

Wind power direct drive generator cooling motor



Overview

This paper aims to overview the cooling techniques in direct-drive generators for wind power application, based on generator size, reliability and maintenance requirements. However, this is achieved at the cost of an increased generator size, larger inverter and decreased thermal. Direct drive generators have become advantageous for wind turbines, especially offshore wind, due to their increased reliability and efficiency. Since founded in 1949, Shanghai Electric Machinery Co.

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Cooling Techniques in Direct-Drive Generators for Wind Power

This paper aims to overview the cooling techniques in direct-drive generators for wind power application, based on generator size, reliability and maintenance requirements.

(PDF) Study on Air-Cooled Structure of Direct-Drive Outer-Rotor

To address the thermal issues in the 4.5 MW direct-drive permanent magnet synchronous generator (DD-PMSG), this paper proposes a novel forced air-cooling ventilation system.



(PDF) Cooling Techniques in Direct-Drive ...

Various cooling techniques suitable for generators are therefore reviewed and analyzed in this paper.

An Analysis of Different Techniques for Cooling Direct Drive Generators

In this work, four different cooling techniques for a 10 MW direct drive generator were assessed for maximum current density allowable within a class F insulation rating. These techniques ...

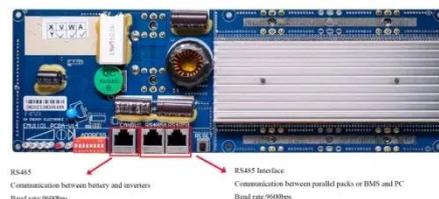


Cooling system of direct-driven wind turbine generator

In another aspect, the present invention provides a cooling system for a direct-drive wind power generator suitable for an outer rotor direct-drive wind power generator.

Company Profile

SEMC's main products include large and medium-sized AC & DC electric motors and generators, wind, steam, gas and hydro generators, etc. All these products are widely used in key industrial sectors ...



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Based on a 3.3 MW, 12 rpm permanent magnet direct drive wind generator, the cooling structure design and heat

transfer process analysis are studied in this paper.



Analysis and Otimization for 15MW Direct-Drive Wind Generator ...

To fully improve the presentation indexes of 15MW direct-drive permanent magnet wind generator, a method of stator core opening is proposed. First, we analyze t



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