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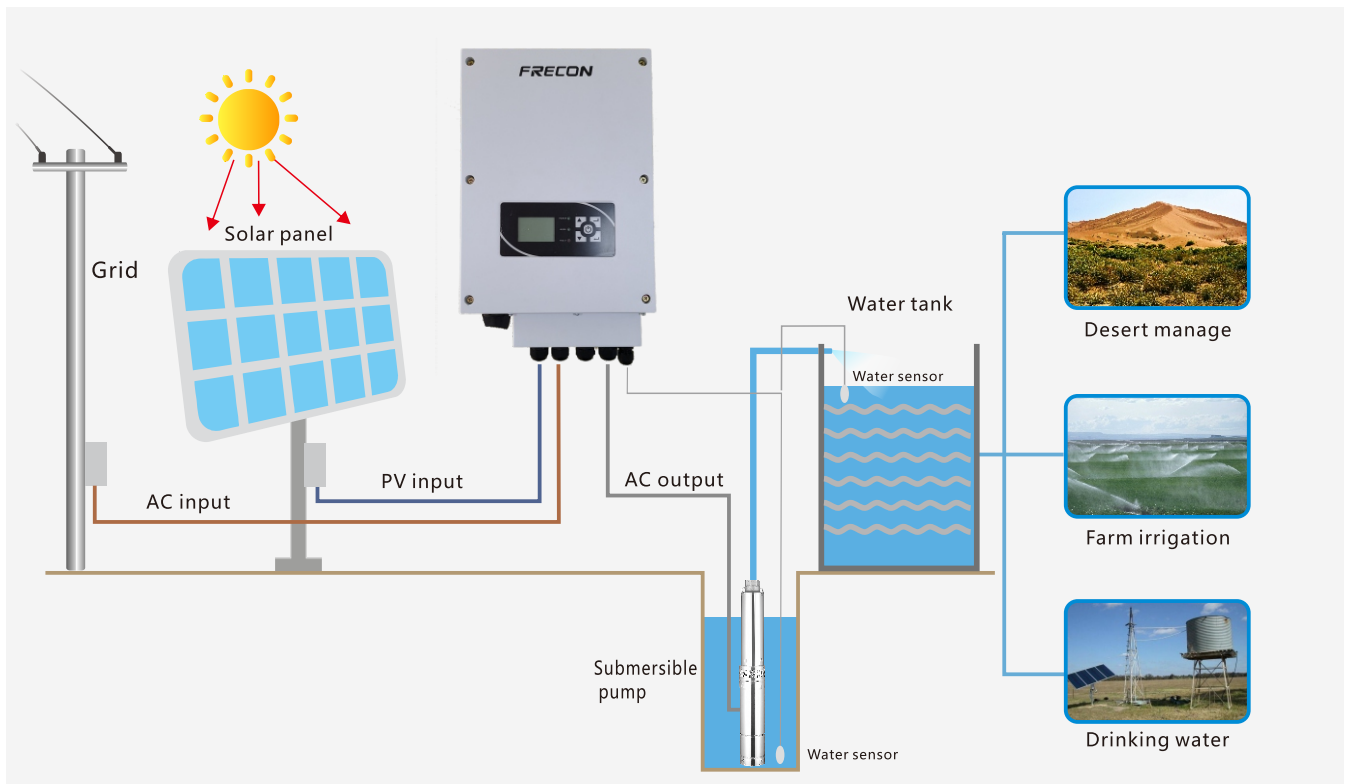
PV580 Series Solar Pump Inverter



FRECON ELECTRIC (SHENZHEN) CO.,LTD.



Solar Pump System Diagram



Features

- ▶ Fashion design, easy operation
- ▶ Widely used in various AC asynchronous and synchronous pumps
- ▶ IP65 design, outdoor installation
- ▶ Compatible with DC / AC power input
- ▶ Optimized MPPT algorithm, efficiency > 99%
- ▶ Operating temperature range: - 25 ~ 60 °C
- ▶ Natural cooling method, low noise
- ▶ All models can be configured with GPRS module (Optional) for real-time remote monitoring and operation in mobile APP
- ▶ Excellent performance, large water yield
- ▶ Supports over-voltage, phase loss, short circuit, over-temperature and etc. protection
- ▶ Models below 2.2kW are built-in DC boost module for lower DC voltage input to reduce quantity of solar panel
- ▶ Built-in start-stop button, operation easily

