

What are the structural static characteristics of a new PV system?

The structural static characteristics of the new PV system under self-weight, static wind load, snow load and their combination effect are further studied according to the Chinese design codes (Load Code For The Design Of Building Structures GB 2009-2012 and Code For Design Of Photovoltaic Power Station GB 50797-2012).

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 fixed adjustable photovoltaic support structure?

In order to respond to the national goal of "carbon neutralization" and make more rational and effective use of photovoltaic resources, combined with the actual photovoltaic substation project, a fixed adjustable photovoltaic support structure design is designed.

How do triangular brackets work?

Four triangular brackets are arranged at the sections of $1/5$, $2/5$, $3/5$, and $4/5$ spans. Three cables are fixed at the three vertices of the triangular brackets. The triangular brackets connect the three load-bearing cables as an integral structure and lift up the PV modules to maintain their flatness. Fig. 2.

Are ground-mounted PV systems a good choice for large-scale solar farms?

Ground-mounted PV systems have been widely used in large-scale solar farms in deserts, open areas and mountains. These systems are cost-effective and easy to construct. However, they occupy large land resources, have high requirement for land flatness, and damage soil and vegetation.

What are PV modules made of?

The columns and lateral beams are made of reinforced concrete and steel I-beams, respectively. The load-bearing cables and anchor cables are pretensioned steel wires. The PV modules are directly installed on the upper load-bearing cables (Cables 1 and 2). The pretensioned cable is referred to as Cable 3.



Photovoltaic bracket string structure diagram

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