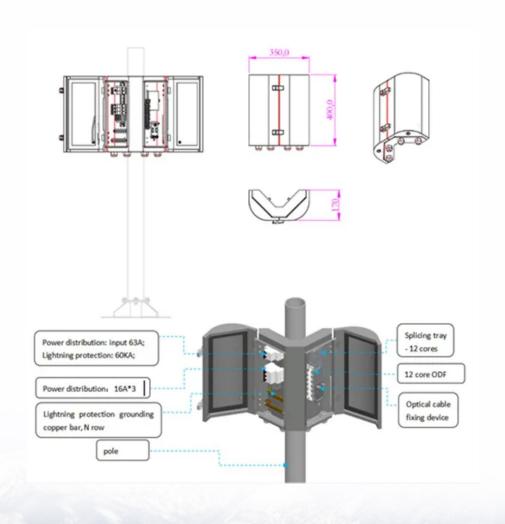


#### **SolarInvert Energy Solutions**

# Does the solar water pump need to work all the time





#### **Overview**

The long and short of it is, yes, solar pumps can run continuously, and under certain conditions can run 24/7. Does solar water pumping work?

Solar water pumping will perform well for domestic, industrial, and agricultural well pumping. Additionally, you may want to equip your system with a water cistern that has 2 to 3 days' worth of water in case of bad weather, which would reduce the global output of your system.

Can a solar water pump work without a power grid?

Since the sun provides the energy, an external power source isn't necessary, which means a solar-powered water pump will work in remote places and areas without access to a power grid. Solar-powered water pumps have very few mechanical parts, which lessens the chances of components needing repairs.

How long do solar pumps last?

If the water level shut-off is used to shut off the pump when the tank is full, hours of runtime are saved on the motor, extending pump life. We have customers who have run our solar pumps for more than 10 years without maintenance. Water quality and a proper installation are key factors in how long the pumps will last.

What is a solar water pump system?

These systems utilize renewable solar energy to pump water, making them an efficient, eco-friendly, and cost-effective solution for regions with unreliable electricity or high energy costs. Here's a detailed guide on how these systems work, the types available, and the benefits they provide.

Should you switch to solar water pumping for your swimming pool?

Let's see why you should switch to solar water pumping for your swimming pool: For a 10 meters long, 5 meters wide, and 1.5 meters deep swimming



pool (75 m3), it is recommended to have a pump capacity of 17m3/h. Usually, a regular AC water pump of 1.1Kw will do the job. On average, you need to filter the whole swimming pool every day.

Are solar pumping systems economically viable?

Most solar pump systems require low maintenance. Several case studies have proved that those systems are economically viable compared to diesel pumping and grid-tied water pumps. You might want to ask yourself the following questions to design the solar pumping system that will meet your needs and fit into your budget:



#### Does the solar water pump need to work all the time



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48V 100Ah

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