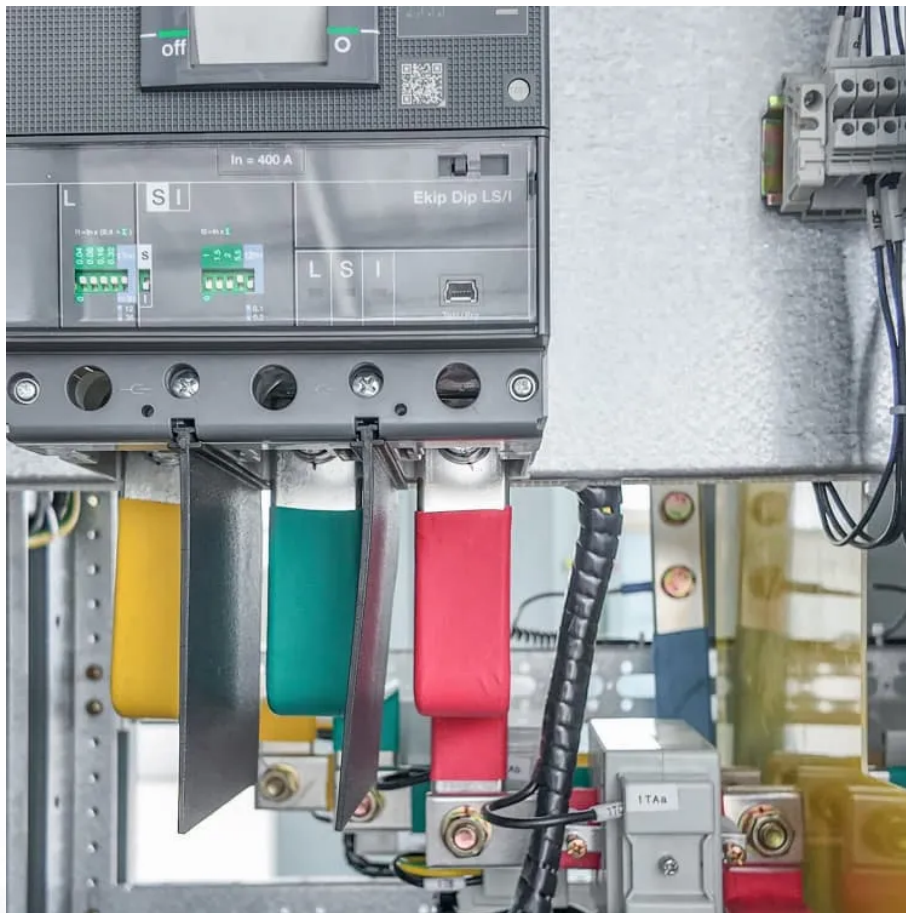


Ashgabat Zhuye Solar Water Pump





Overview

How does a solar water pump work?

This work focuses on the design; fabrication and testing of water pump system powered by a solar photovoltaic (P.V) panel. Two 12V, 17AH battery was incorporated in the pump system to ensure storage and stability of power discharged. The system pumped water at an average of 30L/min within the hours of 1pm to 4pm at an hour interval.

What is a solar pumping system?

Solar pumping system is an integration of different components which generates power from the sun and operates on direct current to drive water from a particular source over a distance to another location.

What is Solartech solar pumping system?

Solartech solar pumping system, using the infinite energy from the sun, provides a renewable energy solution based on cost-effectiveness advantages. It can be quickly constructed, without power infrastructure and energy storage battery device.

How efficient is a solar water pump?

The system pumped water at an average of 30L/min within the hours of 1pm to 4pm at an hour interval. The pump was operated at different heads ranging from 3m to 10m. The pump performed with an efficiency of 3.94% to 13.14%. The power consumption was fixed at 0.373kWh. The design and testing of the solar pump are presented in this work.



Ashgabat Zhuye Solar Water Pump



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