

Title: Construction cost of flexible photovoltaic support in mountainous area

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What are the advantages of flexible support photovoltaic module structure systems?

Since 2000, flexible support photovoltaic module structure systems have been widely used because of their advantages such as short construction period, large span, good economic performance, and suitability for various complex terrains.

Why are flexible PV mounting systems important?

Traditional rigid photovoltaic (PV) support structures exhibit several limitations during operational deployment. Therefore, flexible PV mounting systems have been developed. These flexible PV supports, characterized by their heightened sensitivity to wind loading, necessitate a thorough analysis of their static and dynamic responses.

What is a flexible PV mounting structure?

Flexible PV Mounting Structure Geometric Model The constructed flexible PV support model consists of six spans, each with a span of 2 m. The spans are connected by struts, with the support cables having a height of 4.75 m, directly supporting the PV panels. The wind-resistant cables are 4 m high and are connected to the lower ends of the struts.

Does a flexible support photovoltaic module reduce wind-induced vibration?

The results show that the frequencies of the new support system increase by 10.3 %, 37.6 %, and 28.7 %, respectively, and the modal changes are obvious. This can play a certain role in reducing the wind-induced vibration of the flexible support photovoltaic module system. Fig. 14.

In response to these challenges, flexible PV support systems have rapidly developed. Compared to conventional rigid PV supports, flexible PV supports offer advantages such as flexibility, ...

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Abstract The flexible support photovoltaic module structure system has advantages such as large span, fast construction speed, and suitability for complex environments. However, this kind ...

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