



**jntech**  
make the world greener

# Solar Pump Solution


Professional solar pump inverter and system provider


Applications


1.Solar agricultural irrigation, 2.Solar aeration system, 3.Solar water treatment system, 4.Desert control, 5.Pasture animal husbandry, 6.Scenic fountains and more

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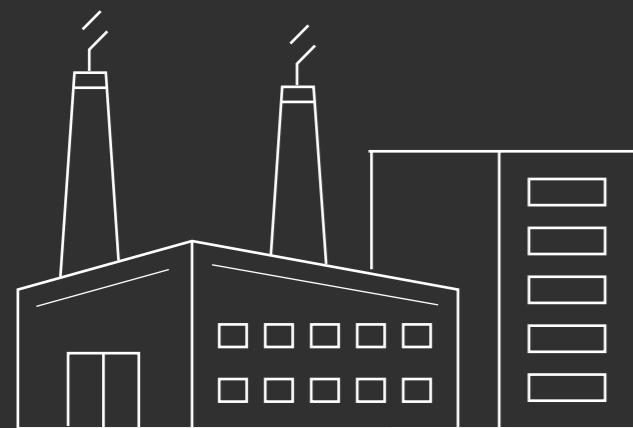


# ABOUT JNTECH

JNTECH is a global leader in advanced micro-grid solutions, committed to providing reliable and sustainable energy systems that address the unique challenges of diverse regions worldwide. Since our founding in 2006, we have focused on providing stable, affordable, and sustainable power through green energy for more people. To achieve this, we have developed a diverse portfolio of solutions that can adapt to different markets and needs. Currently, our products are sold in over 100 countries and regions.

As a leading manufacturer and provider of solar and new energy products, JNTECH specializes in innovative technologies to meet a wide range of energy requirements. Our solutions include home energy storage systems, solar water pumping systems, solar oil extraction systems, solar mining systems, solar irrigation systems, electric vehicle charging systems, and other micro-grid solutions. These solutions incorporate both our proprietary products and those from other providers, ensuring comprehensive support for agriculture, remote power, and carbon footprint reduction.

With extensive experience and technical expertise in photovoltaic micro-grid projects, JNTECH has established strong partnerships with organizations such as the World Bank, United Nations, IBRD, FAO, and various NGOs. These collaborations underscore our commitment to advancing sustainable energy solutions on a global scale. We believe that the widespread adoption of clean energy will enhance convenience and development opportunities for communities worldwide.



## Qualifications and Honors

- ▶ National Standard Drafter
- ▶ United Nation Global Marketplace Supplier
- ▶ Specialized and New Enterprise
- ▶ National High-Tech Enterprise
- ▶ National Innovative SME
- ▶ Anhui Province Specialized in Special New Enterprises
- ▶ CE, TUV, ISO9001, ISO14001, and OHSAS18001 Certifications

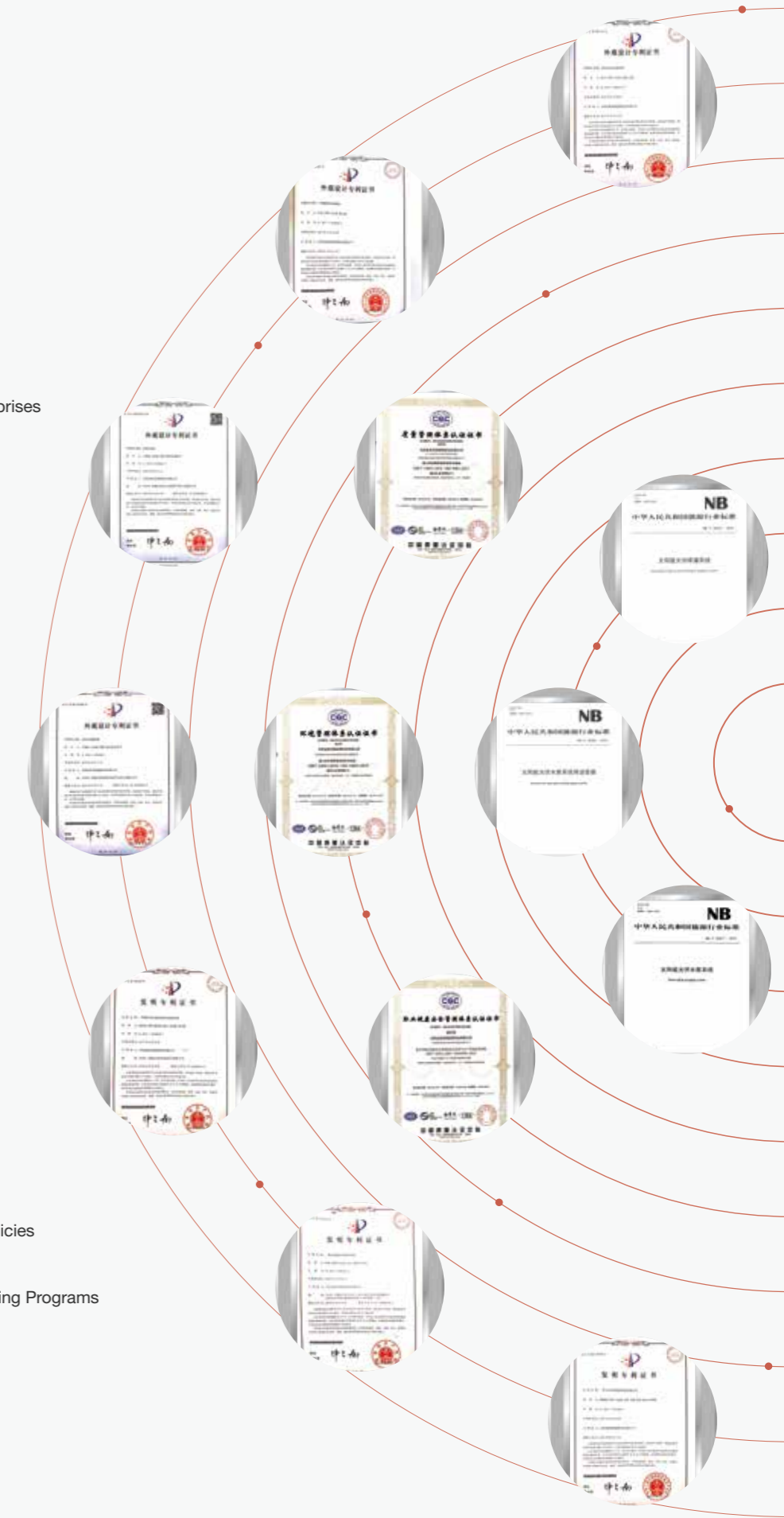
## Service

### Pre-sales

- ▶ Investment Consultation
- ▶ Site Selection Assistance
- ▶ Customized Design Solutions
- ▶ Site Construction Support
- ▶ Operations and Maintenance Planning

### After-sales

- ▶ Standardization of Workflow, Operations, and Policies
- ▶ Technical Services, Marketing Support, and Training Programs
- ▶ Collaborative Platform for Technical Exchanges
- ▶ Creating Value through Win-Win Cooperation
- ▶ 24/7 Online Support and Service





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**GLOBAL SALES NETWORK**

**15+**

Years of Experience in Solar Industry

**40%+**

R&D Employees

**100+**

Countries and Regions

**10,000+**

Global Clients

**1,000,000+**

Products Sold



## SOLAR PUMPING SYSTEM

Photovoltaic intelligent irrigation system is composed of photovoltaic power generation system, photovoltaic variable frequency drive system, pump, head, filtration and water storage system, pressure and flow detection, solenoid valve and main branch pipe and other systems, fully driven by new energy, through photovoltaic direct drive technology, energy management technology and detection and control technology, combined with irrigation technology, The combination of photovoltaic power generation, automatic control and irrigation technology can be widely used in sprinkler irrigation and dropper systems in plains, hills and mountains, and the integrated green irrigation system of photovoltaic + irrigation is realized.

