

FRECON



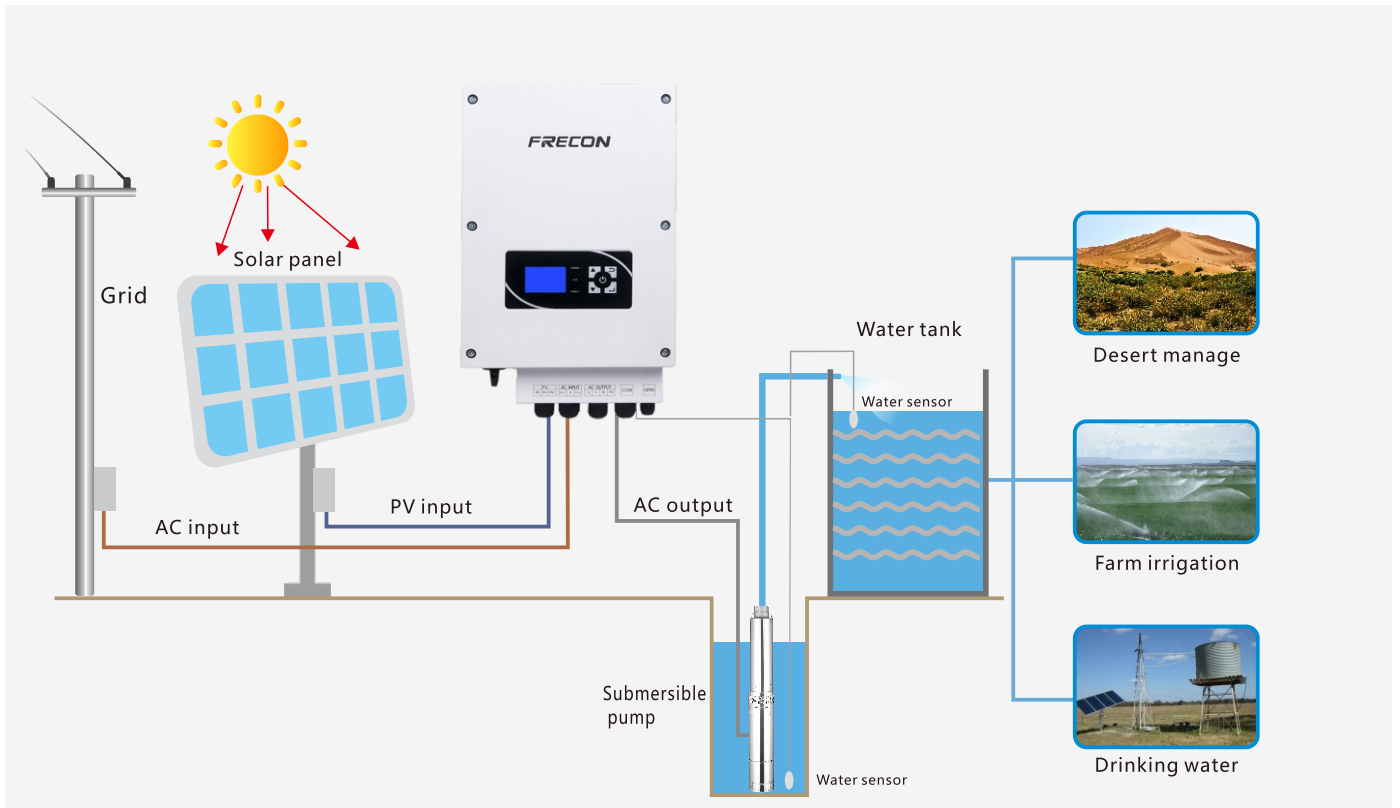
PV580 Series Solar Pump Inverter



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 4G or WIFI 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 Specification

