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Mobile Energy Storage Container for Agricultural Irrigation Single Phase





Overview

Is a smart irrigation system a cost-effective solar-powered water pump with IoT integration?

The smart irrigation system includes a NodeMCU microcontroller, moisture and temperature/humidity sensors, and a relay board. The main contribution of this study is to design and fabricate a cost-effective solar-powered water pump with IoT integration for the smart irrigation system.

Can a solar-powered portable water pump control IoT-enabled smart irrigation system?

An IoT smart irrigation system (IoT-SIS) is developed to monitor the surroundings and control the pump over the Internet. The IoT-SIS-SPWP system is implemented in a real environment for practical analysis and functionality testing. This paper proposes a solar-powered portable water pump (SPWP) for IoT-enabled smart irrigation system (IoT-SIS).

Does a solar-powered modified controlled storage system prevent microbial growth?

The study evaluates the electrical and thermal performance of a system for renewable energy-integrated electric vehicle applications. It also investigates the effectiveness of a solar-powered modified controlled storage (MCS) system in preventing microbial growth and maintaining agro-produce quality during storage and transport.

How is IoT transforming irrigation systems?

The IoT concept is enabled to form a smart irrigation system that can update the collected information through sensors to the Internet and can be accessed by farmers using a mobile application via smartphones. A solar-powered water pump is a water pump that uses energy generated by a solar panel, so it is cost-effective and environmental-friendly.



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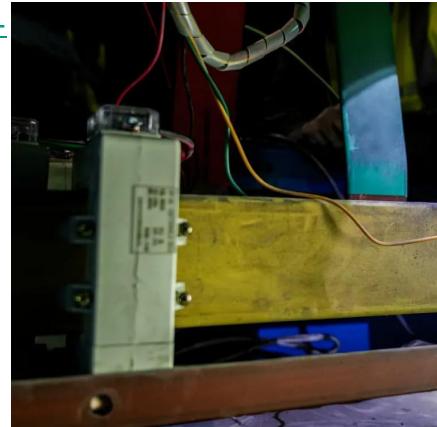
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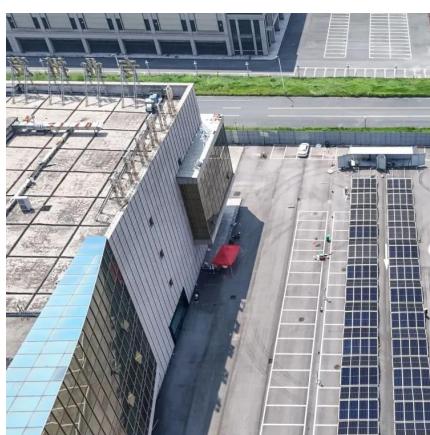
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