**System Characteristics**

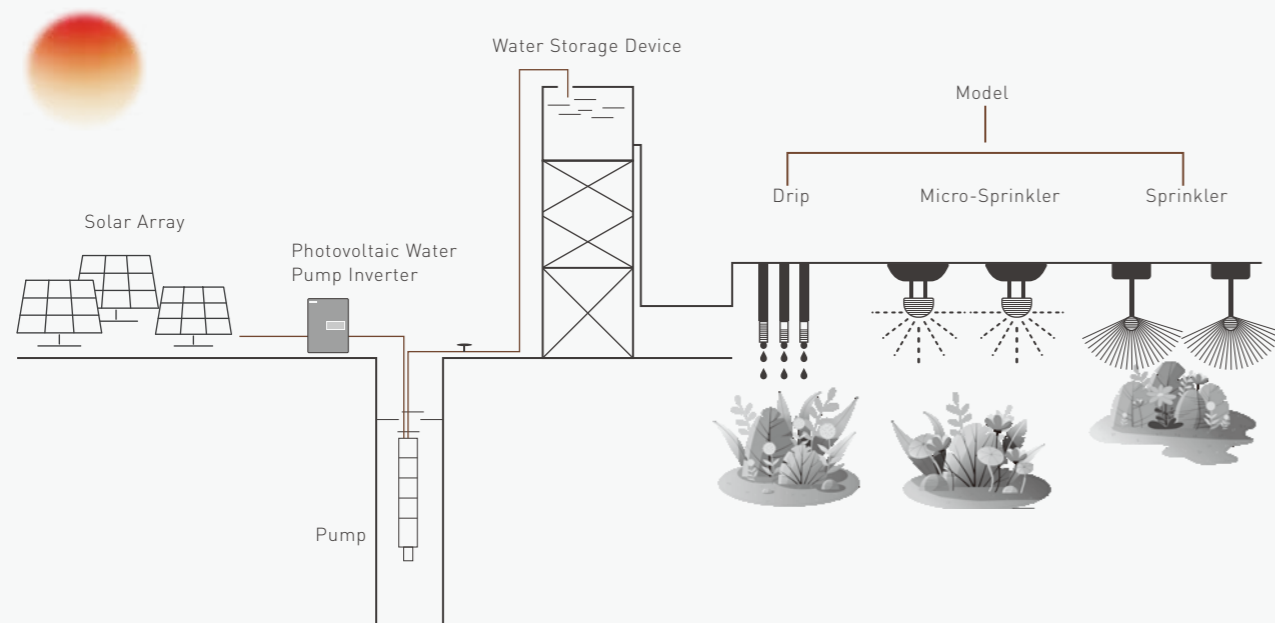
- IP65 outdoor protection class
- We will address issues such as agricultural irrigation, daily water use, and desert management in areas without electricity or water shortages
- GPRS remote monitoring real-time operating status, real-time start and stop
- Compared with diesel generators, it has long life, high efficiency and short investment payback period
- Operating temperature range :-25°C~+60°C
- Widely used in all kinds of solar panel and AC pumps(three-phase, single-phase)
- Excellent performance, suitable for cloudy weather
- Fully automatic operation, with perfect protection function

**System Application**

The solar pump system is mainly used in various projects in areas with lack of water and electricity

- Agricultural irrigation
- Forestry irrigation
- Desertification control
- Scenic fountain
- Water for pasture animal husbandry
- Water supply in rural towns and villages
- Seawater treatment
- ... ..

**System Application Running Diagram**



**Application Scenario**

**In the Desert**

It adopts low-lying terrain to collect and store water (anti-seepage), photovoltaic water lifting, Field irrigation area management, drip irrigation and micro-sprinkler irrigation and other methods.



**In the Hills**

It adopts the methods of rainwater collection and storage, photovoltaic water lifting, distributed water storage on the top of the mountain, field irrigation area management, drip irrigation and micro-sprinkler irrigation.

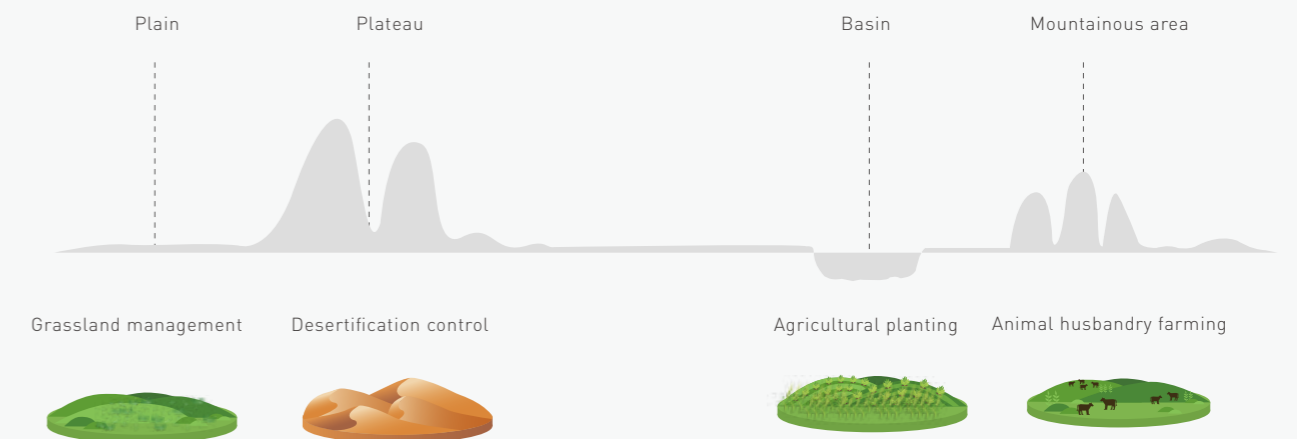


**In the Plain**

It adopts pond and ditch water storage, photovoltaic water lifting, field irrigation area management, drip irrigation and sprinkler irrigation.