Technical Parameters

Model	PV580-2S-0.4-H	PV580-2S-0.7-H	PV580-2S-1.5-H	PV580-2S-2.2-H	PV580-2S-3.0-H
PV Input					
DC Max Input Voltage	450V				
Recommended MTPP Voltage	100V-400V				
DC Max Input Current	15A	15A	30A	30A	30A
Max MPPT Efficiency	>99%				
Number of string	1				
AC/DC Input					
Voltage	200-260Vac (1PH)				
Frequency	50Hz/60Hz (±3%)				
AC Output					
Max Motor Output	0.4kW	0.7kW	1.5kW	2.2kW	3.0kW
Rated Output Voltage	220/230Vac (1PH or 3PH)				
Output Frequency Range	0-50/60Hz				
Rated Output Current (Single Phase)	4.2A	7.5A	10.5A	15A	17A
Rated Output Current (Three Phase)	2.5A	4.2A	7.5A	9.5A	13A
System					
Protection Grade	IP65				
Operating Temperature	-25-60°C				
Cooling Way	Natural cooling				
Display	LCD				
Communication	RS485, GPRS (Optional)				
Altitude	3000m, above 3000m need derate operating				
Noise Emission	<50dB				
Compliance	EN50178, IEC/EN62109-1, IEC61800				
Dimension	280*440*150 (W*H*D, mm)				
Package Dimension	360*520*233 (W*H*D, mm)				
Net Weight /Gross Weight	11.4/12.6 (Kg)				

Technical Parameters

Model	PV580-4T-2.2-H	PV580-4T-4.0-H	PV580-4T-5.5-H	PV580-4T-7.5-H
PV Input				
DC Max Input Voltage	900V			
Recommended MTTP Voltage	450V-850V			
DC Max Input Current	15A	15A	30A	30A
Max MPPT Efficiency	>99%			
Number of string	1			
AC/DC Input				
Voltage	360-460Vac(3PH)			
Frequency	50Hz/60Hz(±3%)			
AC Output				
Max Motor Output	2.2kW	4.0kW	5.5kW	7.5kW
Rated Output Voltage	380-460Vac(3PH)			
Output Frequency Range	0-50/60Hz			
Rated Output Current	5.5A	9.5A	13A	17A
System				
Protection Grade	IP65			
Operating Temperature	-25-60°C			
Cooling Way	Natural cooling			
Display	LCD			
Communication	RS485/GPRS			
Altitude	3000m, above 3000m need derate operating			
Noise Emission	<50dB			
Compliance	EN50178,IEC/EN62109-1,IEC61800			
Dimension	280*440*150 (W*H*D, mm)			
Package Dimension	360*520*233 (W*H*D, mm)			
Net Weight /Gross Weight	11.4/12.6(Kg)			

Technical Specification

Product Number	PV580-4T-011-H	PV580-4T-015-H	PV580-4T-018-H	PV580-4T-022-H	PV580-4T-030-H	PV580-4T-037-H	PV580-4T-045-H	PV580-4T-055-H	PV580-4T-075-H	
Photovoltaic Input										
Maximum DC Input	900V									
Recommended MPPT Voltage Range	450V-850V									
Maximum DC Input Current	37A	48A	55A	67A	90A	112A	136A	168A	232A	
MPPT Maximum Efficiency	>99%									
Input Channels	1									
Mains/generator Input										
Voltage	360-460Vac (3PH)									
Frequency	50Hz/60Hz (±3%)									
AC Output										
Maximum Matching Motor Power	11kW	15kW	18.5kW	22kW	30kW	37kW	45kW	55kW	75kW	
Rated Output Voltage	380-460Vac (3PH)									
Output Frequency Range	0-50/60Hz									
Rated Output Current	25A	32A	37A	45A	60A	75A	91A	112A	150A	
System										
Degree Of Protection	IP65									
Operating Ambient Temperature Range	-25-60°C									
Cooling Method	Forced air cooling									
Monitor	LCD									
Communication	RS485/GPRS									
Altitude	3000 meters, derating operation above 3000 meters									
Noise	<50dB									
Standards Compliant	EN50178 IEC/EN62109-1 IEC61800									
Dimensions	340*539*187(W*H*D)mm				520*550*240(W*H*D)mm			500*650*300(W*H*D, mm)		
Package	450*650*305(W*H*D)mm				550*830*387(W*H*D)mm			600*850*450 (W*H*D, mm)		
Net Weight/Gross Weight (Kg)	19.8/22.6				33.7/37.3			52/57		

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