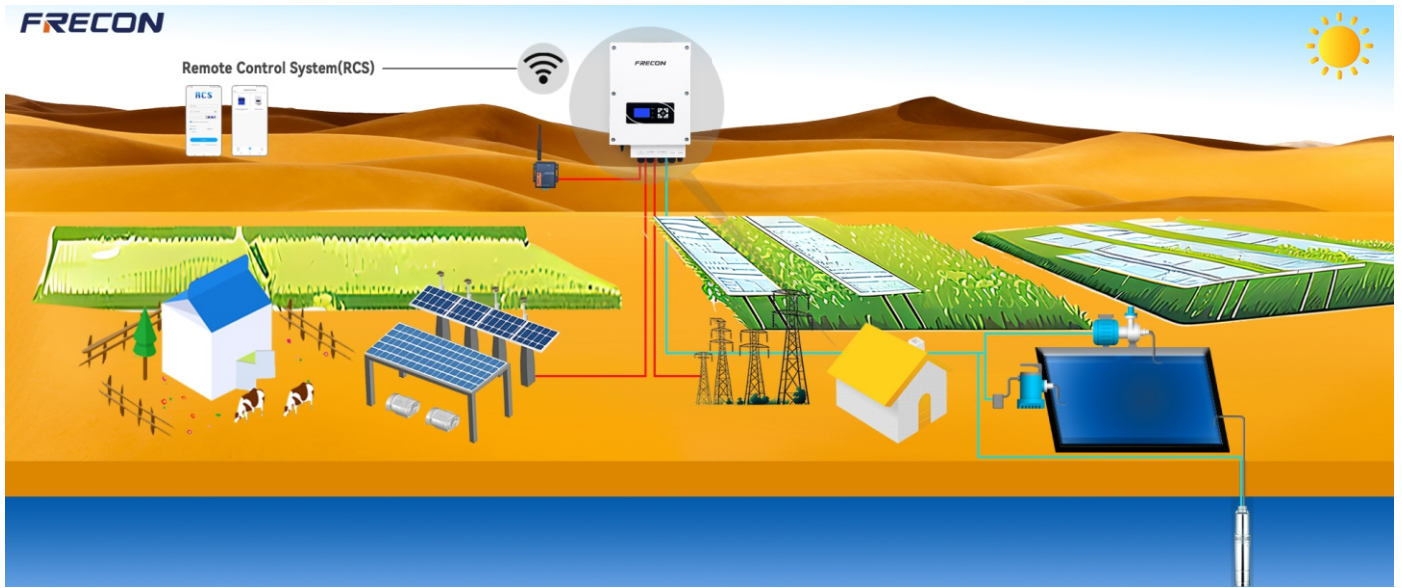
Model	PV580-2S-0.4-H	PV580-2S-0.7-H	PV580-2S-1.5-H	PV580-2S-2.2-H	PV580-2S-3.0-H
PV Input					
DC Max Input Voltage	450V				
Recommended MPPT Voltage	100V-400V			360V-430V	
DC Max Input Current	15A	15A	30A	30A	30A
Max MPPT Efficiency	>99%				
Number of string	1				
AC Input					
Voltage	200-260Vac(1PH)				
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(Kg)	11.4/12.6				

Technical Specification

Model	PV580-4T-2.2-H	PV580-4T-4.0-H	PV580-4T-5.5-H	PV580-4T-7.5-H	PV580-4T-011-H	PV580-4T-015-H	PV580-4T-018-H	PV580-4T-022-H
PV Input								
DC Max Input Voltage	900V							
Recommended MPPT Voltage	450V-850V							
DC Max Input Current	15A	15A	30A	30A	37A	48A	55A	67A
Max MPPT Efficiency	>99%							
Number of string	1							
AC Input								
Voltage	360-460Vac(3PH)							
Frequency	50Hz/60Hz(±3%)							
AC Output								
Max Motor Output	2.2kW	4.0kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW
Rated Output Voltage	380-460Vac(3PH)							
Output Frequency Range	0-50/60Hz							
Rated Output Current	5.5A	9.5A	13A	17A	25A	32A	37A	45A
System								
Protection Grade	IP65							
Operating Temperature	-25-60°C							
Cooling Way	Natural cooling				Forced air 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)				340*539*187(W*H*D)mm			
Package Dimension	360*520*233(W*H*D,mm)				450*650*305(W*H*D)mm			
Net Weight / Gross Weight(Kg)	11.4/12.6				19.8/22.6			

Technical Specification

Product Number	PV580-4T-030-H	PV580-4T-037-H	PV580-4T-045-H	PV580-4T-055-H	PV580-4T-075-H	PV580-4T-090-H	PV580-4T-110-H
PV Input							
Maximum DC Input	900V						
Recommended MPPT Voltage Range	450V-850V						
Maximum DC Input Current	90A	112A	136A	168A	232A	275A	338A
MPPT Maximum Efficiency	>99%						
Input Channels	1						
AC Input							
Voltage	360-460Vac(3PH)						
Frequency	50Hz/60Hz(±3%)						
AC Output							
Maximum Matching Motor Power	30kW	37kW	45kW	55kW	75kW	90kW	110kW
Rated Output Voltage	380-460Vac(3PH)						
Output Frequency Range	0-50/60Hz						
Rated Output Current	60A	75A	91A	112A	150A	176A	210A
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	520*550*240(W*H*D)mm				660*700*313(W*H*D)mm		
Package	550*830*387(W*H*D)mm				735*765*530 (W*H*D)mm		
Net Weight/ Gross Weight (Kg)	33.7/37.3				49/70.4		



