

## SolarTech Power Solutions

# 1 5kW Solar Water Pump Inverter



## Overview

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How does a solar pump inverter work?

Solar pump inverter converts solar power (DC power) into AC power to drive AC water pump directly without solar panel Full automatic operation, no need programming, user-friendly Maximum power point tracking (MPPT) efficiency reach 99% with advanced MPPT algorithm Built-in booster with lower solar operating voltage to reduce solar panels costs.

How does a 5kw solar inverter work?

They run their household off sixteen solar panels on the roof which provide 2kW of energy to 16 batteries beside the house. A 5kW inverter converts 48 volts direct charge (DC) to 240 volts. When the batteries are fully charged any excess electricity is dumped to a DC element in the hot water cylinder to heat water.

How to choose a solar pump inverter?

It is recommended that the MPPT range be (250V, 400V), and support AC and DC input. With IP20 protection class, solar pump inverters work in temperature (-10°C, 40°C). The solar pump inverter's humidity is less than 95%RH, widely applied in agricultural irrigation, seawater desalination, etc.

Why should you buy a 1.5kw pump inverter?

The 1.5kW pump inverter is expertly insulated, dust-proof, and moisture-proof, ensuring all users' stable, safe, and reliable operation. The robust casing protects internal circuits and electronic components, ensuring the inverter's safety, stability, and reliability, effectively extending the product life.

What voltage should a solar pumping inverter use?

The recommended MPPT (Maximum Power Point Tracking) voltage range for this 1.5kW three-phase solar pumping inverter is 250V to 400V. This range ensures the inverter operates at its optimal efficiency by continuously

adjusting to extract the maximum power from the connected solar panels.

What is a 3 phase solar pumping inverter?

The 1.5kW three-phase solar pumping inverter is ideal for small- and medium-scale irrigation and water supply needs. The solar vfd features advanced MPPT technology (250V-400V range), a high power factor of 0.99 for efficient energy use, and IP20 protection against dust and moisture.

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### Contact Us

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