

# **Solar panel generates 21v electricity for 48v water pump**





## Overview

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What is a solar water pump system?

A solar water pump system typically consists of the following components:

**Solar Panels:** These convert sunlight into electricity. **Controller:** It regulates the power from the solar panels to the pump. **Pump:** This is the device that moves water from the source (well, river, or reservoir) to the desired location.

How much solar power does a water pump need?

First, you need to know the pump's power requirement, which is typically measured in watts (W). Divide the pump's wattage by the average peak sunlight hours your location receives daily. For example, if your pump requires 1500W and you get 5 sunlight hours per day, you would need at least a 300W solar panel.

How does a solar water pump work?

**Controller:** It regulates the power from the solar panels to the pump. **Pump:** This is the device that moves water from the source (well, river, or reservoir) to the desired location. There are two main types of solar water pumps: **Submersible Pumps:** These are used for deep water sources, such as wells, and are placed underwater.

Can solar power power a water pump?

The point is that connecting solar energy directly to a water pump shortens the life of the pump. If the pump's design is such that it needs AC voltage, then the pump will burn out quickly. Solar panels produce DC voltage and will burn out AC appliances in a matter of minutes. It gets worse too.



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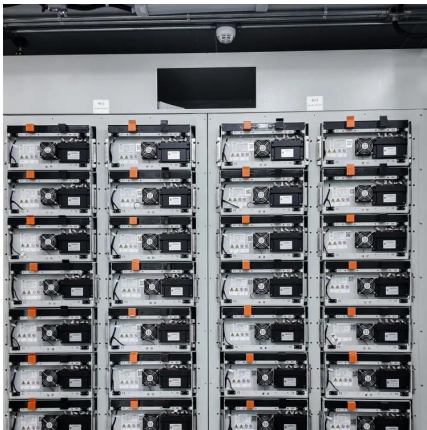
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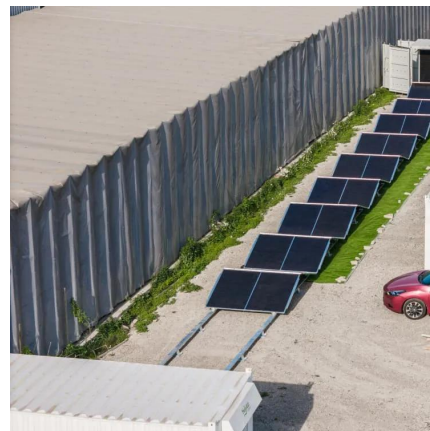


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