

# Solar Pump Inverter

PV150A&500/PV530/PV580



**FRECON**





# ABOUT US

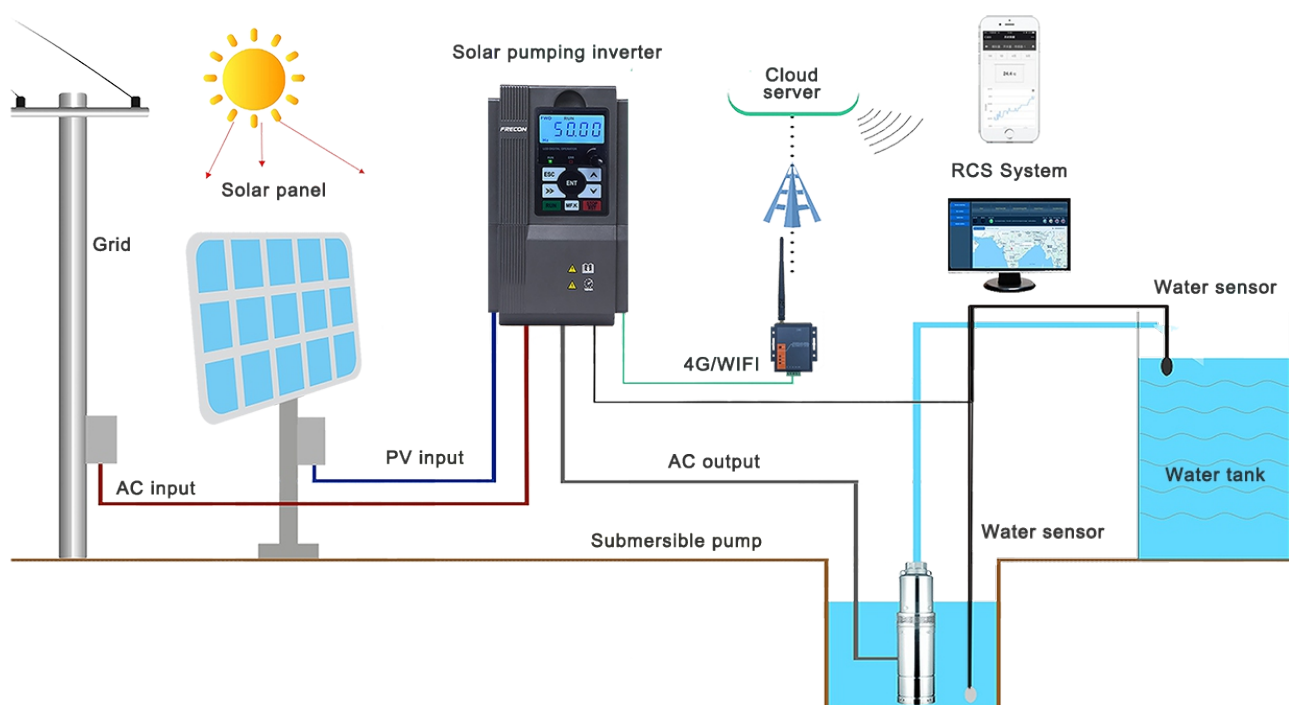
FRECON Electric (Shenzhen) Co., Ltd. is a national key high-tech enterprise, a dual-soft enterprise in Shenzhen, and a professional company in the fields of industrial automation, high efficiency and energy saving, and green new energy which was founded in 2013. We have more than 16 years of experience in the development and application of frequency converters, servo drives, energy-saving control cabinets, solar inverter systems etc.







## Solar Pump System



# Product Introduction



## PV150A&500

1PH 220V 0.7~5.5kw/ 3PH 220V 0.4~22kw  
3PH 380V 0.7~630kw

- ▷ Advanced MPPT algorithms
- ▷ Applicable to AM, PMSM , etc
- ▷ Support dry run protection, tank water level control
- ▷ Support solar power DC/Power grid AC input, and DC/AC auto switch
- ▷ Dormancy and Wake-up automatically



## PV530

1PH 220V 2.2kw

- IP54 design
- ▷ Dual output for different motor
- ▷ Applicable to AM, PMSM, etc
- ▷ Built in DC boost module



## PV580

1PH/3PH 220V 0.4~3.0kw  
3PH 380V 2.2~110kw

- IP65 design, outdoor installation
- ▷ Operating temperature range: - 25 ~ 60 °C
- ▷ Natural cooling method, low noise(7.5KW and below power)
- ▷ Models below 2.2KW are built-in DC boost module for lower DC voltage input
- ▷ All models support built-in 4G module (optional)
- ▷ Built-in start-stop button, operation easily

