

Wind power semi-direct drive generator

What is direct drive wind turbine?

Direct drive wind turbine adopts multi-pole structure, which can achieve the direct coupling between the wind turbine and generator, so the gearbox can be omitted ,,

Are direct-drive permanent magnet generators suitable for high-power wind turbines?

Direct-drive permanent magnet generators for high-power wind turbines: Benefits and limiting determinants. IET Renewable Power Generation, 6 (1), 1-8 Two experts were interviewed and the literature reporting on the wind turbine drive trains was reviewed. A determinant is considered relevant if it is mentioned by an expert or in one of the papers.

Do direct-drive wind turbines need a low-speed generator?

Direct-drive wind turbines with a high power range require generators with high torque levels and low rotational speed. This chapter identified the challenges of low-speed generators in direct-drive wind turbines in terms of size, weight and cost. Different solutions have been outlined to overcome the drawbacks associated to such machines.

Can a direct drive generator be used in a 3.5 MW wind turbine?

Engstrom, S.; Lindgren, S. Design of NewGen Direct Drive Generator for Demonstration in a 3.5 MW Wind Turbine. In Proceedings of the EWEC (European Wind Energy Conference & Exhibition, Milan, Italy, 7-10 May 2007. [Google Scholar]

What is direct drive permanent magnet synchronous wind turbine?

With the continuous progress of power electronic technology and computer control technology, large-scale wind turbine can use the technology of direct driven permanent magnet wind turbines. Direct drive permanent magnet synchronous wind turbine is characterized by low speed and high torque requirements,,.

What is a variable speed direct drive wind turbine?

This type of wind turbine is known as the variable speed direct drive wind turbine and was introduced to eliminate gearbox failure and transmission losses. The rotor is directly connected to the generator, implying that the generator speed is equivalent to the rotor speed.

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