

The invention provides a water construction method of a photovoltaic bracket foundation pile, which comprises the following steps: the X-axis track and the Y-axis track are respectively provided with an independent navigation positioning ship, and the positioning ship is provided with a first laser emitting device with adjustable height and an omnibearing laser receiving column ...

A photovoltaic mounting apparatus includes a mounting frame coupled to a pile capable of being anchored in numerous terrain and slope conditions, universal clamping for mounting any type ...

A photovoltaic bracket and integrated technology, which is applied to the supporting structure of photovoltaic modules, photovoltaic power generation, photovoltaic modules, etc., can solve the ...

8 types of foundations commonly used in photovoltaic brackets Prestressed concrete pipe piles with a diameter of about 300mm or square piles with a cross-sectional size of about 200*200 are driven into the soil. Steel plates or bolts are reserved on the top to connect with the front and rear columns of the upper support.

The utility model discloses a double-pile ground photovoltaic bracket which comprises two spiral ground piles. The top of each spiral ground pile is provided with a fixing seat. Each fixing seat is provided with a crossbeam which can rotate relative to the fixing seat. A plurality of tracks are fixed between the two crossbeams. A photovoltaic assembly is fixed above the tracks.

Different design methods of solar photovoltaic brackets can make solar modules make full use of local solar energy resources, so as to achieve the maximum power generation efficiency of solar modules. Moreover, the different materials, assembly methods, bracket installation angles, wind loads and snow loads of solar photovoltaic brackets can greatly ...

The utility model discloses a kind of pile foundation for Frozen Ground Area photovoltaic bracket, mainly includes casing and concrete-pile two parts form; Described casing is the polystyrene plastics cystosepiment of drum; Described concrete-pile includes second pouring pea gravel concrete, arrangement of reinforcement, spiral hoop; Described spiral hoop is looped around ...

The piled WSPV system (Fig. 5 c) operates by driving piles underwater, and a bracket is attached to the piles to support the photovoltaic module in generating electricity. Pile driving disturbs the underwater environment and adversely affects aquatic organisms and water quality. In contrast to land-based photovoltaic systems, they reduce the ...

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Photovoltaic pile bracket patent

products developed and designed by Weineng Smart Energy for the construction of photovoltaic and photothermal power stations, which is disruptive, stable in ...

An integral, monolithic mounting bracket supports a corner of a photovoltaic module. The bracket includes a ballast tray for holding one or more ballast blocks, and includes ...

Micro steel pipe pile was used for existing foundation reinforcement and renovation. An energy micro pile-raft foundation equipped with heat exchange tube was constructed in silty clay.

The results indicate that 1) the number of patents deposited on photovoltaic cells grows every year, 2) the main depositor countries are the United States, China, Japan, Germany and South Korea, 3 ...

Photovoltaic power plant bracket bored concrete pile localization method of the present invention, belongs to architectural mapping field. Purpose be to provide one simply, photovoltaic power plant bracket bored concrete pile localization method efficiently prise the following steps: 1) determine control point according to the coordinate of design drawing offer;2) on the basis of ...

@article{osti_1136395, title = {Bracket for photovoltaic modules}, author = {Ciasulli, John and Jones, Jason}, abstractNote = {Brackets for photovoltaic ("PV") modules are described. In one embodiment, a saddle bracket has a mounting surface to support one or more PV modules over a tube, a gusset coupled to the mounting surface, and a mounting feature ...

The invention discloses a solar photovoltaic bracket which comprises horizontal guide rails, longitudinal guide rails, front pillars, rear pillars, lateral tension braces, rear tension braces and ground piles, wherein the lower ends of the front pillars and the rear pillars are connected with the upper ends of the ground piles; the two ends of the longitudinal guide rails are connected with ...

The utility model provides a kind of foundation pile suitable for Frozen Ground Area photovoltaic bracket, belongs to field of photovoltaic technology includes: Prefabricated pile body;Pea gravel concrete layer, its cladding are arranged on the prefabricated pile body surrounding;Wherein, the prefabricated pile body includes the steel reinforcement cage being ...

Water PV have still challenges to overcome: Fixed-pile PV may encounter problems with the silt layer; floating PV installation and maintenance is more human and material intensive, environmental protection and longevity issues need also attention; accumulation of garbage in a water photovoltaic power plant will affect the daily maintenance and the water ...

