

Solar embedded water pump





Overview

What are embedded solar-powered water pumps (espwp)?

Embedded solar-powered water pumps (ESPWP), in this sense, are an alternative replacement for traditional irrigation practices. The systems convert renewable energy found in the sun into a freely available, nonpolluting source of power to enhance agricultural water management and reduce its costs.

What is a solar water pump?

The solar water pump is more compactable and lightweight. The luggage design makes this water pump portable, and the size is ergonomic and suitable for smallholder irrigation. The design of this portable solar water pump is inspired by wheeled travel luggage.

Does embedded solar-powered water pump efficiency affect the performance of a solar pump?

The efficiency of PV technology used in PV generator has also a great influence on the performance. Additionally, the degradation of PV panels is one of the important parameters that affect the performance of a solar pump. The study evaluates the embedded solar-powered water pump efficiency in the context of irrigation in rice fields.

How a portable solar water pump works?

The portable solar water pump was placed in the direction that sunlight incident directly on the solar panel. The solar water pump was connected and controlled by the application on the mobile phone. 3.6. System operational procedure



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