

# How strong is the tension of the flexible photovoltaic bracket

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Generated on: 2026-02-14 02:42:39

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A DAS Solar flexible bracket counteracts high structural loads by applying pre-tension to a steel cable, allowing it to span between 20m and 40m by controlling cable ...

Taking a flexible PV bracket with a span of 30 m and a cable axial force of 75 kN as the research object, we investigate the variation patterns of the support cables and wind-resistant cables ...

When designing flexible photovoltaic supports, the requirements of structural stability, weather resistance, lightweight and strength must be comprehensively considered to ensure the long ...

The initial tension of the stability cable, span, and cable spacing are the main factors affecting the system stiffness. The initial tension of the component cable and the photovoltaic module ...

The pre-tension can offset the load from the upper structure, and by controlling the cable force and overall structural deformation, a large span can be achieved.

The suspension cable structure with a small rise-span ratio (less than 1/30) is adopted in the flexible photovoltaic support, and it has strong geometric nonlinearity.

Large-span characteristics: Compared with traditional fixed brackets, flexible photovoltaic brackets have a larger span and can solve installation problems in complex terrain and special projects.

The invention belongs to the technical field of flexible photovoltaic brackets, and particularly relates to a flexible photovoltaic bracket suitable for complex terrains.

A comparison was made in Table 2 of the vertical vibration dynamic characteristics of the flexible PV support structure, which were obtained through finite element model calculations and ...

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