

## SolarInvert Energy Solutions

# Solar water pump or electric water pump



## Overview

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What is a solar water pumping system?

A solar water pumping system consists of a PV array, a motor, and a bore pump. Solar water pumping arrays can have permanent mounts, or installers may place them on passive trackers to increase pumping time and volume. Both AC and DC motors with centrifugal or displacement pumps are used in these circumstances.

What is the difference between a regular electric pump and solar water pump?

Today's question is, "What is the difference between a regular electric pump and a solar water pump?"

" So in the USA, your electric pump is either going to be running at 110 volts AC or 220 volts AC. If you have a smaller pump, usually one horsepower or less than it might be running off of 110 volts.

What is the horsepower of a solar water pump?

Solar water pumps typically have a horsepower of 2 or less. Well installed quality PV water pumping systems can provide over 20 years of reliable and continuous service. For more information, you can design a solar water pumping system using the Energy Matters on-line system builder.

What is the cost of a solar water pump?

Solar water pumps can cost as little as less than \$1,500 for the most inexpensive models, while large systems can cost over \$20,000. The cost can be reduced through Renewable Energy Certificates (RECs). Most solar water pumps rarely exceed 2 horsepower in size.

How does a solar powered pumping system work?

A solar powered pumping system consists of a solar panel array that powers an electric motor. This, in turn, powers a bore or surface pump. Prices for this

technology have dropped in recent years and can be further offset through Renewable Energy Certificates (RECs).

Why do we need a solar pump?

we're going to be more efficient. So that means for every watt we put into the system, it's going to pump slightly more water. That's very important that we're using a solar pump because we want to maximize the water produced based on the amount of sunlight available.

## Solar water pump or electric water pump

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### What is the difference between a regular electric pump and a solar

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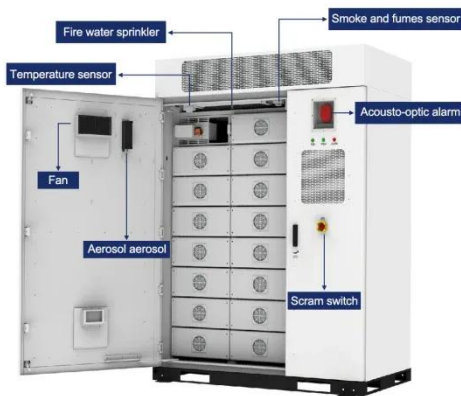
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For a solar pump, there's a couple of different power options. For smaller systems, they're going to run in the lower DC voltage range of anywhere from 24 up to 48 volts. When you get to ...

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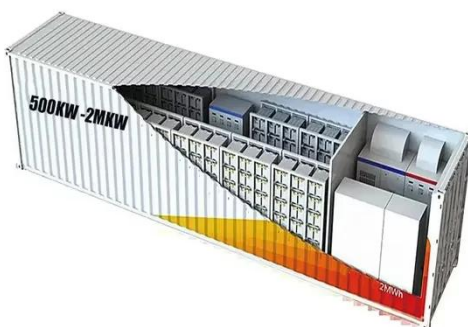
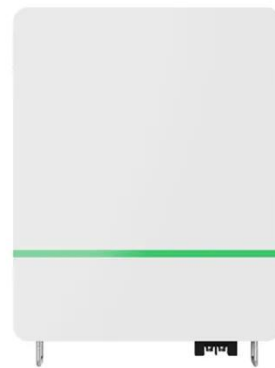


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