

## **SolarInnovate Energy Solutions**

# **How much does a three-phase water pump inverter cost**



## Overview

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To provide a ballpark figure, the cost of a 3-phase solar pump inverter can range from US\$1,000 for a basic 1.5kW model to over US\$10,000 for a premium 15kW inverter. Here are some real-life examples: What is a 3 phase solar pump inverter?

The 3 phase solar pump inverter is widely used in agricultural irrigation, domestic water supply, livestock watering, aquaculture, emergency water supply, and desert reclamation. 5.5 kW solar pump inverter with affordable price, AC 13A output at 3-phase, MPPT tracking technology, and real-time detection of power voltage.

How do I choose a 3 phase 380V solar water pump inverter?

In selecting a 3-phase 380V solar water pump inverter, ranging from 0.37kW to 250kW, it's critical to understand both the key considerations for choosing an inverter and the diverse application scenarios where solar pump systems can be effectively utilized.

Does a 3 phase solar inverter cost more?

The short answer is no, but there are some reasons why you might want to include a 3-phase inverter which usually only cost around \$500 more. If you have a single phase solar inverter it can only be connected to one phase of power. Typically the appliances in a 3 phase home will be split across the 3 phases.

How much power does a 3 phase inverter draw?

If phase B draws 10kW then a system with three single phase inverters must draw power from the grid, while a three phase inverter 15kW inverter could tackle the entire 10kW if there was no usage on phases A & C. Compare quotes from up to 7 pre-vetted installers in your area now.

Should I use a 3 phase 380V water pump?

The recommendation to use 3 phase 380v pumps with power greater than 3kW with these inverters not only enhances the efficiency of solar panel use but also ensures that the system is capable of meeting the demands of most water pumping applications, from agricultural irrigation to industrial processes.

What is a 3 phase frequency inverter?

Three phase frequency inverter, also named as 3 phase variable frequency drive (VFD), is a motor control with 3 phase input and output that drives motor by changing the frequency and voltage supplied to the motor.

## How much does a three-phase water pump inverter cost



**Efficient  
Higher Revenue**



**Intelligent  
Simple O&M**



**Flexible  
Abundant Configuration**

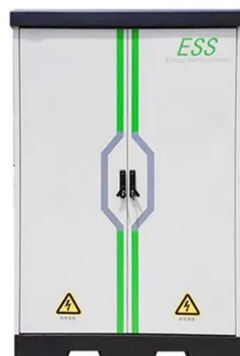
- Max. Efficiency 97.5%
- Max. PV Input Voltage 600V
- 150% Peak Output Power
- 2 MPP Trackers, 150% DC Input Overvoltage
- Max. PV Input Current 16A, Compatible with High Power Modules
- IP65 Protection Degree, support outdoor installation
- Smart I-V Curve Diagnosis Function: locate PV string faults accurately and automatically detect faults
- DC & AC Type II SPD: prevent lightning damage
- Battery Reverse Connection Protection
- Plug & Play, EPS Switching Under 10ms
- Compatible with Lead acid and Lithium Batteries
- Max. 6 Units Inverters Parallel
- AFCI Function (Optional): when an arc fault is detected the inverter immediately stops operation

### Jnn Haiyin AC Three Phase 380V Low Frequency Water Pump Inverter ...

Jun 5, 2025 · The NV560 series frequency inverter is a general-purpose high-performance current vector inverter, which is mainly used to control and adjust the speed and torque of three-phase ...

## Why Is a Solar Pump Inverter the Smart Core of Modern Water ...

Jul 25, 2025 · In an era where energy costs are rising and sustainable infrastructure is becoming essential, solar water pumping systems offer a reliable, cost-effective, and environmentally ...



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