Solar Pumping Inverters

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

INVT Official Website

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℃ ~ 60℃ More than 45 ℃ derating)			
Working altitude	3000m (more than 2000m derating)			
Warranty	18 months			
Recommended solar array configuration				
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