



BUHLE POWER

Samoa Solar Water Pumping System Recommendation





Overview

What does a solar water pump manufacturer/supplier do?

A solar water pump manufacturer/supplier will have tables or computer software which specify the flow from the solar water pumping system for various heads and solar irradiation. The “solar water pump designer” shall be capable of: Using the manufacturers data sheets or software to select the most appropriate solar water pumping system.

What is a solar water pump?

A solar water pump theoretically consists of three key components: a pump control system that may be just an on-off switch or may be a more complex electronic unit, a motor and the pump; however, in practice they are considered as one unit and generally called the “water pump” or in this guideline the “solar water pump”.

How to choose a solar water pumping system?

The type of solar water pumping system: borehole/well (submerged), floating or surface will depend on the water source. If the source is a borehole (proposed or existing) or deep well, then a submersible pump that fits the borehole or well should be selected. If the water source is a river, then a surface pump should usually be selected.

How much water does a solar water pump need per day?

The required daily volume of water required is: $45 \times 200 = 9000$ litres or 9 m^3 (2378 US gallons) This data is used by the designer to select a solar water pumping system that will provide this volume of water per day.



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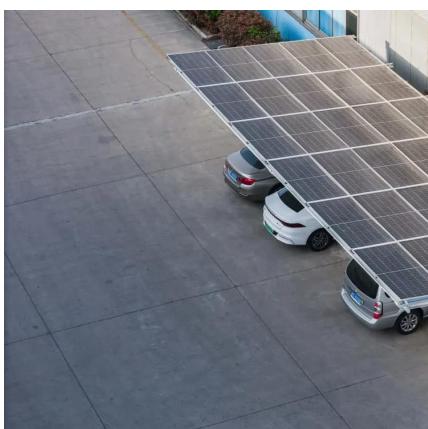
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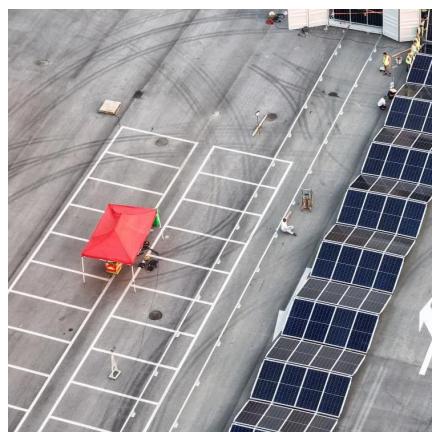


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[2. SOLAR WATER PUMPING SYSTEMS](#)

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