

Solar Pumping Inverters



Description:

BPDXXTN 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, 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.



ACT witness Lab certified by TÜV SÜD



INVT Official Website

Specification

	BPD0K7TN	BPD1K5TN	BPD2K2TN	BPD0K7TNAC	BPD1K5TNAC	BPD2K2TNAC
Input (DC)						
Max DC Voltage (V)	300	450		300	450	
Starting voltage (V)	80	100		80	100	
Minimum working voltage (V)	60	80		60	80	
MPPT Operating Voltage Range (V)	80-250	120-400		80-250	120-400	
Number of MPPT/String	Single :MC4					
Max. DC Current(A)	9	12	12	9	12	12
Bypass input (AC)						
Input voltage (VAC)	NO			220/230/240(1PH)-15%+10%		
Input frequency (Hz)	NO			47-63		
Input connect method (AC)	NO			1P2L		
Output(AC)						
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 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)	280x300x130					
Weight (kg)	≤10.5					
Protection	IP65					
Cooling	Natural Cooling					
HMI	LED screen extend (not support LCD screen)					
communication						
external communication	RS485/Single Digital Input/Analog Input (0-10V)					
Certifications						
Certification	CE : IEC61800-3 C3					
Working environment						
Ambient temperature	(-25℃ ~ 60℃ More than 45 ℃ derating)					
Working altitude	3000m (more than 2000m derating)					
Design life	5 years (warranty 18 months)					
Recommended solar array configuration						
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