

75kW-132kW 3-Phase Solar Water Pump Inverter

This 3-phase solar water pump inverter drives pumps using solar energy, with power outputs ranging from 75kW to 132kW. It features dynamic MPPT functionality and automatic switching between solar and grid power.



ADDITIONAL IMAGES



Overview

High-Capacity Solar Pumping Solution

This 3-phase solar water pump inverter is engineered for large-scale agricultural irrigation and municipal water supply systems. It features advanced dynamic MPPT technology with over 99% efficiency and a hybrid design that allows for seamless integration with utility grids or diesel generators. Designed for reliability, it offers comprehensive system protection and fully automatic operation to ensure a consistent 24-hour water supply.

Performance Metrics

Key Performance Metrics

99 %

MPPT Efficiency

880 V

Max PV Input

132 kW

Max Output Power

Technical Specifications

Model Comparison

| Model | Output Power | Output Current |
|----------|--------------|----------------|
| JNP75KH | 75kW | 142A |
| JNP90KH | 90kW | 171A |
| JNP110KH | 110kW | 209A |
| JNP132KH | 132kW | 251A |

MPPT Voltage Range 460-850V

Output Voltage 380-460V, Three Phase

Features & Operation

Core Features

- Advanced dynamic MPPT function (>99% efficiency)
- Hybrid input support (Solar + Utility/Diesel Generator)
- Automatic energy switching and solar priority
- Soft start and soft stop control
- One-key start operation
- Advanced IGBT power module with integrated AC filter

Protection & Environment

IP Rating

IP21

System Protections

Undervoltage, Overload, Overvoltage, Overcurrent, Grid Phase Loss, Pump Dry Run, Short Circuit, Overheating

Operating Temperature

-25 to +50 (derating required above 50)

Connectivity & Interface

Communication Interfaces

RS485, GPRS, App Remote Monitoring

Display Interface

LCD

Compliance

The product is manufactured under strict quality, environmental, and occupational health and safety management systems.

Management Standards

ISO 9001 (Quality), ISO 14001 (Environmental), ISO 45001 (Health & Safety), TÜV Rheinland Certified