied. First, analyze the development trend and demand, draw up the basic transmission plan, then, carry on the gear structure...

Sethuraman et al. (2014) investigated the effects of the oating wind turbine motion on direct-drive generator air gap integrity and showed that the air gap stability of the generator is more sensitive to ...

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