

Tskhinvali Electromechanical Solar Water Pump





Overview

What is solar photovoltaic water pumping system (spvwps)?

Introduction Solar Photovoltaic Water pumping system (SPVWPS) is an ideal alternative to the electricity and diesel based water pumping systems. It has been a promising field of research for last fifty years. In the 1970 decade, efforts were made to explore and study the economic feasibility, and practicality of SPVWPS.

What is PV water pumping system with fuzzy logic controller?

PV water-pumping system with fuzzy logic controller consists of 1 kWp solar panel, three numbers of boost converter, water pumps, and tanks is shown in Figure 13. FLC generates the reference speed to each pump by considering solar irradiation and water level of each tank.

What is a water pumping subsystem?

One of the water pumping subsystem consisted a multistage centrifugal pump, a three-phase inverter (DC/AC), and an AC engine (three-phase). The other water pumping subsystem consisted a positive displacement pump, an electronic controller (DC/DC), and a DC engine (brushless).

How does a solar photovoltaic water pump system work?

Solar photovoltaic water pumping system approach for electricity generation and produce. Pumping water from a lower tank to a higher tank stores energy as potential energy. Low- tank to the upper one using of f-peak electricity. power during peak demand. Reversible turbine/generators can pump or generate power.



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