



Morning Global Company Limited

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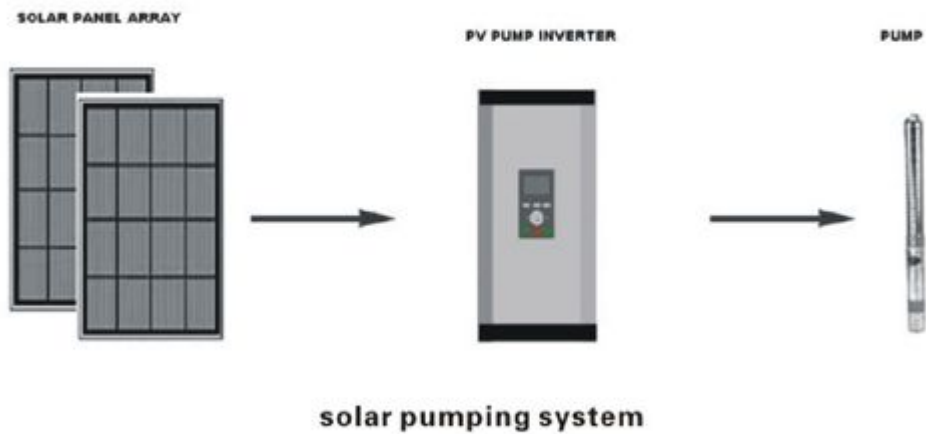
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### **Product Description:**

Solar water pumping system is constructed with solar panel array, solar pump inverter and AC water pump. DC current produced from solar panel will be delivered to solar pump inverter, and it will convert it into AC current to drive water pump, and will automatically regulate output frequency according to sun radiance intensity, maximally realize MPPT tracking function.

### **Product Features**

Adopting the proposed dynamic VI maximum power point tracking (MPPT) control method, with fast response, and reliable operation, achieves efficiency of 99%. Designed with variable frequency driver, greatly improves efficiency  
Extremely high efficiency  
Special technical for motor torque

Digital mode control, with automatic operation and manual operation mode options Complete protection functions  
Adopts Mitsubishi /Infineon IGBT, Intelligent IPM module, with high reliability LCD display and operation panel, in real time presents operating data

Optional for water level measurement and control circuit  
Applicable for general ACC pumps, like centrifugal pump, piston pump etc. Independent intellectual property; Highly effective, the redundant reliability, exempts the maintenance and the long life.

The pumps are soft started, fully protected.

No batteries are used. So better Sunlight, more water



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	FCPM700L	FCPM1100L	FCPM1500L	FCPM2200L
Max. input voltage	450V DC Vmp			
MPPT voltage range	220-350V DC			
Recommend input work voltage	310V DC			
Max. input current	8A	10A	12A	20A
Max. MPPT efficiency	99%			
Recommend pv array power	1.1KWP	1.65KWP	2.25KWP	3.3KW
Input road	1			
Max, drive motor power	0.7KW	1.1KW	1.5KW	2.2KW
Rated output voltage	220Vac 3phase			
Output frequency	0~50/60Hz			
Max. system efficiency	98%			
Operating temperature range	-25℃~+60℃			
Cooling method	Natural cooling + air cooling			
Display	LCD			
Altitude	3000m; 3000m; above 3000m need derate power			
Meet the standards	EN 50178; IEC/EN 62109-1; IEC 61800			

	FCPM1. 1KH	FCPM1. 5KH	FCPM2. 2KH	FCPM3KH
Max. input voltage	800V DC			
MPPT voltage range	430-650V DC			
Recommend input work voltage	540V DC Vmp			
Max. input current	8A	10A	12A	15A
Max. MPPT efficiency	99%			
Recommend pv array power	1.7KWP	2.3KWP	3.3KWP	4.5KW
Input road	1			
Max, drive motor power	1.1KW	1.5KW	2.2KW	3KW
Rated output voltage	380V/400V/410/440Vac 3phase			
Output frequency	0~50/60Hz			
Max. system efficiency	98%			
Operating temperature range	-25℃~+60℃			
Cooling method	Natural cooling + air cooling			
Display	LCD			
Altitude	3000m; 3000m; above 3000m need derate power			
Meet the standards	EN 50178; IEC/EN 62109-1; IEC 61800			



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MODLE	FCPM4KH	FCPM5K5H	FCPM7K5H	FCPM9KH
Max. input voltage	800V DC			
MPPT voltage range	430-650V DC			
Recommend input work voltage	540V DC Vmp			
Max. input current	18	20	30	35
Max. MPPT efficiency	99%			
Recommend pv array power	6KW	8.3KWP	11KWP	13KW
Input road	1			
Max, drive motor power	4KW	5.5KW	7.5KW	9KW
Rated output voltage	380V/400V/410V/440V ac 3phase			
Output frequency	0~50/60Hz			
Max. system efficiency	98%			
Operating temperature range	-25℃~+60℃			
Cooling method	Natural cooling + air cooling			
Display	LCD			

	FCPM11KH	FCPM15KH	FCPM22KH	FCPM30KH
Max. input voltage	800V DC			
MPPT voltage range	430-650V DC			
Recommend input work voltage	540V DC Vmp			
Max. input current	40	50	80	100
Max. MPPT efficiency	99%			
Recommend pv array power	16KWP	22KWP	33KWP	45KW
Input road	1			
Max, drive motor power	11KW	15KW	22KW	30KW
Rated output voltage	380V/400V/410V/440V ac 3phase			
Output frequency	0~50/60Hz			
Max. system efficiency	98%			
Operating temperature range	-25℃~+60℃			
Cooling method	Natural cooling + air cooling			
Display	LCD			



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	FCPM37KH	FCPM45KH	FCPM55KH	FCPM75KH
Max. input voltage	800V DC			
MPPT voltage range	430-650V DC			
Recommend input work voltage	540V DC Vmp			
Max. input current	150	150	200	250
Max. MPPT efficiency	99%			
Recommend pv array power	55KWP	67KWP	82KWP	112KW
Input road	1			
Max, drive motor power	37KW	45KW	55KW	75KW
Rated output voltage	380V/400V/410V/440V ac 3phase			
Output frequency	0~50/60Hz			
Max. system efficiency	98%			
Operating temperature range	-25℃~+60℃			

	FCPM110KH	FCPM132KH
Max. input voltage	800V DC	
MPPT voltage range	430-650V DC	
Recommend pv array voltage	540V DC Vmp	
Max. input current	300	360
Max. MPPT efficiency	99%	
Recommend pv array power	165KWP	198KW
Input road	1	
Max, drive motor power	110KW	132
Rated output voltage	380V/400V/410V/440V ac 3phase	
Output frequency	0~50/60Hz	
Max. system efficiency	98%	
Operating temperature range	-25℃~+60℃	
Cooling method	Natural cooling + air cooling	
Display	LCD	
Altitude	3000m; 3000m; above 3000m need derate power	
Meet the standards	EN 50178; IEC/EN 62109-1; IEC 61800	