Weiwu vci photovoltaic bracket



What is cable-supported photovoltaic (PV)?

Cable-supported photovoltaic (PV) modules have been proposed to replace traditional beam-supported PV modules. The new system uses suspension cables to bear the loads of the PV modules and therefore has the characteristics of a long span,light weight,strong load capacity,and adaptability to complex terrains.

What are the characteristics of a cable-supported photovoltaic system?

Long span,light weight,strong load capacity,and adaptability to complex terrains. The nonlinear stiffness of the new cable-supported photovoltaic system is revealed. The failure mode of the new structure is discussed in detail. Dynamic characteristics and bearing capacity of the new structure are investigated.

What is a PV support structure?

Support structures are the foundation of PV modules and directly affect the operational safety and construction investment of PV power plants. A good PV support structure can significantly reduce construction and maintenance costs. In addition, PV modules are susceptible to turbulence and wind gusts, so wind load is the control load of PV modules.

What is a new cable supported PV structure?

New cable supported PV structures: (a) front view of one span of new PV modules; (b) cross-section of three cables anchored to the beam; (c) cross-section of two different sizes of triangle brackets. The system fully utilizes the strong tension ability of cables and improves the safety of the structure.

What factors affect the bearing capacity of new cable-supported photovoltaic modules?

The pretension and diameter of the cablesare the most important factors of the ultimate bearing capacity of the new cable-supported PV system, while the tilt angle and row spacing have little effect on the mechanical characteristics of the new type of cable-supported photovoltaic modules.

How many PV modules are in a cable-supported PV system?

The new cable-supported PV system is 30 m in span and 3.5 m in height and consists of 15 spans and 11 rows. The center-to-center distance between two adjacent rows is 2.9 m. There are 25 PV modulesin each span, which are divided into 5 groups. Each group has 5 PV modules, and the gap between two groups is set at 10 cm.

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Photovoltaic (PV) generation is increasingly popular in power systems. The nonlinear dependence associated with a large number of distributed PV sources adds the complexity to construct an ...



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