



## Description:

BPD series solar water-pump inverter adopts the dynamic VIMPT 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



INVT Official Website

# Specification

	BPD0K7TNAC	BPD1K5TNAC	BPD2K2TNAC	BPD4K0TNAC
<b>Input (DC)</b>				
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

<b>Bypass input (AC)</b>				
Input voltage (VAC)	220/230/240(1PH)-15%+10%			
Input frequency (Hz)	47-63			
Input connect method (AC)	1P2L			

<b>Output(AC)</b>				
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			

<b>Performance</b>				
Control mode	Motor control technology			
Type of motor	Asynchronous machine			

<b>Other Parameter</b>				
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)			

<b>Communication</b>				
External communication	RS485/3 digital Inputs			

<b>Certifications</b>				
Certification	CE ; IEC61800-3 C3			

<b>Working environment</b>				
Ambient temperature	(-25℃~60℃ More than 45℃ derating)			
Working altitude	3000m (more than 2000m derating)			
Warranty	18 months			

<b>Recommended solar array configuration</b>				
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