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Direct drive motors and generators for wind turbines, hydro power and azipods. Effective cooling and high torque density. Lean design and production and low cost.

Various cooling techniques suitable for generators are therefore reviewed and analyzed in this paper. The performance and maintenance requirements are unavoidable compromises that need to be ...

The 2.5 MW direct-drive permanent magnet wind turbine cooling system uses forced air cooling, and the heat exchanger of the cooling system does not exchange gas, but only exchanges ...

The associated cooling system is therefore crucial to keep the generator and inverter sizes down and to operate within the safe thermal limits. Various cooling techniques suitable for ...

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 ...

Aiming at the driving mode of the original asynchronous motor reducer of a wind power cooling fan, which has major defects such as large loss and complex mainte

In one aspect the invention is directed to a direct drive wind turbine with a cooling system. The wind turbine has a generator with a rotor and a stator, a bearing with an inner ring...

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

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