Photovoltaic support spiral pile construction

Photovoltaic spiral ground piles are the core components of the foundation construction of ground photovoltaic power stations. The spiral blades adopt a multi-level gradient design.

The invention further discloses a production process of the spiral ground pile of the photovoltaic support.

The common forms of photovoltaic support foundations include concrete independent foundations, concrete strip foundations, concrete cast-in-place piles, prestressed high-strength concrete (PHC ...

Photovoltaic screw ground pile can reduce the cost of the foundation of the support system, shorten the installation time, and reduce the environmental impact of the ground photovoltaic support system.

In this study, the frost jacking characteristics of steel pipe screw piles for photovoltaic support foundations in high-latitude and low-altitude regions are studied via in situ tests and numerical ...

The photovoltaic spiral pile can effectively adapt to a variety of geological conditions due to its unique design. Whether it is a hard rock layer or a soft soil foundation, the photovoltaic spiral pile can ...

This study has comprehensively investigated the bearing characteristics of three types of photovoltaic support piles, serpentine piles, square piles, and circular piles, in desert gravel areas.

Projects requiring high load capacities--such as those with large, heavy solar panels or in regions with significant wind forces--may necessitate the use of concrete or composite piles. ...

The spiral steel pile foundation, also known as a steel ground anchor, is an increasingly widely used foundation form for photovoltaic brackets. It consists of hot-dip galvanized steel pipe ...

This article focuses on the core characteristics of spiral ground piles, detailing their performance indicators, material selection, scenario adaptation solutions, and key construction quality control ...

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