**Application Scenario Diagram**





# SOLAR PIVOT SPRINKLER IRRIGATION SYSTEM

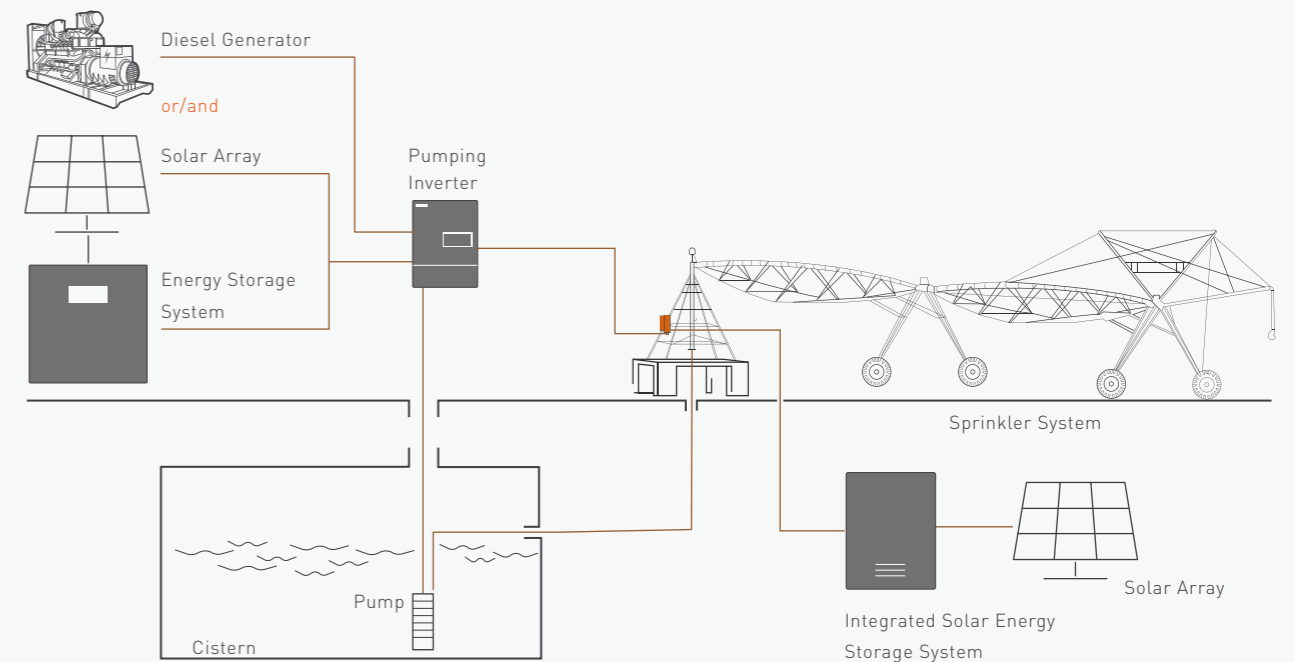
Combining new energy application technology with large-scale spray irrigation system technology can effectively replace traditional diesel power generation systems. This integration enables fully automated operations and addresses the requirements of desert management, grassland restoration, and similar projects.

The system facilitates energy-efficient ecological management in remote and off-grid areas, meeting the needs of desert control, barren land management, and desert road maintenance.

## Features:

- Touch screen human-machine interface (HMI) enables monitoring of the inverter's status and parameters, as well as setting its priority starting level.
- DC busbar design allows multiple solar pump inverters to maximize daily water output while enhancing overall system efficiency and solar energy utilization.
- Automatic operation.
- Multi-stage water supply, storage, and distribution solutions.
- Solar pump output adjusts with solar energy availability, with customizable pump output priorities.
- Versatile application scenarios with expandable functions, allowing for upgrades based on specific needs and high compatibility.

## System Application Running Diagram





## Intelligent Software

### Software Features

This software is designed to meet the monitoring and control needs of the photovoltaic smart irrigation industry, including the monitoring of power generation equipment, water pumps, solenoid valves, etc. It enables device data visualization and statistical analysis, allowing customers to instantly access information on equipment status, water flow, power generation efficiency, and other key parameters. It provides real-time monitoring of the irrigation system, while intelligently controlling parameters such as pipeline pressure, flow, and valve status within the photovoltaic smart irrigation system, thereby helping customers optimize equipment performance for maximum efficiency.

