

# Solar Pump Inverter VFD 220V/380V

The solar pump inverter VFD is designed for use with PV generators and pumps. It efficiently converts frequency and voltage, optimizing water storage without batteries by combining with elevated water storage solutions.



## ADDITIONAL IMAGES



## System Overview

### Solar Pumping System Solution

This solar pump inverter is designed to drive 3-phase AC pumps using solar energy without the need for storage batteries. By utilizing advanced Maximum Power Point Tracking (MPPT), the system adjusts output frequency in real-time based on sunlight intensity to maximize efficiency. It is compatible with various pump types, including centrifugal, axial flow, mixed flow, and deep well pumps, making it ideal for agricultural irrigation, livestock watering, and municipal water supply.

## Technical Specifications

### Compatible Pump Types

- Centrifugal pump
- Axial flow pump
- Mixed flow pump
- Deep well pump

Supported Input Voltages	220V, 380V
MPPT Technology	Yes
Battery Required	No

## Interface & Operation

### Control Panel Functions

- Run/Stop Control
- Frequency (Hz) Adjustment
- Program (PRG) Settings
- Jog Operation
- Forward/Reverse (F/R) Control

### Safety Warnings

Warning Type	Instruction
Terminal Connection	Do not connect AC power to terminals U, V, W
Maintenance	Power off for 10 minutes before opening cover

## Application Areas

### Common Applications

Agricultural Irrigation • Livestock Watering • Drinking Water Supply • Waste Water Treatment • Fountain Systems