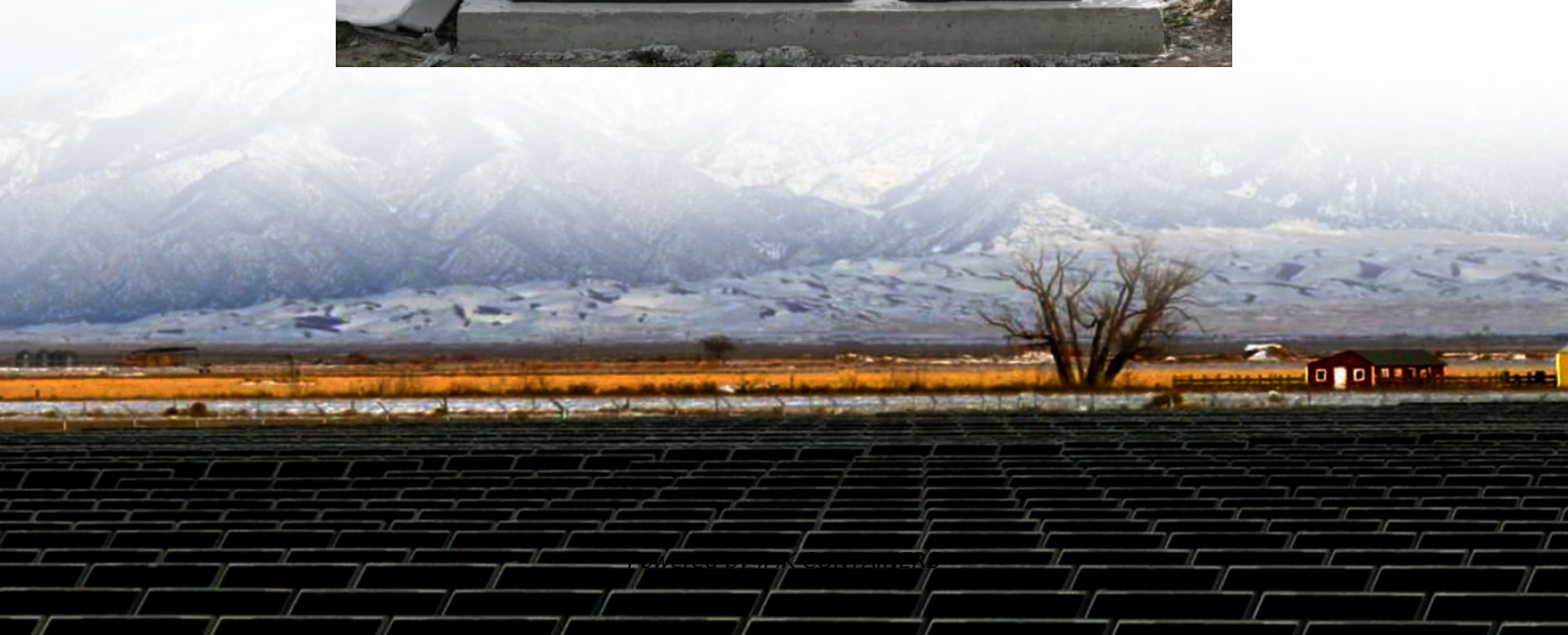


Solar temperature difference automatic control water pump





Overview

What is a photovoltaic water pumping system (pvwps)?

One of the most important applications of SE in rural settings is Photovoltaic Water Pumping Systems (PVWPS). These systems are used for irrigation, livestock watering, and other essential purposes, providing reliable and sustainable solutions that reduce dependency on traditional energy sources while enhancing agricultural productivity 4.

Can Ann-DTC be used in photovoltaic water pumping systems?

To illustrate the superiority of the proposed ANN-DTC in photovoltaic water pumping systems (PVWPS), a comparative analysis is conducted against several established methods, including Field-Oriented Control (FOC), Direct Torque Control (DTC), and Fuzzy Logic-based DTC (FL-DTC).

Can Ann-based MPPT optimize power output in photovoltaic systems?

In 34 the authors introduced the ANN-based MPPT approach to optimize power output in photovoltaic systems, particularly electric vehicles, by only measuring voltages and currents. This method is cost-effective, requires no additional sensors, and adapts swiftly to fluctuating conditions.

Can soft computing be used for MPPT of solar PV system?

The application of soft computing methods for MPPT of PV system: a technological and status review. Appl. Energy. 107, 135–148 (2013). Saxena, A., Kumar, R., Amir, M. & Muyeen, S. M. Maximum power extraction from solar PV systems using intelligent based soft computing strategies: a critical review and comprehensive performance analysis.



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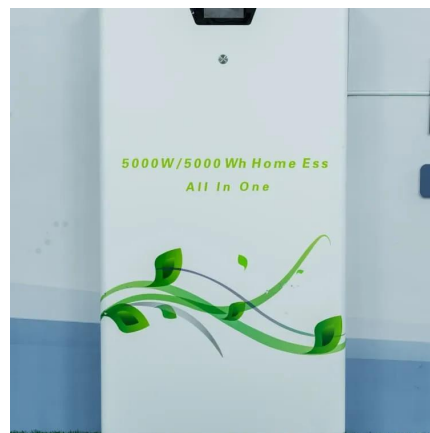
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The paper is structured as follows: Section " Solar water pumping system design " provides a comprehensive overview of the Photovoltaic Water Pumping System and its key ...

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