

Three-cable flexible support photovoltaic



Overview

Three-cable-supported flexible photovoltaic (PV) systems have broad application prospects due to their large span, economic efficiency, and strong adaptability to various terrains. This kind of support system. The invention discloses a three-cable system photovoltaic flexible support, which belongs to the field of three-cable system photovoltaic flexible support equipment and comprises at least two groups of main cable systems which are adjacently arranged and a connecting rod wind-resistant system which. The flexible photovoltaic support system is one of the systems that have been proposed to support photovoltaic modules with wide application potential in recent years. Due to the low natural frequency of this structure and its cross-section being similar to that of a thin flat plate.

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The invention relates to the technical field of three-cable system photovoltaic flexible support equipment, in particular to a three-cable system photovoltaic flexible support.

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Parametric study on flutter performance of three-cable-supported

This work takes a typical three-cable-supported flexible PV support structure as an example and establishes a flutter analysis finite element model that considers aerodynamic ...



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Improvement of the flexible support photovoltaic module system: A ...

Abstract The flexible support photovoltaic module structure system has advantages such as large span, fast construction speed, and suitability for complex environments. However, this kind ...

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China Flexible Support Series, Large

Span, Double Cable/Three Cable

The flexible photovoltaic support structure, component system, and specialized component connectors have passed wind tunnel tests conducted by the China Aerospace Aerodynamic Technology ...

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Parametric study on flutter performance of three-cable-supported

Flutter analysis is performed on a three-cable-supported flexible PV support structure using the full-order method. The dominant flutter modes and their energy participation factors are ...

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Analysis on flutter performance of flexible photovoltaic support based

Abstract Taking a three-cable flexible photovoltaic (PV) support structure as the research subject, a finite element model was established. Utilizing a full-order flutter analysis method, the flutter critical wind ...



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Study on mechanical properties of a 35-meter-span three ...

To improve the span and stiffness and widen the application scene of the

flexible photovoltaic support system, a new type of three-dimensional cable-truss flexible photovoltaic support system is proposed ...

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