

**PIENAAR ENERGY (PTY) LTD**

# **Flexible photovoltaic bracket trough structure**



## Overview

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The invention relates to the technical field of brackets, and provides a flexible photovoltaic bracket suitable for complex terrains, which comprises steel upright posts, wherein a plurality of groups of steel upright posts are arranged, the number of each group of steel upright posts is determined according to the terrain. The invention relates to the technical field of brackets, and provides a flexible photovoltaic bracket suitable for complex terrains, which comprises steel upright posts, wherein a plurality of groups of steel upright posts are arranged, the number of each group of steel upright posts is determined according to the terrain. When designing flexible photovoltaic supports, the requirements of structural stability, weather resistance, lightweight and strength must be comprehensively considered to ensure the long-term reliability of the supports in different climate conditions. In the selection of materials, aluminum is preferred. The utility model provides a flexible photovoltaic bracket, which comprises at least two bracket bodies, wherein steel beams are longitudinally arranged on the bracket bodies, a plurality of connecting plates are vertically arranged on the side surfaces of the steel beams at intervals along the length. The 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 m. Flexible photovoltaic (PV) support structure offers benefits such as low construction costs, large span length, high clearance, and high adaptability to complex terrain. The model consists of six spans, each with a span of 2 m.

## Flexible photovoltaic bracket trough structure

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### Improvement of the flexible support photovoltaic module system: A ...

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 ...

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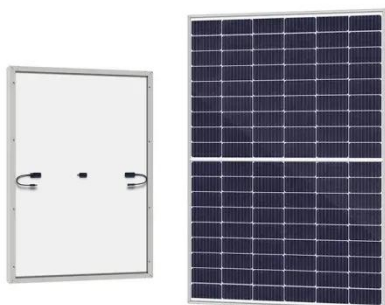
## The classification of flexible photovoltaic brackets

Flexible photovoltaic brackets are a type of large-span photovoltaic module support structure with tension-based design, where the components are supported by cables and fixed at ...



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## Classification of mountain photovoltaic flexible brackets

Frame bracket: A frame structure composed of multiple support rods and crossbars can be flexibly adjusted according to the size and number of photovoltaic modules.

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## DAS-Solar-News

Compared to traditional brackets, the DAS Solar flexible bracket is loaded primarily by tension cables. Through "suspension, tensioning, bracing, and compression," it provides a structural ...

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## CN220511040U

The utility model aims to provide a flexible photovoltaic bracket and aims to solve the problem that in the prior art, a photovoltaic plate on a guy cable cannot be subjected to angle

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## Flexible photovoltaic bracket end column structure

In short, the photovoltaic fixed and adjustable bracket is an efficient, reliable and flexible photovoltaic support structure, which is of great significance for improving the power

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## Flexible photovoltaic support steel structure installation

In the photovoltaic (PV) solar power plant projects, PV solar panel (SP) support structure is one of the main

elements and limited numerical studies exist on PVSP ground mounting steel frames to be a ...

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## Detailed analysis of flexible photovoltaic brackets

Structural composition: Flexible photovoltaic brackets are mainly composed of foundations, steel structures and cable bodies, connection accessories, wind-resistant systems and other parts.



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## Flexible photovoltaic bracket suitable for complex terrain

The invention relates to the technical field of brackets, in particular to a flexible photovoltaic bracket suitable for complex terrains.

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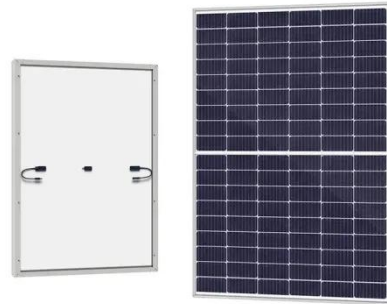
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## Key Points of Flexible Photovoltaic Bracket Structure Design

When designing flexible photovoltaic

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

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