

# 18.5kW Solar Pump Inverter, 3-Phase, 380V, IP65

This 18.5kW solar pump inverter converts direct current from photovoltaic cells into alternating current to power water pumps. Utilizing an MPPT algorithm, the inverter adjusts output frequency based on sunlight intensity to maximize solar energy use.



## ADDITIONAL IMAGES



## Overview

### Solar Pump Inverter Overview

This 18.5kW solar pump inverter is engineered for efficient water management in irrigation and drinking water systems. Utilizing an advanced MPPT algorithm, it optimizes solar energy conversion to drive three-phase water pumps reliably. The unit supports hybrid operation with utility grid integration, ensuring 24-hour water supply through automatic switching and solar priority control.

## Key Features

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- IP65 rated aluminum enclosure for outdoor durability
- Advanced dynamic MPPT function with >99% efficiency
- Hybrid energy support (Solar + Utility/DG)
- Remote monitoring via RS485 and GPRS
- Soft start/stop and automatic operation control
- Comprehensive system protection (overload, dry run, short circuit, etc.)

## Technical Specifications

Max. Input DC Voltage	880 Vdc
Recommended MPPT Voltage	460-850Vdc
Max. Input DC Current	41.1 A
Max. MPPT Efficiency	98 %
Number of Strings	3

## Performance

Max. Applicable Motor Output Power	18.5 kW
Rated Output Voltage	380-460Vac 3-phase
Output Frequency Range	0-50/60Hz

## Certifications & Ratings

Ingress Protection  
IP65