The invention discloses a kind of over-water construction methods for photovoltaic bracket foundation pile, comprising the following steps: A, sets up Beidou locating base station;B, a datum mark O is chosen, level coordinates system is established, determines each position in the coordinate of level coordinates system;C, a guide pile is squeezed into underwater soil layer, ...

Photovoltaic pile bracket patent

The utility model discloses a kind of screw pile supporting photovoltaic bracket, comprise pile body, spiral shirt rim, connector, spiral shirt rim is arranged on the body portion of pile body and the longitudinal direction along pile body is arranged, connector is fixed on one end of pile body, and the material of described pile body, spiral shirt rim, connector is glass fiber reinforced ...

According to the photovoltaic bracket, angles of photovoltaic panels can be adjusted to be matched with the optimal illumination angle through adjusting directions of the first upright columns and directions of the rotary regulating mechanisms. ... 2016-11-17 Priority to CN201611011830.XA priority Critical patent/CN106712674B/en 2017-05-24 ...

The utility model discloses a photovoltaic bracket, which comprises a fixing mechanism, a supporting and adjusting mechanism and a reinforcing mechanism, wherein the fixing mechanism comprises an upright post; the supporting and adjusting mechanism comprises a supporting structure and an adjusting structure, the supporting structure comprises an inclined beam and ...

(3) The photovoltaic power generation panel installation system of the present invention includes a plurality of foundation piles made of H steel to be placed on the ground, A support base mounting bracket attached to the top end of the foundation pile; A support frame installed and supported at the top end of the foundation pile via the ...

The utility model provides a reducing photovoltaic support screw pile foundation, includes upper portion steel pipe, and the lower extreme of upper portion steel pipe is connected with the upper end of lower part steel pipe, and upper portion steel pipe and the surface of lower part steel pipe are equipped with helical blade, and the internally mounted photovoltaic support stand of upper ...

China Photovoltaic Bracket wholesale - Select 2024 high quality Photovoltaic Bracket products in best price from certified Chinese Aluminum Bracket manufacturers, Mount Bracket suppliers, wholesalers and factory on Made-in-China ... Professional Manufacturer Produces Fully Automatic Pile Driver for Photovoltaic Brackets. US\$ 19999-29999 ...

The utility model is related to a kind of photovoltaic bracket and its pile piles, when installation, on the ground by the installation end installation of pile pile, the abutting end of pile pile with vertical supporting rod for matching, and vertical supporting rod is set to the outer peripheral edge of pile pile, and the opposite sides of pile pile is both provided with vertical supporting ...

The utility model discloses a basalt fiber photovoltaic bracket, belonging to the technical field of solar photovoltaic power generation; the utility model is provided with a plurality of cross beams and base columns which are arranged at two ends of the cross beams and used for obliquely supporting the cross beams; the side beams are arranged at two ends of the cross beam and ...

Photovoltaic pile bracket patent

The invention provides a kind of photovoltaic bracket pile for farmland, including pile cylinder, connecting seat, auxiliary round platform, bottom frustum; By using cone-shaped nose cone and pentagonal first pile slab structure, make the installation of pile more laborsaving, conveniently, farmland will not be damaged when entering ground; By aiding in the distribution of the peg ...

Construction instrument is the utility model is related to, particularly a kind of photovoltaic bracket pile foundation hole protection device cluding sleeve pipe, described sleeve pipe is placed in pile foundation hole, and the height of sleeve pipe is more than the depth of pile foundation hole, and the top of sleeve pipe is arranged with handle hole, and one end of operation handle is ...

The offshore PV foundation consists of an upper PV bracket and four helical piles. Due to the large span of the PV bracket, every two helical piles are spaced relatively far apart, typically more than 20 times the pile shaft's diameter, allowing the group pile effect to be ignored . Therefore, for an in-depth study of the helical piles ...

The utility model discloses a kind of photovoltaic bracket pull-out resistant pile foundation adjustable steel bearings, including uplift principle, uplift principle is internally provided with a reinforcing bar, steel sleeve is embedded in uplift principle, steel sleeve lower part is fixed on a reinforcing bar, steel sleeve top is higher by uplift principle stake top, and bracket upright post ...

A kind of hillside formula photovoltaic bracket, comprise front column, rear column, pile and supporting mechanism, the bottom of front column and rear column embeds in pile respectively, and regulate height by bolt, front column is connected with supporting mechanism respectively by triangle connection element with the top of rear column, the first anchor ear is arranged with ...

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