

Photovoltaic 4cm bracket load-bearing standard

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.

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 new cable-supported photovoltaic system?

A new cable-supported photovoltaic system is proposed. 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.

What is a supporting cable structure for PV modules?

Czaloun (2018) proposed a supporting cable structure for PV modules, which reduces the foundation to only four columns and four fundaments. These systems have the advantages of light weight, strong bearing capacity, large span, low cost, less steel consumption and applicability to complex terrain.

How does torsion stiffness affect load bearing capacity of PV system?

The increase of torsion stiffness when the torsion displacement rises benefits the stability of the new PV system. The load bearing capacity of the PV system is discussed under self-weight, static wind load, snow load, and their combination.

What are the characteristics of a new cable-supported PV system?

Dynamic characteristics As the new cable-supported PV system has the characteristics of a smaller mass and greater flexibility, vibration suppression is one of the key factors of the new structures. Therefore, the mode shapes and modal frequencies are important parameters in the structural design of the new cable-supported PV system.



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