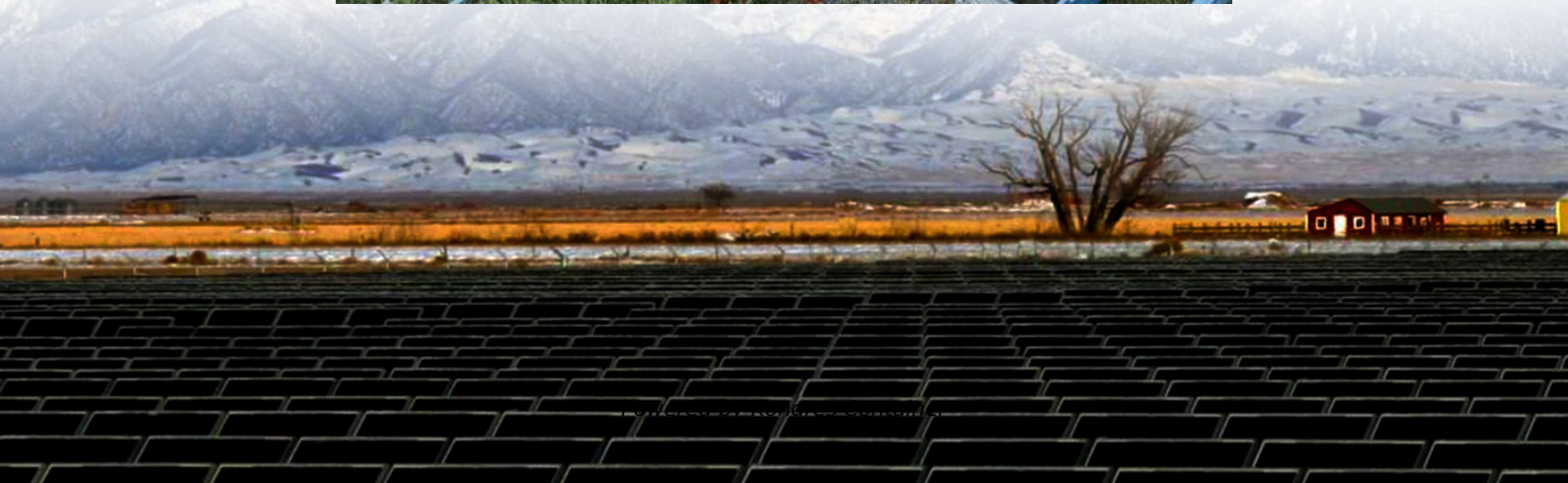


## Kongres Container

# Can solar power be installed back into the water pump inverter



## Overview

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Therefore, an additional inverter in the solar power system is required to convert the DC power from the solar panels into a three - phase 380V AC power supply that the water pump inverter can accept. Do I need a solar inverter for a submersible water pump?

Solar inverter is not required in this type of solar pump. 6200 – 38400 liters per day. 5 years warranty for complete solar system and 25 years for solar panel. A 1 HP AC submersible water pump needs AC power/electricity to function. We can't connect it with the solar panels directly as DC electricity cannot be used to power these water pumps.

How to choose a solar pump inverter?

Understand the rated power of the water pump. Normally, the rated power of the solar pump inverter should be slightly more than or equal to the rated power of the water pump to ensure that the pump can be operated normally. For instance, if the water pump's rated power is 2kW, the selected inverter should have a rated power of 2kW or higher.

Can a 1hp water pump be powered by a solar inverter?

A 1HP DC surface pump can directly be powered by solar panels. The solar panel converts the sun's energy into DC electricity, which in turn powers the pump and moves the water up to higher levels. This type of solar water pump does not require a solar inverter to convert DC generated by solar panels into AC electricity.

How does a solar pump inverter work?

The solar pump inverter converts the DC output by the solar array into AC and drives the water pump; in addition, it adjusts the output voltage and frequency according to the sunshine intensity in real time to realize maximum power point tracking and to maximize the use of solar energy.

Can a solar panel run a water pump?

A solar panel array can run a water pump — the DC electricity produced by the solar panel will power a DC water pump. The first system was introduced in the '70s — the technology is now widely used in remote areas with no grid connection. The ever-decreasing price of solar panels makes solar water pumping technology accessible.

How to choose a solar inverter?

Giant heads and larger flow water pumps usually require a higher-power solar inverter, which should be widely considered when choosing. Go with a brand and high-quality inverter to ensure efficiency, long lifespan, and guaranteed after-sale service. We recommend you choose Innotinum, a leading company for residential energy storage systems.

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