

Photovoltaic support load combination and value

What is the wind load of a PV support?

The wind load is the most significant load when designing a PV support; thus, its value and calculation should be investigated. Different countries have their own specifications and, consequently, equations for the wind loads of PV supports.

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.

How to reduce wind load of PV support structure?

It is also necessary to reasonably increase the template gap and reduce the ground clearance in order to reduce the wind load of the PV support structure, enhance the wind resistance of the PV support structure, and improve the safety and reliability of the PV support structure.

What are the requirements for photovoltaic support design?

According to the design requirements of power station, in the photovoltaic support design process, the array structure strength should meet the environmental requirements, such as the wind load 1.05 kN/m^2 , the snow load 0.89 kN/m^2 , and the basic parameters were shown in table 1.

What is a load matching indicator for photovoltaic energy supply?

For on-site renewable energy supply, such as photovoltaic (PV) electricity generation, an important issue is the daily and seasonal matching between on-site supply and demand. The matching potential is frequently expressed using the load matching indicators such as self-sufficiency and self-consumption.

What is the main goal of lightweight design of photovoltaic support?

The overall scheme of photovoltaic support structure and the type of section of the main profile were determined, and reducing the amount of aluminum material of the photovoltaic support was the main goal of lightweight design, under the premise of ensuring the structural strength of the photovoltaic support.

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