

V-shaped pull rod for photovoltaic bracket

How many rods are in a photovoltaic axis bar?

The axis bar is composed of 11 shaft rods. Photovoltaic panels are installed on the photovoltaic support purlins. The reciprocating rotation (tilt angle) of the axis bar allows the panel to receive direct sun. The structure is symmetrical with respect to the axis bar, and the axis bar provides a fixed axis for torsional deformation.

How many pillars does a photovoltaic support system have?

The tracking photovoltaic support system consisted of 10 pillars (including 1 drive pillar), one axis bar, 11 shaft rods, 52 photovoltaic panels, 54 photovoltaic support purlins, driving devices and 9 sliding bearings, and also includes the connection between the frame and its axis bar. Total length was 60.49 m, as shown in Fig. 8.

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 tracking photovoltaic support system?

The tracking photovoltaic support system (Fig. 1) is mainly composed of an axis bar, PV support purlins, pillars (including one driving pillar in the middle and nine other non-driving pillars), sliding bearings and a driving device. The axis bar is composed of 11 shaft rods. Photovoltaic panels are installed on the photovoltaic support purlins.

What are the dynamic characteristics of photovoltaic support systems?

Key findings are as follows. Dynamic characteristics of tracking photovoltaic support systems obtained through field modal testing at various inclinations, revealing three torsional modes within the 2.9-5.0 Hz frequency range, accompanied by relatively small modal damping ratios ranging from 1.07 % to 2.99 %.

Does a tracking photovoltaic support system have vibrational characteristics?

In this study, field instrumentation was used to assess the vibrational characteristics of a selected tracking photovoltaic support system. Using ANSYS software, a modal analysis and finite element model of the structure were developed and validated by comparing measured data with model predictions. Key findings are as follows.

Practical U Shape Design: These stainless steel rod brackets can hold a maximum diameter of 25mm/1 Inch rod; The u-shaped design allows for easily install and quick removal of the rod; This closet rod brackets can compatible ...



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