### PC

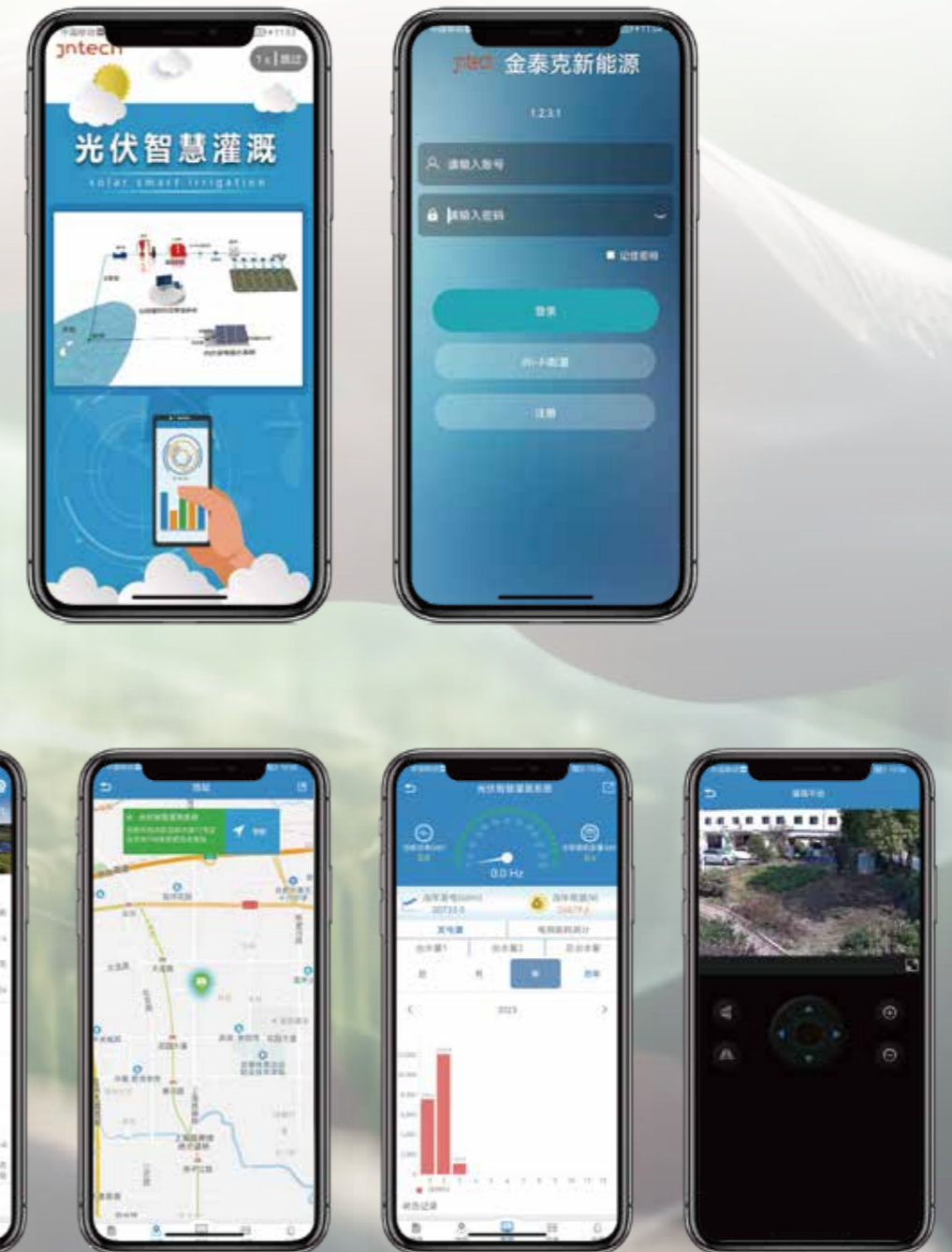


System Information

Installation Location

Video Surveillance

### APP



System Information

Installation Location

Data Visualization

Video Surveillance



# PRODUCTS AND SPECIFICATIONS



## SOLAR PUMP INVERTER



Hybrid Solar Pump Inverter  
0.55kW-4kW/  
2.2kW-7.5kW



Hybrid Solar Pump Inverter  
11kW-18.5kW



Hybrid Solar Pump Inverter  
22kW-55kW



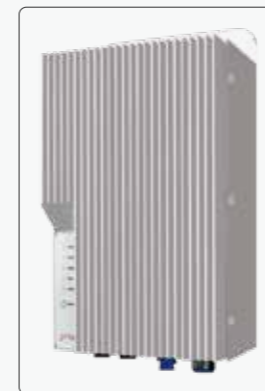
Solar Pump Inverter  
75kW-132kW



Hybrid Solar Pump Inverter(V4)  
75kW-132kW



Hybrid Solar Pump Inverter  
160kW-400kW



Hybrid Solar Pump Inverter  
370W-550W

# Hybrid Solar Pump Inverter

## 0.55kW-4kW



### Features:

- Drives power-matched single/three-phase AC pump
- Advanced IGBT power module
- High conversion efficiency, low temperature rise, low noise, long lifespan
- Advanced MPPT technology, 99%+ efficiency
- Fully automatic operation; operational data can be stored for 10 years
- Robust system protection, high reliability
- Newly redesigned anodized aluminum case
- LCD display
- RS485/GPRS interface
- Modular design; easy to install, operate and maintain
- Utility grid/DG or photovoltaic input, automatic switching with PV priority, complementary energy usage to keep the pump running and achieve 24-hour water supply.

MODEL	JNP550L -V5	JNP750L -V5	JNP1K1L -V5	JNP1K5L -V5	JNP2K2L -SE-V5	JNP2K2L -V5	JNP3KL -V5	JNP3K7L -V5	JNP4KL -V5
<b>PV Input</b>									
Max. Input Voltage	450V					480V			
Recommended MPPT Voltage	80-400V	105-400V	130-400V	150-400V	150-400V	200-450V	200-450V	200-450V	200-450V
Max. input Current	15A	15A	15A	15A	20A	15A	30A	30A	30A
Max. MPPT Efficiency	>99%								
Number of String	1								
<b>A.c. Input</b>									
Voltage	198-265Vac, 1PH								
Frequency	50Hz/60Hz (±3%)								
<b>A.c. Output</b>									
Max. Motor Output Power	0.55kW	0.75kW	1.1kW	1.5kW	2.2kW(3PH)/ 1.5kW(1PH)	2.2kW	3kW(3PH)/ 2.2kW(1PH)	3.7kW(3PH)/ 2.2kW(1PH)	4kW(3PH)/ 2.2kW(1PH)
Rated Output Voltage	220/230Vac (1PH or 3PH)								
Output Frequency Range	0-50/60Hz								
Max. Output Current(1PH/3PH)	5A/2.5A	6A/3.5A	9A/5.5A	11A/7A	13A/11A	15A/11A	16A/14A	17A/17A	18A/20A
<b>System</b>									
Protection Level	IP65								
Operating Temperature	-25~+60 C								
Cooling Way	Nature cooling								
Display	LED/LCD								
Communication	RS485,GPRS/Bluetooth(without LCD) optional								
Altitude	3000m,above 3000m need derate operating								
Noise Emission	<50dB								
Compliance	EN 50178; IEC/EN 62109-1;IEC61800								
Dimension(W/D/Hmm)	265/150/330 mm								
Weight(kg)	6.5 kg								



# Hybrid Solar Pump Inverter

## 2.2kW~7.5kW



### Features:

- Strong Overload Capacity: Capable of driving three-phase AC water pumps with equivalent power.
- Maximum Power Point Tracking (MPPT) Technology: Efficiency greater than 99%.
- Wide MPPT Input Voltage Range: 460VDC to 850 VDC, ensuring optimal performance under varying conditions.
- Fanless Design & Outdoor Model: IP65 protection rating, making it suitable for harsh outdoor environments.
- Wide Operating Temperature Range: From -25°C to 60°C, with derating above 60°C to ensure reliable operation.
- RS485 & GPRS Communication: Remote monitoring and management via mobile app for easy control of system start/stop.
- Dual Input from Grid and PV: Automatic switching between grid and solar power, with priority given to solar energy, enabling 24-hour water supply with online energy complement.
- Comprehensive System Protection: Includes protections against undervoltage, overload, overvoltage, overcurrent, grid failure, dry-run protection for water pumps, phase loss, short circuit, and overheating.
- Fully Automated Operation: Soft start and stop features for smooth operation, requiring no manual intervention.

MODEL	JNP2K2H-V5	JNP3KH-V5	JNP3K7H-V5	JNP4KH-V5	JNP5K5H-V5	JNP7K5H-V5
<b>PV Input</b>						
D.C. Max. Input Voltage	880V					
Recommended MPPT Voltage	460-850V					
D.C. Max. input Current	15A	15A	15A	15A	30A	30A
Max. MPPT Efficiency	>99%					
Number of String	1					
<b>A.c. Input</b>						
Voltage	360-460Vac, 3PH					
Frequency	50Hz/60Hz (±3%)					
<b>A.c. Output</b>						
Max. Motor Output Power	2.2kW	3kW	3.7kW	4kW	5.5kW	7.5kW
Rated Output Voltage	380-460Vac (3PH)					
Output Frequency Range	0-50/60Hz					
Rated Output Current	6A	7A	9A	10A	13A	18A
<b>System</b>						
Protection Level	IP65					
Operating Temperature	-25~+60 C					
Cooling Way	Nature cooling					
Display	LED/LCD					
Communication	RS485,GPRS/Bluetooth					
Altitude	3000m,above 3000m need derate operating					
Noise Emission	<50dB					
Compliance	EN 50178; IEC/EN 62109-1;IEC61800					
Dimension(W/D/Hmm)	265/150/330 mm					
Weight(kg)	6.5 kg					

