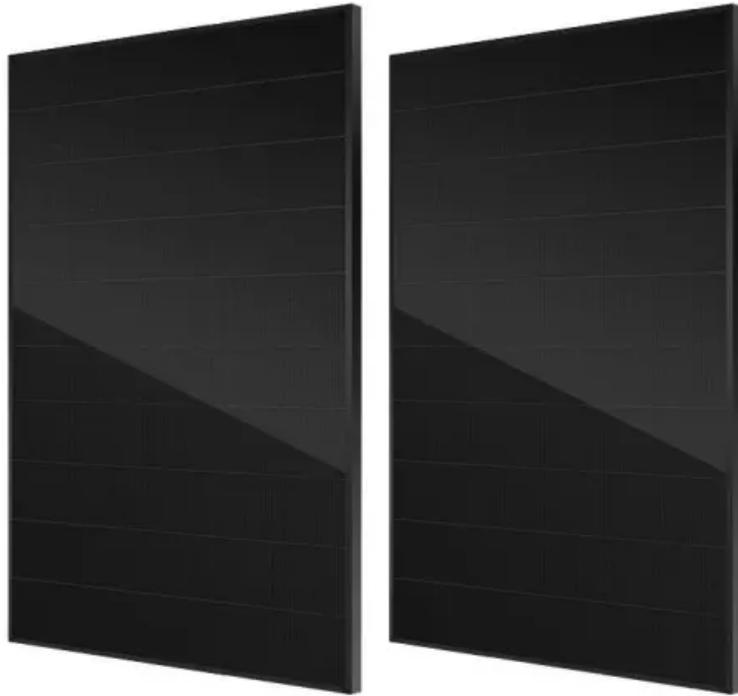


ContainerPower Energy Solutions

Wind turbine system transmission device



Overview

As wind turbines become larger and move into deeper sea, their operating environment worsen. The torque fluctuation inside the drive chain is aggravated, which leads to the premature failure of the wind t.

Which transmission system is used in wind turbine?

Normally, the mechanical transmission system (gear train) is used to transmit the power in wind turbine. But this transmission is not suitable in large scale power production. Currently, hydraulic power system has drawn an attention as a power transmission system in the wind turbine field.

What is power transmission in a wind turbine rotor?

The power transmission from the turbine rotor to the generator is an important and integral part of the wind turbine system. Generally, the power transmission unit is of two types, e.g., mechanical transmission system and hydrostatic power transmission system (HST).

Can mechanical power transmission system reduce power fluctuation in wind turbine?

The following conclusions can be drawn from this survey. 1. For large scale power production in wind turbine, the mechanical power transmission system is unsuitable. Also, reduction of the power fluctuation in wind turbine by the use of mechanical power transmission system is difficult. 2.

What is a wind power system?

A wind power system integrates different engineering domains, i.e. aerodynamic, mechanical, hydraulic and electrical. The power transmission from the turbine rotor to the generator is an important and integral part of the wind turbine system.

What is hybrid power transmission system in wind turbine system?

Also, the HST system helps to obtain a stable power from wind turbine using an accumulator whenever the input wind velocity is of fluctuating nature. In

this article, various schemes on the hybrid power transmission system in wind turbine system are addressed in a chronological order.

Can a wind turbine gearbox be used as a power transmission system?

Both the articles [25, 26] used gearbox as a power transmission system. In , Guerine et al. made a dynamic model with eight degrees of freedom of the wind turbine gear system to analyze its performance. An interval analysis method with uncertain-but-bounded parameters was considered for that analysis.

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