

# **Cable structure flexible photovoltaic support**



## Overview

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In this paper, the mechanical behavior of a single-cable structure is introduced, and the simplified analytical formulations for internal force and displacement are deduced based on the geometric nonlinear characteristics and small strain assumption of the flexible photovoltaic. In this paper, the mechanical behavior of a single-cable structure is introduced, and the simplified analytical formulations for internal force and displacement are deduced based on the geometric nonlinear characteristics and small strain assumption of the flexible photovoltaic. With the rapid development of the photovoltaic industry, flexible photovoltaic supports are increasingly widely used. Parameters such as the deflection, span, and cross-sectional dimensions of cables are important factors affecting their mechanical and economic performance. Therefore, in order to. The invention relates to the technical field of photovoltaic supports, in particular to a flexible photovoltaic support structure, which comprises an anchor frame used for connecting a foundation and a plurality of cable trusses arranged on the anchor frame and used for connecting photovoltaic. What is a flexible PV support structure?

The baseline, unreinforced flexible PV support structure is designated as F. The first reinforcement strategy involves increasing the diameter of the prestressed cables to 17. This kind of support system. The flexible support photovoltaic module structure system has advantages such as large span, fast construction speed, and suitability for complex environments. suspension cable PV module column bracing (cord) beam of support.

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The cable truss flexible photovoltaic support (CTFPS) is mainly composed of load-bearing cables, stability cables, and struts, with a higher overall stiffness which significantly reduces



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