

# Novi Solar

## Pumping Inverters



### Description:

Novi 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



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SERENUM



### Specification

	Novi HP1	Novi HP2	Novi HP3	Novi HP5
<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