# Hybrid Solar Pump Inverter

## 11kW~18.5kW



### Features:

- Strong Overload Capability: Capable of driving three-phase AC water pumps with equivalent power.
- Maximum Power Point Tracking (MPPT) Technology: Efficiency greater than 99%.
- Wide MPPT Input Voltage Range: 460VDC to 850 VDC, ensuring optimal performance across varying conditions.
- Outdoor Model with IP65 Protection: Built to withstand harsh environmental conditions, suitable for outdoor installations.
- Operating Temperature Range: -25°C to 60°C; power derating above 60°C for enhanced safety and longevity.
- RS485 and GPRS Communication: Allows remote monitoring and control via mobile app, enabling efficient operation management and system status updates.
- Dual Input from Grid and PV: Automatic switching between grid and solar input, with energy complementing in real-time; solar priority mode ensures 24-hour water pumping with full load.
- Comprehensive System Protection: Features include under-voltage, overload, over-voltage, over-current, grid phase loss, dry-running protection, phase loss, short circuit, and overheat protection.
- Fully Automatic Operation Control: Soft start and soft shutdown functions for seamless, unattended operation.

MODEL	JNP11KH-V5	JNP15KH-V5	JNP18K5H-V5
<b>PV Input</b>			
D.C. Max. Input Voltage	880V		
Recommended MPPT Voltage	460-850V		
D.C. Max. input Current	45A		
Max. MPPT Efficiency	>99%		
Number of String	1		
<b>A.c. Input</b>			
Voltage	360-460Vac, 3PH		
Frequency	50Hz/60Hz (±3%)		
<b>A.c. Output</b>			
Max. Motor Output Power	11kW	15kW	18.5kW
Rated Output Voltage	380-460Vac(3PH)		
Output Frequency Range	0-50/60Hz		
Rated Output Current	21A	29A	36A
<b>System</b>			
Protection Level	IP65		
Operating Temperature	-25~+60 °C		
Cooling Way	Force cooling		
Display	LCD		
Communication	RS485,GPRS		
Altitude	3000m,above 3000m need derate operating		
Noise Emission	<50dB		
Compliance	EN 50178; IEC/EN 62109-1;IEC61800		
Dimension(W/D/Hmm)	265/173/518.5 mm		
Weight(kg)	17.5 kg		



# Hybrid Solar Pump Inverter

## 22kW~55kW



### Features:

- Strong Overload Capability: Capable of driving three-phase AC water pumps with equivalent power.
- Maximum Power Point Tracking (MPPT) Technology: Efficiency greater than 99%.
- Wide MPPT Input Voltage Range: 460VDC to 850 VDC, ensuring optimal performance across varying conditions.
- Outdoor Model with IP65 Protection: Built to withstand harsh environmental conditions, suitable for outdoor installations.
- Operating Temperature Range: -25°C to 60°C; power derating above 60°C for enhanced safety and longevity.
- RS485 and GPRS Communication: Allows remote monitoring and control via mobile app, enabling efficient operation management and system status updates.
- Dual Input from Grid and PV: Automatic switching between grid and solar input, with energy complementing in real-time; solar priority mode ensures 24-hour water pumping with full load.
- Comprehensive System Protection: Features include under-voltage, overload, over-voltage, over-current, grid phase loss, dry-running protection, phase loss, short circuit, and overheat protection.
- Fully Automatic Operation Control: Soft start and soft shutdown functions for seamless, unattended operation.

MODEL	JNP22KH-V5	JNP30KH-V5	JNP37KH-V5	JNP45KH-V5	JNP55KH-V5
<b>PV Input</b>					
D.C. Max. Input Voltage	880V				
Recommended MPPT Voltage	460-850V				
D.C. Max. input Current	45A	67A	82A	100A	122A
Max. MPPT Efficiency	>99%				
Number of String	1				
<b>A.c. Input</b>					
Voltage	360-460Vac, 3PH				
Frequency	50Hz/60Hz (±3%)				
<b>A.c. Output</b>					
Max. Motor Output Power	22kW	30kW	37kW	45kW	55kW
Rated Output Voltage	380-460Vac (3PH)				
Output Frequency Range	0-50/60Hz				
Rated Output Current	42A	57A	71A	86A	104A
<b>System</b>					
Protection Level	IP65				
Operating Temperature	-25~+60 C				
Cooling Way	Force cooling				
Display	LED/LCD				
Communication	RS485,GPRS				
Altitude	3000m,above 3000m need derate operating				
Noise Emission	<50dB				
Compliance	EN 50178; IEC/EN 62109-1;IEC61800				
Dimension(W/D/Hmm)	460/260/715 mm				
Weight(kg)	35 kg				

# Solar Pump Inverter

## 75kW~132kW



### Features:

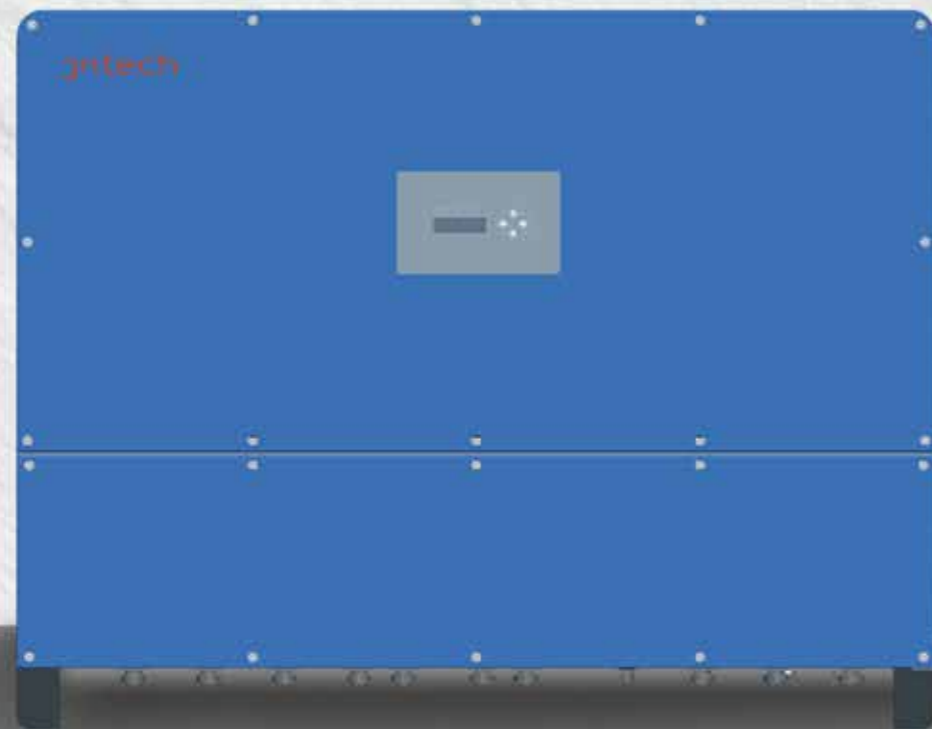
- Strong Overload Capability: Capable of driving three-phase AC water pumps with equivalent power.
- Maximum Power Point Tracking (MPPT) Technology: Efficiency greater than 99%.
- Wide MPPT Input Voltage Range: 460VDC to 850 VDC, ensuring optimal performance across varying conditions.
- Outdoor Model with IP65 Protection: Built to withstand harsh environmental conditions, suitable for outdoor installations.
- Operating Temperature Range: -25°C to 60°C; power derating above 60°C for enhanced safety and longevity.
- RS485 and GPRS Communication: Allows remote monitoring and control via mobile app, enabling efficient operation management and system status updates.
- Dual Input from Grid and PV: Automatic switching between grid and solar input, with energy complementing in real-time; solar priority mode ensures 24-hour water pumping with full load.
- Comprehensive System Protection: Features include under-voltage, overload, over-voltage, over-current, grid phase loss, dry-running protection, phase loss, short circuit, and overheat protection.
- Fully Automatic Operation Control: Soft start and soft shutdown functions for seamless, unattended operation.

