

# **Doc Solar Panel Automatic Tracking System**





## Overview

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What is a solar tracking system?

This is the true position of the sun as seen from an observer on the surface of the earth. From fig. A solar tracking system refers to a system which is able to track the movement of the sun throughout the day for maximum energy efficiency and have it at a perpendicular angle to the plane of the solar panel.

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.



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Apr 7, 2021 · Furthermore, a comparison was drawn between traditional static solar panels and various tracking systems. This was done by examining other peer reviewed research into the ...



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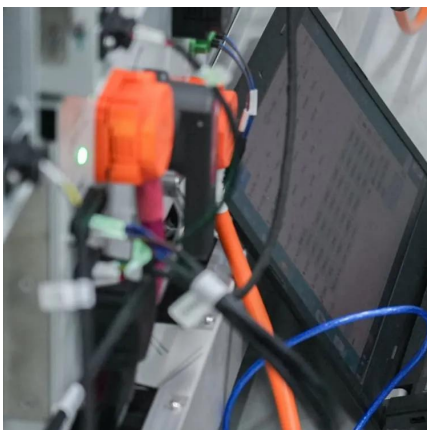
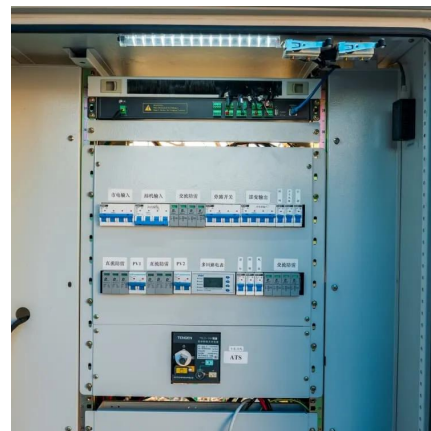


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