

# SUN SPD Series

## Solar Inverter with MPPT for Water Pump

750W-2200W

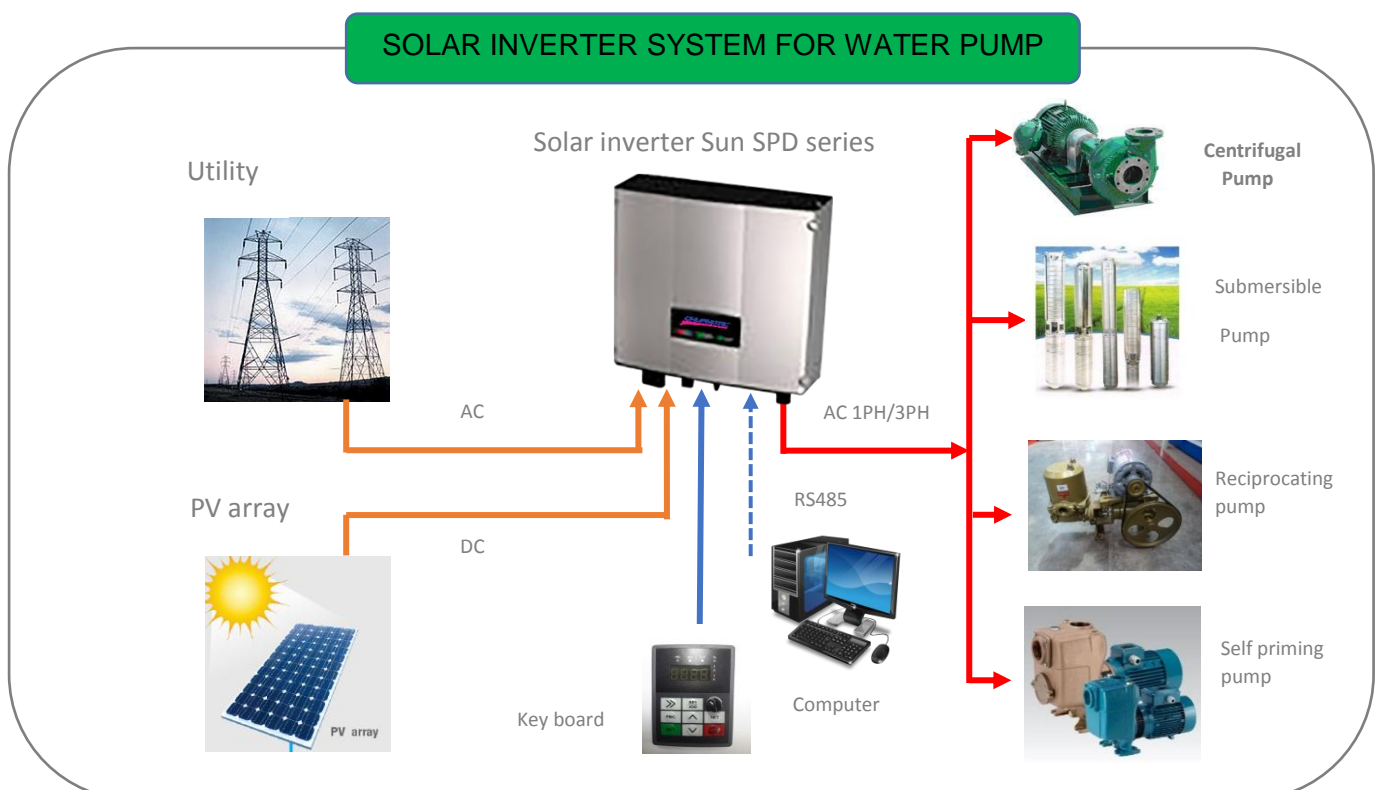


### Description

SPDXKXTN series solar water-pump inverter adopts the dynamic VI MPPT technology and motor control technology, and is suitable for AC water pumps with prompt response, high efficiency and stable performance.

### Features

- Support direct driving single-phase motor (don't tear down Start Capacitor) and three-phase 220V motor.
- One pump inverter can work with mutiple motors, support vector control.
- Protection class IP65 and fanless system design, with convenient installation, maintenance free.
- With a bypass function, support 220V Utility Power input and diesel engine input; optional water level detection module and diesel engine start/stop module.
- Low start voltage and wide input voltage range give more possibilities for accepting multi PV strings configuration and different type of PV module.
- Digital intelligent control, Flexible adjusting and setting pump's speed range. In addition to soft start function also can provide lightning protection, overvoltage, over current, overload protection function etc.



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## Specification

Model	SPD0K7TN	SPD1K5TN	SPD2K2TN	SPD0K7TNAC	SND1K5TNAC	SPD2K2TNAC
<b>Input (DC)</b>						
Max DC Voltage (V)	300	450	450	300	450	450
Starting Voltage(V)	80	100	100	80	100	100
Minimum working voltage(V)	60	80	80	60	80	80
MPPT Operating Voltage Range (V)	80-250	120-400	120-400	80-250	120-400	120-400
Number of MPPT/String	Single:MC4					
Max. DC Current(A)	9	12	12	9	12	12
<b>Bypass input (AC)</b>						
Input voltage (VAC)	No			220/230/240(1PH)-15%+10%		
Input frequency (Hz)	No			47-63		
Input connect (AC)	No			1P2L		
<b>Output(AC)</b>						
Rated power(W)	750	1500	2200	750	1500	2200
Rated current(A)	5.1(1PH)	10(1PH)	14(1PH)	5.1(1PH)	10.2(1PH)	14(1PH)
	4.2(3PH)	7.5(3PH)	10(3PH)	4.2(3PH)	7.5(3PH)	10(3PH)
Output voltage (VAC)	0-Input Voltage					
Output connect(AC)	1P2L/3P3L					
Output frequency (Hz)	1-400					
<b>Performance</b>						
Control mode	Motor control technology					
Type of motor	Asynchronous machine					
<b>Other Parameter</b>						
Dimension(HxWxD mm)	280x300x130					
Weight (kg)	≤10.5					
Protection	IP65					
Cooling	Natural Cooling					
HMI	LED screen extend (not support LCD screen)					
<b>Communication</b>						
External communication	RS485/Single Digital Input/Analog Input (0-10V)					
<b>Standard</b>						
Certificated	CE ; IEC61800-3 C3					
<b>Working environment</b>						
Temperature	(-25°C~60°C More than 45 °C derating)					
Humidity	0-95%(Non condensing)					
Working altitude	3000m (more than 2000m derating)					
Design life	5 years (warranty 18 months)					
<b>Recommended solar array configuration</b>						
250Wp(Open-circuit voltage 38V±3V)	4*1	8*1	11*1	4*1	8*1	11*1
300Wp(Open-circuit voltage 45V±3V)	3*1	6*1	9*1	3*1	6*1	9*1

\*All specification subject to change without notice.

Chuphotic.BRO. INV.16 SPD Rev.1.00/2015

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