

ContainerPower Energy Solutions

1MW wind grid-connected inverter



Overview

What is a grid connected inverter?

The grid-connected inverter is a key device for connecting wind turbines to the grid, converting DC power into AC power and running synchronously with the grid. Voltage control: Adjust the output voltage of the wind turbine to the grid voltage. Frequency control: Adjust the output frequency of the wind turbine to the grid frequency.

How does a wind turbine inverter work?

The electricity produced is in DC so needs to be fed through an Inverter which in turn converts the electricity into AC which can be fed back into the Grid. Our wind turbine Inverter kits utilise the latest in 6 or 12 pulse AFE technology (25kW- 2MW) allowing for unity Power Factors to be maintained.

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Our wind turbine Inverter kits utilise the latest in 6 or 12 pulse AFE technology (25kW- 2MW) allowing for unity Power Factors to be maintained. Many wind turbines only generate at a fixed speed relative to the frequency of the grid either 50Hz or 60Hz. This limits the efficiency at lower wind speeds and may not be able to generate at all.

What type of inverter can be used on Aeolos wind turbines?

It can be used on Aeolos 1kW, 2kW, 3kW, 5kW and 10kW wind turbine system with CTW inverters. The dump load resistance is combined in one box and isolate with the control panel. In the premise of safety, it saves the installation space. Micro Wind Converter and Wind-Solar Hybrid Storage Inverters Micro Converter 1kW/ 2kW.

How do wind turbines connect to the grid?

Indirect connection links wind turbines to the grid via a substation, commonly employed in large wind farms. A collection system gathers power from

multiple turbines and elevates the voltage to grid level using a step-up transformer. This method concentrates power, enhances generation efficiency, and facilitates grid compliance. 2.

Are CTW inverters compatible with Aeolos wind turbines?

CTW-1.5-2ks-3ks-3.6ks-5ks Inverters matched with Aeolos 1kW, 2kW, 3kW and 5kW Wind Turbines. They have been passed the Intertek test according to VDE-AR-N 4105:2011-08 and DIN VDE V 0124-100. There is CE certificates which can be grid tied EU countries. This interface is a product for wind grid tied wind turbines.

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