MODEL	JNP75KH-V3	JNP90KH-V3	JNP110KH-V3	JNP132KH-V3
<b>PV Input</b>				
D.C. Max. Input Voltage	880V			
Recommended MPPT Voltage	460-850V			
D.C. Max. input Current	166A	205A	251A	287A
Max. MPPT Efficiency	>99%			
Number of String	2			
<b>A.c. Output</b>				
Max. Motor Output Power	75kW	90kW	110kW	132kW
Rated Output Voltage	380-460Vac (3PH)			
Output Frequency Range	0-50/60Hz			
Rated Output Current	142A	171A	209A	251A
<b>System</b>				
Protection Level	IP65			
Operating Temperature	-25~+50 C , above50 C need derate operating			
Cooling Way	Force cooling			
Display	LCD			
Communication	RS485,GPRS			
Altitude	3000m,above 3000m need derate operating			
Noise Emission	<70dB			
Compliance	EN 50178; IEC/EN 62109-1;IEC61800			
Dimension(W/D/Hmm)	630/300/800 mm			
Weight(kg)	68 kg			



# Hybrid Solar Pump Inverter(V4)

## 75kW~132kW



### Features:

- Strong Overload Capability: Capable of driving three-phase AC water pumps with equivalent power.
- Maximum Power Point Tracking (MPPT) Technology: Efficiency greater than 99%.
- Wide MPPT Input Voltage Range: 460VDC to 850 VDC, ensuring optimal performance across varying conditions.
- Outdoor Model with IP65 Protection: Built to withstand harsh environmental conditions, suitable for outdoor installations.
- Operating Temperature Range: -25°C to 60°C; power derating above 60°C for enhanced safety and longevity.
- RS485 and GPRS Communication: Allows remote monitoring and control via mobile app, enabling efficient operation management and system status updates.
- Dual Input from Grid and PV: Automatic switching between grid and solar input, with energy complementing in real-time; solar priority mode ensures 24-hour water pumping with full load.
- Comprehensive System Protection: Features include under-voltage, overload, over-voltage, over-current, grid phase loss, dry-running protection, phase loss, short circuit, and overheat protection.
- Fully Automatic Operation Control: Soft start and soft shutdown functions for seamless, unattended operation.

MODEL	JNP75KH-V4	JNP90KH-V4	JNP110KH-V4	JNP132KH-V4
<b>PV Input</b>				
D.C. Max. Input Voltage	880V			
Recommended MPPT Voltage	460-850V			
D.C. Max. input Current	166A	205A	251A	287A
Max. MPPT Efficiency	>99%			
Number of String	2			
<b>Mains/Diesel Engine Input</b>				
Voltage	360-460Vac (3PH)			
Frequency	50Hz/60Hz			
<b>A.c. Output</b>				
Max. Motor Output Power	75kW	90kW	110kW	132kW
Rated Output Voltage	380-460Vac (3PH)			
Output Frequency Range	0-50/60Hz			
Rated Output Current	142A	171A	209A	251A
<b>System</b>				
Protection Level	IP65			
Operating Temperature	-25~+50 C			
Cooling Way	Force cooling			
Display	LED+LCD			
Communication	RS485,GPRS			
Altitude	3000m,above 3000m need derate operating			
Noise Emission	<70dB			
Compliance	EN 50178; IEC/EN 62109-1;IEC61800			
Dimension(W/D/Hmm)	1050/820/300 mm			
Weight(kg)	98 kg			

# Hybrid Solar Pump Inverter

## 160kW~400kW



### Features:

- **Strong Overload Capability:** Capable of driving three-phase AC water pumps with equivalent power.
- **Maximum Power Point Tracking (MPPT) Technology:** Efficiency greater than 99%.
- **Wide MPPT Input Voltage Range:** 460VDC to 850 VDC, ensuring optimal performance across varying conditions.
- **Outdoor Model with IP65 Protection:** Built to withstand harsh environmental conditions, suitable for outdoor installations.
- **Operating Temperature Range:** -25°C to 60°C; power derating above 60°C for enhanced safety and longevity.
- **RS485 and GPRS Communication:** Allows remote monitoring and control via mobile app, enabling efficient operation management and system status updates.
- **Dual Input from Grid and PV:** Automatic switching between grid and solar input, with energy complementing in real-time; solar priority mode ensures 24-hour water pumping with full load.
- **Comprehensive System Protection:** Features include under-voltage, overload, over-voltage, over-current, grid phase loss, dry-running protection, phase loss, short circuit, and overheat protection.
- **Fully Automatic Operation Control:** Soft start and soft shutdown functions for seamless, unattended operation.

MODEL	JNP160 KH-V1	JNP185 KH-V1	JNP200 KH-V1	JNP220 KH-V1	JNP250 KH-V1	JNP280 KH-V1	JNP315 KH-V1	JNP350 KH-V1	JNP400 KH-V1
<b>PV Input</b>									
D.C. Max. Input Voltage	880V								
Recommended MPPT Voltage	460-850V								
D.C. Max. input Current	355A	412A	445A	490A	556A	622A	700A	778A	889A
Max. MPPT Efficiency	>99%								
Number of String	1								
<b>A.c. Input</b>									
Voltage	360-460Vac (3PH)								
Frequency	50Hz/60Hz (±3%)								
<b>A.c. Output</b>									
Max. Motor Output Power	160kW	185kW	200kW	220kW	250kW	280kW	315kW	350kW	400kW
Rated Output Voltage	380-460Vac (3PH)								
Output Frequency Range	0-50/60Hz								
Max. Output Current	320A	370A	400A	440A	500A	520A	630A	700A	800A
<b>System</b>									
Protection Level	IP41								
Operating Temperature	-25~+50°C, above 50°C need derate operating								
Cooling Way	Force cooling								
Display	LED/LCD/Touch Screen								
Communication	RS485,GPRS								
Altitude	3000m, above 3000m need derate operating								
Noise Emission	<70dB								
Compliance	EN 50178; IEC/EN 62109-1; IEC61800								
Dimension(W/D/Hmm)	1140/1470/720 mm								
Weight(kg)	450 kg								



