



Solar Pump Inverter

- Unique MPPT algorithm
- Up to 98% conversion rate
- Intelligent power module, fully automatic, complete protection
- No energy storage or batteries required
- Driving the pump directly, high reliability, greatly reduce construction and maintenance expenses
- Fully compatible with 3phase AC pumps
- Full coverage (0.37-5.5kW)
- Best Operating Range of vmp and voc:
- Vmp: our inverter best operating voltage (500-550v)
- Voc: Typical 648v should no more than 750v



Our solar pump Inverter with LED display is easy to operate :

- 1.Solar pump system= solar panels+solar pump inverter+3phase AC pump.
No battery needed.(water storage replaces power storage) it can reduce system cost and maintenance costs.
- 2.As we all know,The start current of motor is high,our solar pump inverter have Soft start function (Slow start,Slow to stop,)no surge current /(no impact current). solar pump inverter can protect the pump.
- 3.It has the complete electric protective functions.
- 4.The most important is solar pump inverter have MPPT function (maximum power point tracking) ;
according to the sunlight intensity, solar pump inverter adjust the output frequency automatically to achieve maximum power point tracking etc.
5. Solar pump inverter controls and adjusts the working of solar pump system. solar pump inverter converts DC power produced by solar panels to AC power.AC water pump is driven by three phase solar pump inverter.

Detailed Product Description:

High efficiency>94%
variable frequency
soft start function

Protections :Over voltage, under voltage, over heat, reverse polarity, short-circuit

economical: matching with AC pump (AC pumps are less cost than DC pumps of same size and quality)

no need battery and charger controller (store water instead of store energy into battery)



Product Details: Solar Pump Inverter (3-Phase)

Description	Parameters	
	SWP03HP	SWP05HP
Solar Inverter Model	SWP03HP	SWP05HP
Solar Inverter Rated Power(kw)	1.5-3.8	4-5.92
Submersible Pump Rated Power(kW)	2.5	5.5
Submersible Pump Rated Voltage(V)	220	380
Solar Inverter Minimum DC Input Voltage(V)	280	450
Solar Inverter Maximum DC Input Voltage(V)	430	750
Solar Inverter (MPPT)Best operation voltage(V)	300-350	500-550
Solar inverter Output Voltage(v)	3PH 220	3PH 380
Solar inverter Output Frequency(Hz)	0-50/60	
Output Wave Form	Pure Sine Wave	
System Protection	OVP,UVP,Over heat, Reverse polarity	
Efficiency	>94%	
Operation Modes	Auto / Manual	
Display	LED display (43*15 mm)	
Display Parameters	SPV Array Voltage, SPV Array Current, AC Pump Frequency(Hz), AC Motor Speed(rpm), SPV Array Power(kW), Temperature of Inverter (deg C), AC Motor Current per Phase.	
Languages	English	
Ambient temperature	-10-50°C	
Humidity	>95% (non-condensing)	
Noise	no audible noise	

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