

ContainerPower Energy Solutions

Solar power station automatic tracking system



Overview

What is a solar tracking system?

A solar panel precisely perpendicular to the sun produces more power than one not aligned. The main application of solar tracking system is to position solar photovoltaic (PV) panels towards the Sun. Most commonly they are used with mirrors to redirect sunlight on the panels.

What is an automatic Solar Tracking System (STS)?

An automatic solar tracking system (STS) is an emerging technology that rotates a solar panel or solar concentrator to various positions throughout the day by monitoring the current position and path of the sun.

What is automatic solar tracking?

The main aim of any automatic STS is to maximize the amount of sunlight that the solar concentrator or module will receive, resulting in the maximization of the overall energy outputs of the system. Solar tracking can be performed in two ways: single-axis tracking and double-axis tracking.

What is solar photovoltaic tracking technology?

Solar photovoltaic tracking technology will play a pivotal role in global energy production, fostering the realization of a clean and sustainable energy future. A prototype control system for a PV power plant was constructed with the movement following the position of the Sun, where the position control takes place in two planes.

Why should you use a solar tracker?

By utilizing a solar tracker, the number of solar panels needed to generate the same amount of electrical energy will be significantly lower. In general, solar tracking systems are classified as single-axis solar tracking systems and dual-axis solar tracking systems.

How can solar trackers improve energy production?

These efforts emphasize the significance of enhancing solar panel efficiency and energy production with sophisticated tracking and control systems. Recent developments in solar tracker systems include exploring different module geometries, materials, and tracking mechanisms to boost efficiency.

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