# Hybrid Solar Pump Inverter

## 370W~550W



### Features:

- **Strong Overload Capability:** Capable of driving both single-phase and three-phase AC water pumps of the same power rating.
- **Maximum Power Point Tracking (MPPT) Technology:** Efficiency greater than 99%, ensuring optimal energy conversion.
- **Wide MPPT Input Voltage Range:** Supports a broad range of input voltages for flexible system configuration.
- **Fanless Design, Outdoor Model with IP65 Protection Rating:** Built to withstand harsh outdoor environments with no need for a fan and excellent protection against dust and water ingress.
- **Operating Temperature Range:** Capable of operating in temperatures from -25°C to 60°C, with derated performance above 60°C to ensure system longevity and stability.
- **Comprehensive System Protection:** Features protections against undervoltage, overload, overvoltage, overcurrent, dry running, short circuits, and overheating, ensuring reliable and safe operation.
- **Fully Automated Operation:** Provides automatic control with soft start and soft stop functionality, enabling unmanned operation and minimal maintenance.

MODEL	JNP370L	JNP370LS	JNP550L	JNP550LS
<b>PV Input</b>				
D.C. Max. Input Voltage	110V	110V	160V	160V
Recommended MPPT Voltage	55-110V	55-110V	80-160V	80-160V
D.C. Max. input Current	12A	12A	10A	10A
Max. MPPT Efficiency	>99%			
Number of String	1			
<b>A.c. Output</b>				
Max. Motor Output Power	370W	370W	550W	550W
Rated Output Voltage	220-230Vac (3PH)	220-230Vac (1PH)	220-230Vac (3PH)	220-230Vac (1PH)
Output Frequency Range	0-50/60Hz			
Rated Output Current	2A	2A	3A	3A
<b>System</b>				
Protection Level	IP65			
Operating Temperature	-25~+60 °C			
Cooling Way	Natural cooling			
Display	LED			
Communication	RS485,GPRS			
Altitude	3000m,above 3000m need derate operating			
Noise Emission	<40dB			
Compliance	EN 50178; IEC/EN 62109-1;IEC61800			
Dimension(W/D/Hmm)	200/80/300 mm			
Weight(kg)	3.4 kg			

# ACCESSORIES



## PV Combiner Box:

The JNTech PV combiner box is used for solar pump systems from 22kW to 132kW, minimizing the number of connecting cables for easy maintenance while ensuring safety and reliability.

The combiner box has over-current, overcurrent, and overvoltage functions as well as lightning protection. Custom designs are available.

### Main parameters:

- Max.input voltage: 1000V DC
- Max.input current: 10A
- Protection class: IP65
- Operating temperature:-25~+55°C
- 8/12/16/24 inputs available



## Water Level Sensor:

In some complex, high-lift, long-distance water conveyance and irrigation systems, our clients had a need to collect and record water pressure, flow, and location information. We designed a device to obtain water level information from the pump system, enhancing the stability and safety of the overall system.

### Features:

- Remote wireless communication based on RTU; no communication cost; stable and reliable;
- Independent photovoltaic power supply with minimal wiring requirements;
- Stable communication over distances of up to 5km/3miles;
- Plug-and-play RS485 communication.



## Outlet Filter:

The outlet filter is connected between solar pump inverter and pump. It is used once the cable between the inverter and the pump is too long.

### Main parameters:

- AC Max. input voltage: 700Vdc
- Max.input current:22A、 44A、 125A
- Protection class:IP65
- Frequencyrange:0-60Hz



## AC Power Pack:

The AC power pack provides AC input to the solar pump inverter to keep the system working 24 hours a day.

### Main parameters:

- Input voltage: 360~460Vdc (3PH)
- Max.input current: 16.3A, 41.1A,83A,122A DC
- Protection class: IP21 (JNPH4AR)/IP65 (JNPH1AR, JNPH2AR, JNPH 3 AR, JNPH3AR-S)
- Operating temp.: -20~+60°C

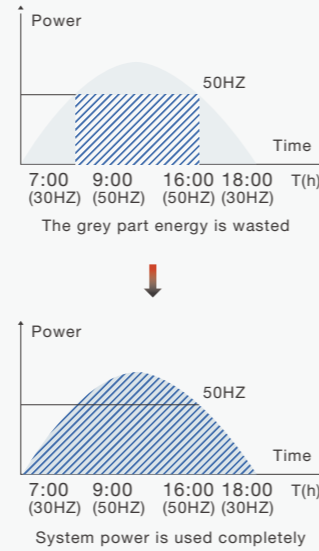
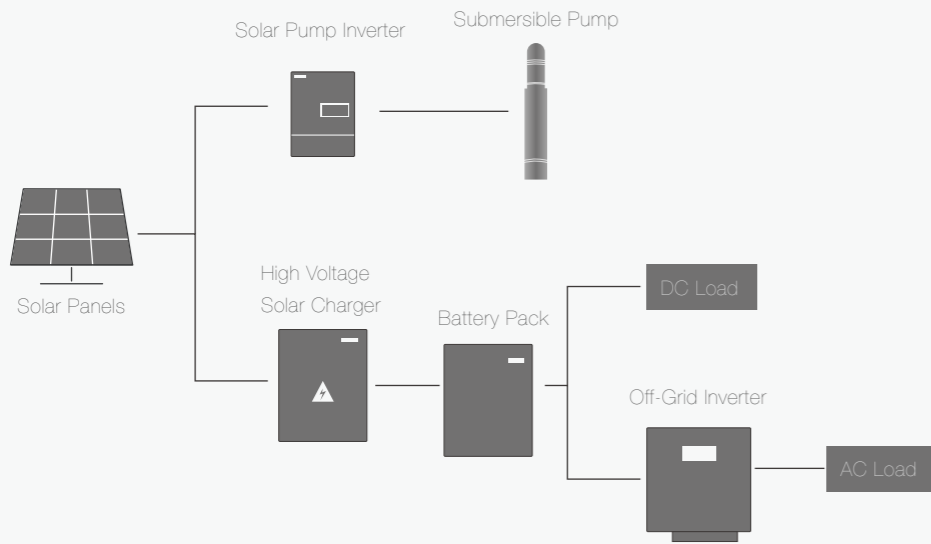




