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High-efficiency photovoltaic containerized type for agricultural irrigation

Overview

Can solar photovoltaic-thermal irrigation be used in agricultural systems?

Author to whom correspondence should be addressed. This research focuses on developing an intelligent irrigation solution for agricultural systems utilising solar photovoltaic-thermal (PVT) energy applications. This solution integrates PVT applications, prediction, modelling and forecasting as well as plants' physiological characteristics.

Are solar-powered irrigation systems sustainable?

dernizationOverview of practiceSolar-powered irrigation systems (SPIS) are a clean technology option for irrigation, allowing the use solar energy for water pumping, replacing fossil fuels as energy source, and reducing greenhouse gas (GHG) emis ions from irrigated agriculture. The sustainability of SPIS greatly depends on.

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Solar-powered photovoltaic pumping systems (SPVPSs) have emerged as a promising solution for sustainable drip irrigation in agriculture. This review article presents recent advances in SPVPSs for drip irrigation, with a focus on their design, performance and integration.

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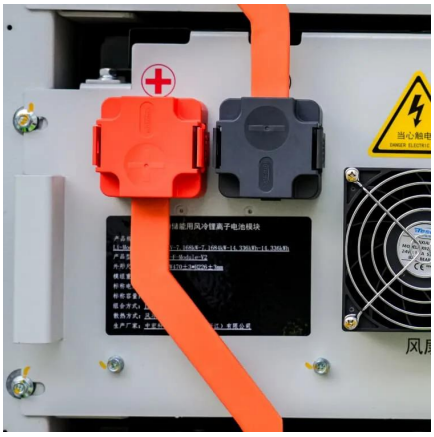

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