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Comparison of wind resistance and environmental friendliness of photovoltaic containers





Overview

Are photovoltaic power generation systems vulnerable to wind loads?

(1) Background: As environmental issues gain more attention, switching from conventional energy has become a recurring theme. This has led to the widespread development of photovoltaic (PV) power generation systems. PV supports, which support PV power generation systems, are extremely vulnerable to wind loads.

Why is wind resistance important in PV power generation systems?

Therefore, wind resistance is essential for a safe, durable, and sustainable PV power generation system. There are three modes of support in PV power generation systems: fixed, flexible, and floating [4, 5]. Fixed PV supports are structures with the same rear position and angle.

How does wind affect photovoltaic panels?

As an environmental burden, the wind plays an important role in destroying the structure of photovoltaic modules. Based on the technical instructions of the installation of solar systems, the static load tolerance of crystalline photovoltaic panels equals 5400 Pa and film technology have a static load tolerance of 2400 Pa.

How can wind load research be carried out on PV supports?

For sustainable development, corresponding wind load research should be carried out on PV supports. (2) Methods: First, the effects of several variables, including the body-type coefficient, wind direction angle, and panel inclination angle, on the wind loads of PV supports are discussed.



Comparison of wind resistance and environmental friendliness of photovoltaic systems

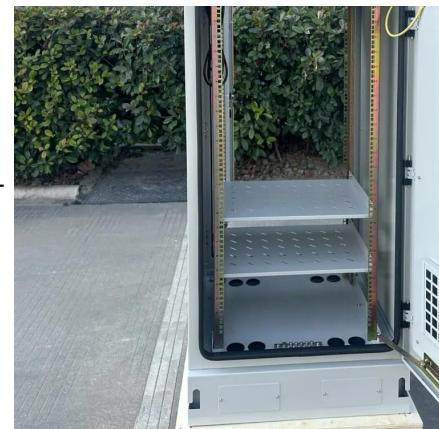


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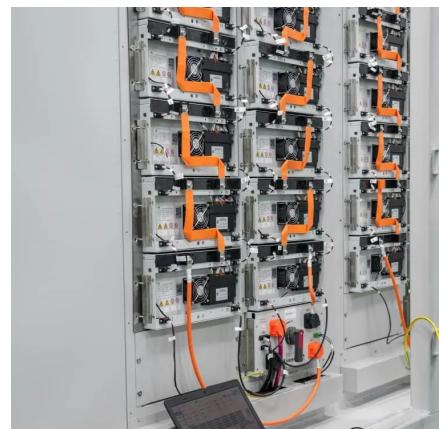
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