### High-Voltage Solar Charger

**Features:**

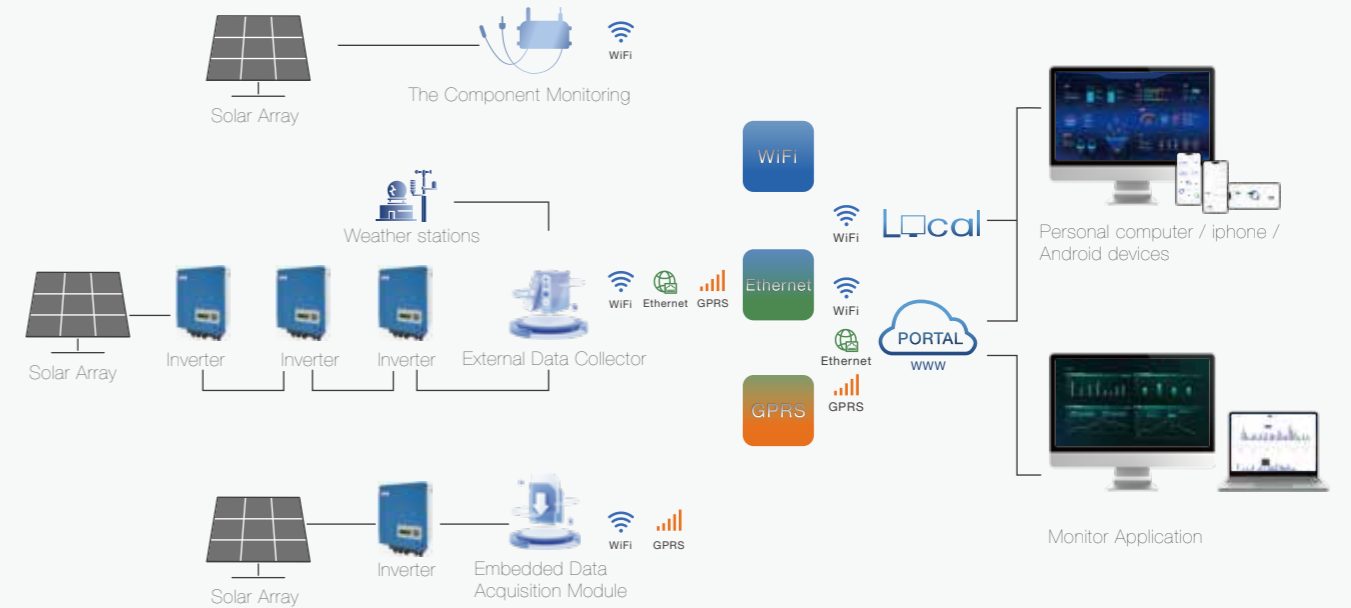
- The solar pump system can be used as an independent off-grid generating system.
- Full-system energy application is possible with solar pump system and solar charger.
- Wide high-voltage input range and higher reliability with isolated design.
- Supports 12V DC/24V DC/48V DC with 15A /25A/40A batteries.
- Excellent battery charging management with overvoltage and current protection functions.
- Integrated switch, wall-mounted installation and easy operation.



### Monitoring System

**Features:**

- Control the solar pump inverter remotely
- Manage all solar pump inverters and systems
- Check system operating status at any time
- Read all system information on laptop, iPhone or other electronic devices
- View alarm records and diagnose error codes
- Analyse data to ensure system is in good working condition

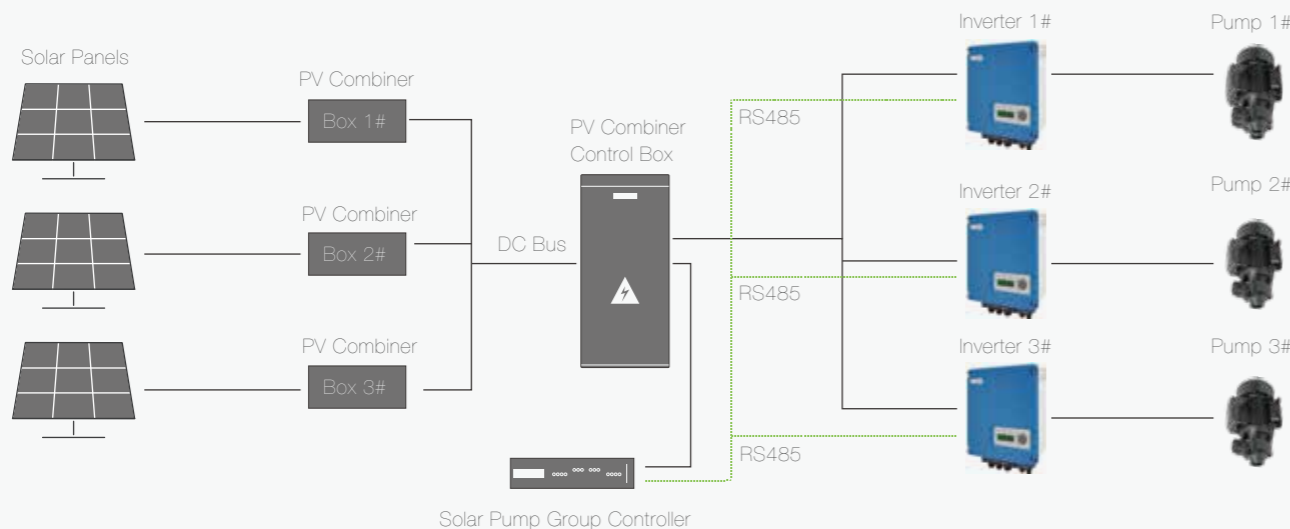


### Solar Pump Group Controller:

Suitable for solar pump projects with high flow rates, high head, multi-stage water lifting, and parallel multi-pipeline installations. Also ideal for large-scale pointer-type solar sprinkler irrigation systems and solar drip irrigation systems.

**Functions:**

- Real-time energy scheduling to significantly decrease PV module cost.
- Provides for stable system operation for lifting head over 1000m.
- Efficiency is 20% higher than traditional individual systems.



# PROJECTS



Sets, Solar Pump System, A United Nations Development Programme Project in Sudan

Location: Darfur, Sudan



55kW Solar Pump System

Location: Mahrah Governorate, Yemen



4kW Solar Projects

Location: Philippines



1.2MW Solar Pump System at Baihetan Dam

Location: Yunnan, China

System Configurations:

1.Solar Panels: 1200kWp

2.Inverter: 132kW\*4,63kW\*4





1.144MWp Solar Pumping System

Location: Zimbabwe, Africa  
 System Configurations:  
 Solar Panels: 550W\*2080 pieces



37kW Solar Pump System in Pakistan

Location: Multan, Pakistan



Xuanwei Solar Pump System for agriculture - Largest Solar Pump System in Asia

Location: Yunnan, China



22kW Solar & Utility Grid Hybrid Solar Pump System in Pakistan

Location: Gilgit Baltistan Province  
 System Configuration:  
 Solar panels: 6 strings, each string 20pcs



Solar Irrigation Projects - Yishala

Location: Sichuan, China  
 System Configuration:  
 400kW, 200kW and 37kW Solar Pump Inverter, 550W\*2252 Solar Panels



7.5kW Solar Pump System in Turkey

Location: Turkey





45kW Solar Pump System

Location: Uzbekistan



45kW Solar Pump System

Location: Uzbekistan



11kW Solar Pump System

Location: Thailand



# PARTNERS

