

## **Description:**

BPD 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**

- IP65 designed for outdoor solar pumping system.
- With optimized high-tech motor control algorithm.
- Support AC & PV input together, AC bypass function.
- Support single-phase & 3 phase 220V pump.
- Built-in booster module, reduce PV panel cost.
- With full and empty water level control logic.
- Easy installation (quick connector).
- Natural Cooling, maintenance-free design.
- Integrate multiple protection functions to extend service life.



ACT witness Lab certified by TÜV SÜD









## **Specification**

	BPD0K7TNAC	BPD1K5TNAC	BPD2K2TNAC	BPD4K0TNAC	
Input (DC)					
Max DC Voltage (V)	450	450			
Starting voltage (V)	80	100			
Minimum working voltage (V)	60	80			
MPPT Operating Voltage Range (V)	80-400	100-400			
Number of MPPT		1			
Max. DC Current(A)	9	12	12	20	
Bypass input (AC)					
Input voltage (VAC)	220/230/240(1PH)-15%+10%				
Input frequency (Hz)		47-63			
Input connect method (AC)	1P2L				
Output(AC)					
Rated power(W)	750	1500	2200	4000	
Rated current(A)	5.1 (1PH)	10.2 (1PH)	14 (1PH)	25 (1PH)	
	4.2 (3PH)	7.5 (3PH)	10 (3PH)	17 (3PH)	
Output connect method	1P2L/3P3L				
Output frequency (Hz)		1-400			
Performance					
Control mode	Motor control technology				
Type of motor	Asynchronous machine				
Other Parameter					
Dimension (H x W x D mm)	255×300×138	280×300×138	280×300×138	420×360×160	
Weight (kg)	6.4	7 12			
Protection	IP65				
Cooling	Natural Cooling				
HMI	LED screen extend ( not support LCD screen )				
Communication					
External communication	RS485/3 digital Inputs				
Certifications					
Certification	CE; IEC61800-3 C3				
Working environment					
Ambient temperature	(-25°C $\sim$ 60°C More than 45 °C derating)				
Working altitude	3000m ( more than 2000m derating )				
Warranty	18 months				
Recommended solar array configurat	ion				
250Wp (Open-circuit voltage 38V±3V)	4*1	8*1	11*1	11*2	
300Wp (Open-circuit voltage 45V±3V)	3*1	6*1	9*1	9*2	

