

# Solar Pumping Inverters



## Description:

BPDXKXTN 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 multiple motors.
- 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.
- Support 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.



ACT witness Lab certified by TÜV SÜD



INVT Official Website

# Specification

	BPD0K7TN	BPD1K5TN	BPD2K2TN	BPD0K7TNAC	BPD1K5TNAC	BPD2K2TNAC
<b>Input (DC)</b>						
Max DC Voltage (V)	450	450	450	450	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)	80-400	100-400	100-400	80-400	100-400	100-400
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 method (AC)	NO		1P2L			
<b>Output(AC)</b>						
Rated power(W)	750	1500	2200	750	1500	2200
Rated current(A)	5.1 ( 1PH )	10.2 ( 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 method	1P2L/2P3L/3P3L					
Output frequency (Hz)	1-400					
<b>Performance</b>						
Control mode	V/F					
Type of motor	Asynchronous motor					
<b>Other Parameter</b>						
Dimension (H x W x D mm)	255x300x137	280x300x137	280x300x137	255x300x137	280x300x137	280x300x137
Weight (kg)	6.4	7	7	6.4	7	7
Protection	IP65					
Cooling	Natural Cooling					
HMI	External LED keypad					
<b>Communication</b>						
External communication	RS485 / 3 Digital Input					
<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	4*1	8*1	11*1
300Wp ( Open-circuit voltage 45V ± 3V )	3*1	6*1	9*1	3*1	6*1	9*1