
80kw wind power generation system

What is a wes80 wind turbine?

The WES80 is a two bladed, high performance, reliable 80 kW midsize wind turbine with a rotor diameter of 18 meters with a new cover. The mechanical part of the WES80 is based on the original, proven design from 1983. For the electrical parts providing power conversion and control, the latest technology is used.

What are the components of a wind generation system?

In wind generation systems, the wind turbine, the electrical generator and the grid-interfaced converters are three key components that have been developed in the past 30 years 32,33. The turbine converts wind energy into mechanical energy.

How has technology changed wind power generators?

Meanwhile, the rapid development of power electronics technology has enabled a technological transformation in wind power generators over the past three decades (for example, from fixed-speed low-power wind turbine generators to variable-speed high-power wind turbine generators) 17, 19, 29.

What are the different types of wind turbine generation systems?

Two typical configurations of power electronic converter-based wind turbine generation systems have been widely adopted in modern wind power applications: type 3 wind generation systems with doubly fed induction generators (DFIGs) (Fig. 2a); and type 4 wind generation systems with permanent magnet synchronous generators (PMSGs) (Fig. 2b).

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Feature highlights: High-performance horizontal wind turbine with rated power options from 10KW to 500KW, featuring a three-phase permanent magnet AC synchronous ...

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Horizontal axis turbines are similar to propeller aircraft engines. Horizontal axis turbines have
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blades similar to aircraft propellers, ...

What are the wind power storage lines Wind power is the use of energy to generate useful work. Historically, wind power was used by, and, but today it is mostly used to generate electricity. ...

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