

# PRODUCTS AND SPECIFICATIONS



## SOLAR PUMP INVERTER



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



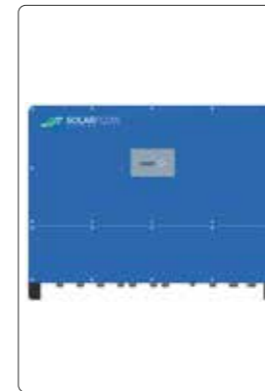
Hybrid Solar Pump Inverter  
11kW-18.5kW



Hybrid Solar Pump Inverter  
22kW-55kW



Solar Pump Inverter  
75kW-132kW



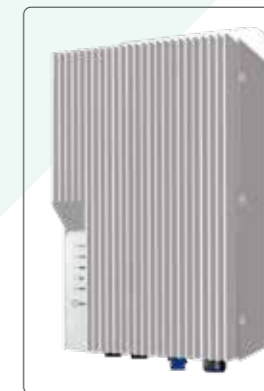
Hybrid Solar Pump Inverter(V4)  
75kW-132kW



Hybrid Solar Pump Inverter  
160kW-200kW



Hybrid Solar Pump Inverter  
220kW-500kW



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/H mm)	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/H mm)	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/H mm)	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/H mm)	460/260/715 mm				
Weight(kg)	35 kg				

# Solar Pump Inverter

## 75kW~132kW



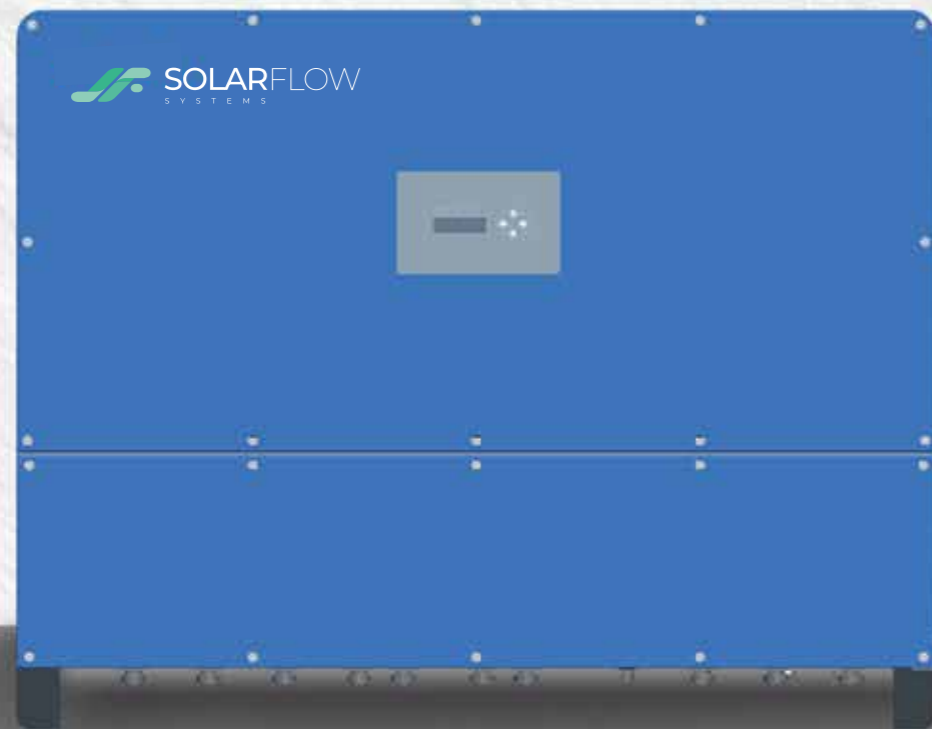
### Features:

- **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/H mm)	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/H mm)	1050/300 /820 mm			
Weight(kg)	98 kg			

# Hybrid Solar Pump Inverter

## 160kW~500kW



### 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 IP55 Protection: Built to withstand harsh environmental conditions, suitable for outdoor installations.
- Operating Temperature Range: -25°C to 50°C; power derating above 50°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	JNP450 KH-V1	JNP500 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	793A	793A	793A
Max. MPPT Efficiency	>99%										
Number of String	1										
<b>A.c. Input</b>											
Voltage	360-460Vac (3PH)										456-506Vac (3PH)
Frequency	50Hz/60Hz										
<b>A.c. Output</b>											
Max. Motor Output Power	160kW	185kW	200kW	220kW	250kW	280kW	315kW	350kW	400kW	450kW	500kW
Rated Output Voltage	380-460Vac (3PH)										415-460Vac (3PH)
Output Frequency Range	0-50/60Hz										
Max. Output Current	270A	312A	337A	371A	400A	472A	531A	590A	675A	683A	695A
<b>System</b>											
Protection Level	IP55										
Operating Temperature	-25~+50 C ,above 50 C need derate operating										
Cooling Way	Forced air 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/H mm)	800/720/1630 mm				1270/780/1900 mm						
Weight(kg)	268 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/H mm)	200/80/300 mm			
Weight(kg)	3.4 kg			