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Title: Safety factor of photovoltaic flexible bracket

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How safe are flexible PV brackets under extreme operating conditions?

Safety Analysis under Extreme Operating Conditions For flexible PV brackets, the allowable deflection value adopted in current engineering practice is 1/100 of the span length. To ensure the safety of PV modules under extreme static conditions, a detailed analysis of a series of extreme scenarios will be conducted.

Are PV modules safe under extreme static conditions?

To ensure the safety of PV modules under extreme static conditions, a detailed analysis of a series of extreme scenarios will be conducted. Given that the self-weight of the PV panels and flexible cables has a minimal impact on the flexible PV brackets, seismic loads are not considered.

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.

Do flexible PV support structures deflection more sensitive to fluctuating wind loads?

This suggests that the deflection of the flexible PV support structure is more sensitive to fluctuating wind loads compared to the axial force. Considering the safety of flexible PV support structures, it is reasonable to use the displacement wind-vibration coefficient rather than the load wind-vibration coefficient.

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The development direction of flexible photovoltaic bracket includes material innovation, structural optimization and intelligent design, which will play an important role in promoting the ...

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