

Micro Solar Powered Water Pump





Overview

What is a Micro solar water pump?

Micro Solar Water Pumps (MSWPs) are designed to provide smallholder farmers with affordable and sustainable irrigation solutions. These pumps typically have a capacity of 0.5 to 3 horsepower and are suitable for small plots of land. They harness solar energy to draw water, eliminating the need for costly diesel or electricity.

What is solar energy for water pumping?

Solar energy for water pumping is a promising alternative to conventional electricity and diesel-based pumping systems. The photo-voltaic (PV) technology used for solar water pumping is to convert solar energy into electrical energy. This electrical energy is used to operate the water pump connected with sprinkler for irrigation.

Can Micro solar water pumps help India's small farmers?

Micro solar water pumps can significantly reduce irrigation costs while supporting India's small farmers and aligning with 2025 green agriculture goals. The Indian government has reaffirmed its commitment to agriculture in the 2025-26 Union Budget, calling it the 'first engine of development'.

How solar PV technology is applied to water pumping systems?

Solar PV technology applied to water pumping systems is based on the conversion of solar energy into electrical energy by solar panels to power a water pump. PV panels are connected to a Direct Current (DC) or Alternating Current (AC) motor that Sprinkler connected with D.C water pump is used for irrigation purpose.



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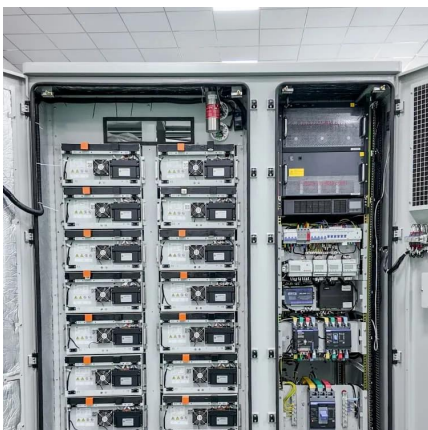
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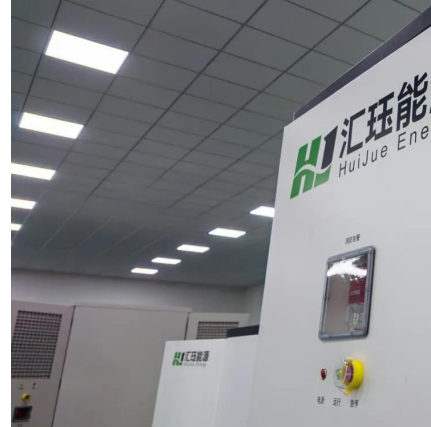
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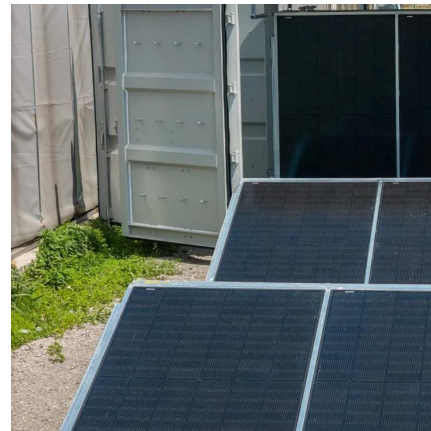


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