

Title: Sliding solar power generation

Generated on: 2026-05-14 09:42:23

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This study introduced a high-performance MPPT strategy by combining Adaptive Particle Swarm Optimization (APSO) with Terminal Sliding Mode Control (TSMC), specifically tailored to ...

This paper describes the performance analysis and design of a self-cleaning solar PV sliding system that not only protects the solar panels from dirt deposition, but also protects them from ...

The sliding rail mechanism for the solar power generation system according to the present invention can support the solar panels so that the solar panels can be unfolded or contracted...

LZY-MS1 Sliding Mobile Solar Container is a portable containerized solar power generation system, including highly efficient folding solar modules, advanced lithium battery storage and intelligent ...

In this paper, a robust optimized controller is implemented in the photovoltaic generator system (PVGS). The PVGS is composed of individual photovoltaic (PV) cells, which convert solar ...

In order to control both active and reactive power, MAs and advanced controllers are essential. Researchers have used one of the recently developed MAs, known as the CAO, which is ...

This paper presents a comprehensive exploration of an integrated Buck-Boost converter and Sliding Mode Control (SMC) Maximum Power Point ...

This paper presents a nonlinear generalized global sliding mode controller (GGSMC) to harvest maximum power from a PV array using a DC-DC ...

The performance of the sliding-bed receiver in practical applications such as the dish-type and the tower-type concentrated solar power systems were further forecasted.

In addressing effective energy extraction from the PV system, this paper presents a controller design strategy



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to track the MPP of a PV system using the sliding mode control method of ...

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