

# Flexible photovoltaic bracket patent application

The utility model discloses a clamp for a flexible photovoltaic bracket, which comprises a photovoltaic module and a steel cable arranged below the photovoltaic module: the photovoltaic module is characterized in that a clamp is arranged on the steel cable and comprises a steel cable clamp sleeved on the steel cable, an outer hexagon bolt abutted against the steel cable is ...

The flexible photovoltaic module includes a front plate, a solar cell and a back plate. The front plate, the solar cell and the back plate are arranged from top to bottom. ... The present disclosure claims priority to Chinese patent application No. 201721723574.7, filed on Dec. 12, 2017, entitled "Flexible Photovoltaic Module", the ...

The invention discloses a flexible photovoltaic bracket mounting method, and relates to the technical field of flexible photovoltaic brackets. The flexible photovoltaic support installation method is completed by matching flexible photovoltaic support installation adjusting equipment, the flexible photovoltaic support installation adjusting equipment comprises two support leg ...

The invention relates to the technical field of photovoltaic brackets, and provides a flexible photovoltaic bracket which comprises two end beams, a bearing cable, a plurality of middle beams and a connecting mechanism; the connecting mechanism comprises a screw rod, a fixing piece, a nut and a height adjusting piece, wherein the screw rod penetrates through the middle ...

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. This study involves the ...

The application relates to the technical field of flexible supports, in particular to a flexible photovoltaic support, which comprises two supporting columns with adjustable heights, and also comprises two wire drawing frames, wherein the two wire drawing frames are respectively and detachably and fixedly arranged on the two supporting columns, wire laying mechanisms are ...

A solar module mounting bracket assembly includes a rail configured to support a solar module thereon, and a pair of braces. The braces each have a first end portion movably coupled to the rail. The braces are movable relative to the rail between a collapsed configuration and an expanded configuration. In the expanded configuration, the braces cooperatively define ...

The invention discloses a flexible photovoltaic bracket, which comprises a photovoltaic assembly, a flexible

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supporting piece and a pair of rigid supporting pieces which are arranged in parallel, wherein each rigid supporting piece consists of an upright post, a main girder, a main supporting column and an oblique supporting column; the first upright post is longer than the second ...

The utility model provides a large-span flexible photovoltaic bracket, which can be realized by arranging a first stable rope and a second stable rope which form a fish belly type stable rope structure; in addition, the middle part of the first stable rope passes through the space between the triangular support upright post and the triangular support diagonal brace, the middle part of ...

A self-balancing, photovoltaic panel technology, applied in the support structure of photovoltaic modules, photovoltaic modules, photovoltaic power generation and other directions, can solve ...

The flexible brackets for photovoltaics application has been unveiled by DAS Solar. High flexibility . 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 bracket to the modules by applying tension between ...

Photovoltaic brackets for glazed tile roofs provide a secure and aesthetically pleasing solution for mounting solar panels on tile roof surfaces. These brackets are designed to blend in with the roof tiles, preserving the aesthetic ...

The application discloses a flexible photovoltaic support, including two tip support assemblies, cable truss and wind-resistant truss. The angle among the first inclined rod, the second inclined rod and the vertical rod of the Y-shaped wind-resistant support of the cable truss can be determined according to the positions of the photovoltaic module and the stabilizing cable, and ...

The utility model relates to the technical field of photovoltaic equipment, and discloses a flexible photovoltaic support, which comprises a flexible photovoltaic support assembly, wherein the flexible photovoltaic support assembly comprises: a support frame; the flexible supporting piece is arranged at the top of the supporting frame; a photovoltaic panel mounted to an outer sidewall ...

The utility model discloses a steel cable anchor and a flexible photovoltaic bracket, wherein the steel cable anchor comprises a collet, a collet anchor ring and a first locking piece, the collet comprises a cylinder section and a cone section which are coaxially arranged, and one end of the cone section with a relatively small diameter is connected with the cylinder section; the column ...

the mounting bracket of the invention has a small floor space, is flexible and flexible, and is suitable for local conditions, and is not suitable for landforms, and is particularly suitable for agricultural greenhouses, wasteland, barren hills, fish ponds, beaches, rivers, abandoned land and abandoned mines, landfills, sewage treatment. Plants and other environmentally-friendly ...



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Flexible photovoltaic (PV) devices have attracted enormous attention from academy and industry as a convenient alternative energy source for indoor and outdoor applications. Flexible PV panels can be easily integrated with infrastructures of various shapes and sizes, meanwhile they are light-weight and thus suitable for applications where weight is important.

A tracking type flexible photovoltaic bracket is provided, including photovoltaic assemblies, pillars, a driving member, direction-changing mechanisms, and two pulling ropes. ...

Classification and characteristics of flexible photovoltaic supports 1. ... There is a necessity to extend the application of CFD method to flows around roof ...

A flexible and photovoltaic technology, applied in the support structure of photovoltaic modules, photovoltaic modules, photovoltaic power generation, etc., can solve the problems of high cost, ...

The Solar Pv Flexible Bracket is a top choice in our Solar Brackets collection. To source reliable suppliers of solar brackets in China, prior to finalizing a partnership, conduct thorough assessments of suppliers' credentials, request product samples where possible, and establish open communication channels for accurate expectation management.

The invention relates to the technical field of photovoltaic brackets, and particularly discloses a flexible photovoltaic bracket, which comprises the following components: the support structures are at least two in number and are arranged at intervals along the first direction, one end of each support structure is anchored on a foundation, and the other end of each support structure is ...

Flexible Solar Panel Brackets that bolt onto vehicle roof racks and cargo racks. The thin film flex panels can be removed from the brackets in seconds for better efficiency. The solar panel Brackets have a low profile & aerodynamic design ...

Development of large-scale, reliable and cost-effective photovoltaic (PV) power systems is critical for achieving a sustainable energy future, as the Sun is the largest source of clean energy available to the planet []. Photovoltaics are also an ideal power source for remote locations without electric grid access [], and are of interest for numerous smaller scale ...

The triangle brackets at spans  $2/5$  and  $3/5$  have the same size, while the other two have the same size. The four triangle brackets are made of steel bars with an inner diameter of 1 cm and an outer diameter of 3 cm. The steel I-beams are supported by reinforced concrete (RC) columns and anchored at both ends by stay cables to the ground.

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