1

Add Device

3

Parameter Settings

5

Fault Data

Account Registration

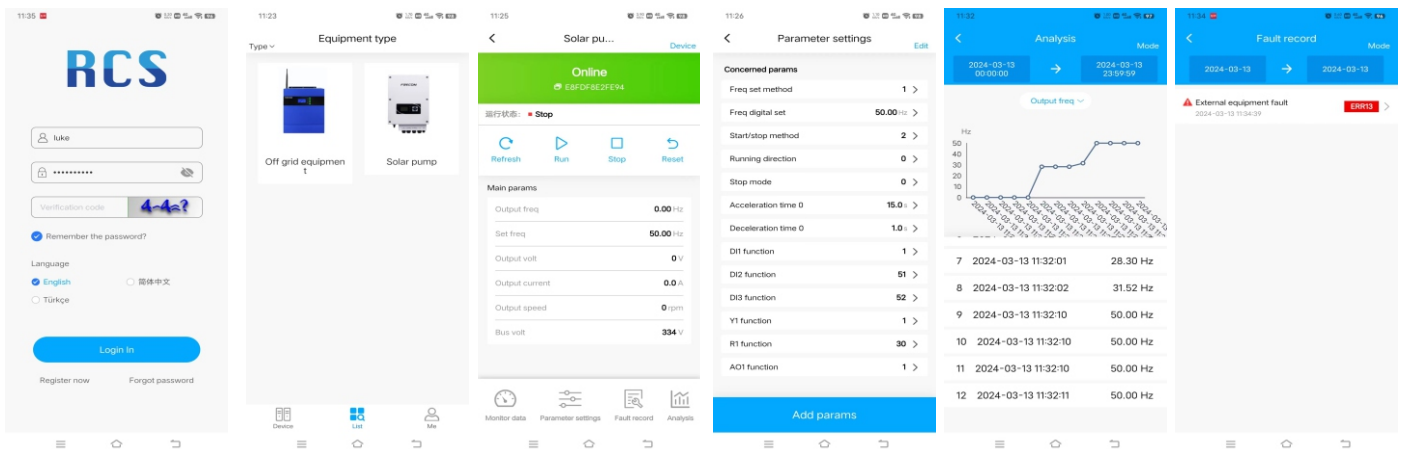
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Monitoring Data

4

Data Curve

6



Features

- ▷ Monitor all devices in real time
- ▷ Can start, stop and reset the devices via the APP and Web
- ▷ Read and change the device's parameters
- ▷ Check the device's fault record
- ▷ Check monitoring parameters' data changing curves
- ▷ Check the location of the device
- ▷ Monitor the device's generated power and water yield

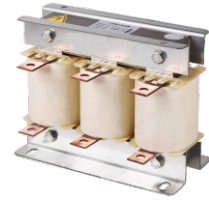
Optional Accessories



Breaker



WiFi Module



Filter



SPD



4G Module



Reactor

Applications



PV580-4T-7.5 in Turkey



PV580-4T-5.5 in Afghanistan



PV580-4T-055 in Peru



PV580-4T-045 in Saudi Arabia



PV580-4T-4.0 in Kenya



PV580-4T-075 in Yemen



PV580-4T-132 in Brazil



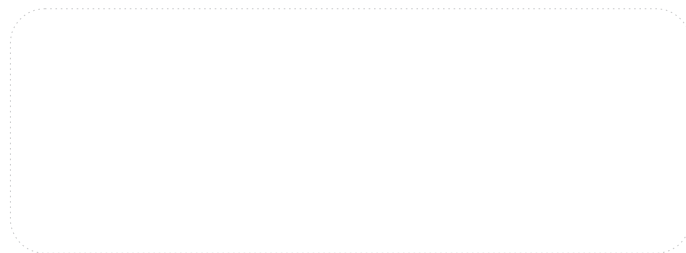
PV580-4T-7.5 in Myanmar



PV580-4T-011 in South Africa



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