

Water pump inverter variable frequency solar energy

Nominal Capacity

280Ah

Nominal Energy

50kW/100kWh

IP Grade

IP54



Overview

Solar pump inverter, also called solar variable frequency drive, converts the direct current of solar panel into alternating current, thereby driving various AC motor water pumps (centrifugal pump, irrigation pump, deep well water pump, swimming pool pump, etc).

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[Solar Pump Inverter vs. VFD: Key Differences & How to](#)

Solar pump inverters and VFDs serve distinct yet equally vital roles. The Solar Pump Inverter is the ideal solution for off-grid, agricultural, and rural water

[Why AI's water problem might actually be an opportunity](#)

Water stress is a global challenge, and the expanding AI economy is amplifying demand. Managing this pressure presents a meaningful opportunity to pursue sustainable solutions.



Variable Frequency Drives in the Solar Pumping

Solar PV (Photovoltaic) powered pumping has increased in popularity around the world thanks to the capabilities of variable frequency drives (VFDs). Typical

[Water Futures: Mobilizing Multi-Stakeholder Action for Resilience](#)

Access to freshwater is changing rapidly, with water stress affecting billions of people and countless businesses each year. Droughts and floods are becoming more frequent and severe,



[The water-energy nexus: why managing water stress is the key to the](#)



[2026 UN Water Conference: 4 priorities for global leaders](#)

Water is not only a victim of climate impacts but it is also a critical enabler for renewable energy, food security and industry. The 2026 UN Water Conference will be a pivotal implementation

Water, energy and the power mix Power-generation technologies have sharply different water profiles. Choices about the generation mix and where infrastructure is built shape how exposed



[Solar VFD vs solar inverter key differences and practical uses](#)

Compare solar VFD vs solar inverter: key differences, how each works, and which is best for motor control, water pumps, or general solar power needs.

[Ensuring sustainable water management for all by 2030](#)

More than 1,000 partners from the private sector, government and civil society are working together through the 2030 Water Resources Group. The group has facilitated close to \$1



Solar Pump Inverter vs. Variable Frequency Drive: 5

Discover the 5 essential differences between solar pump inverters and variable frequency drives. Learn which system improves efficiency, reduces

[Advanced Multistage Variable Frequency Control](#)

[in Photovoltaic](#)

The exigencies of effective irrigation and potable water supply in geographically isolated regions have catalyzed the proliferation of photovoltaic-powered water pumping installations.



Solar Water Pump Inverter

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How we tackle the energy, food and water nexus

How the Global Future Council on Energy Nexus is shaping integrated solutions to manage the energy, food and water nexus in a resource-constrained world.



[What is the Difference Between a Solar Pump Inverter](#)

If you need an off-grid water pump powered by renewable energy, go with a solar pump inverter. For grid-powered motor control, especially in

[Why water is the catalyst for the next wave of global growth](#)

With coherent policy, innovative finance and collaboration, water infrastructure can become a catalyst for sustainable growth and long-term resilience.



Best Solar Water Pump Inverters for



Solar pump inverter

Our full range of solar pumping inverters are converting the DC power from the solar panel to 3 phases AC power supply for pump operation. Independent of



[What will it take to grow investment in water infrastructure?](#)

Water is becoming an increasingly high priority globally - here's how leaders are redefining investment in water systems to drive resilience and growth.



[Japan's water infrastructure is being renewed.](#)

Efficient Off-Grid Power Solutions

Harnessing solar energy to power water pumps requires reliable and efficient inverters that convert solar DC power into usable AC power. Below is a curated selection of the best solar



[Food-water systems innovation in Asia and the Middle East](#)

Emerging economies incur a disproportionate impact on food-water systems yet are proving innovation can turn constraints into catalysts to meet demands.



All You Need to Know About VFD: Variable Frequency

Discover everything you need to know about solar pump inverters, including the Pridor VFD Inverter by Crown Solar Energy. Learn how these innovative

[Here's how](#)

Japan is reimagining water infrastructure with tech, transparency, and collaboration to boost resilience amid ageing systems and climate challenges.



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