# Type Selection

## PV500-4T-2.2B

### Products Series

- PV150A: Economical solar pump inverter
- PV150I: Single phase motor solar pump inverter
- PV500: General solar pump inverter
- PV530: IP54 solar pump inverter
- PV580: IP65 solar pump inverter




Brake Unit(Built-in)

Output Power:2.2KW

### Input Voltage Level

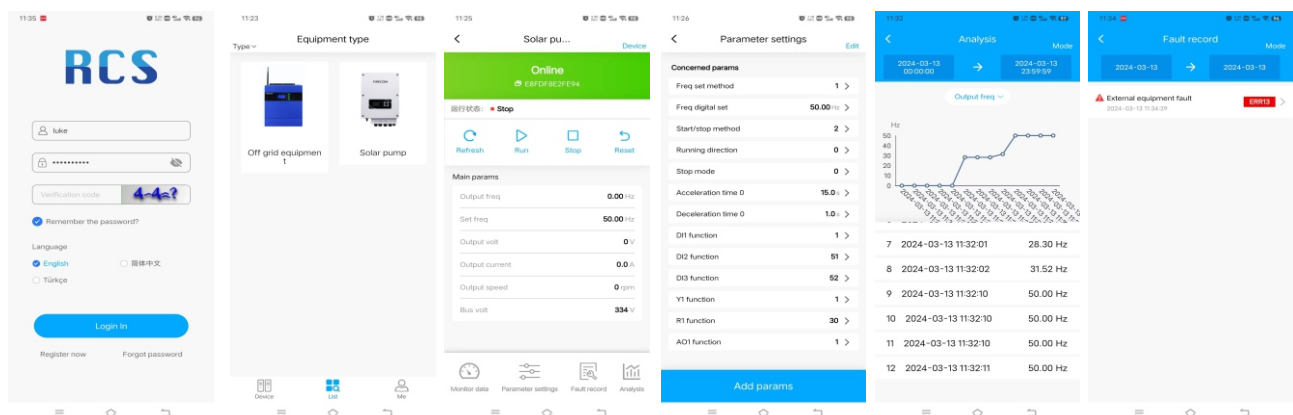
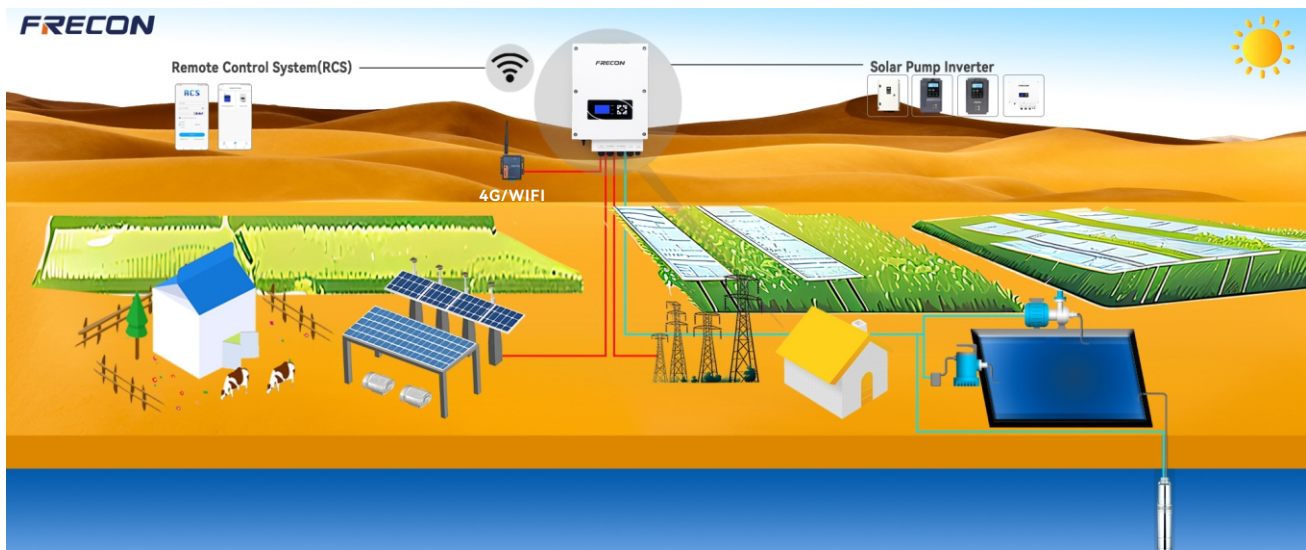
- 4T: Three Phase 380V
- 2T: Three Phase 220V
- 2S: Single Phase 220V
- 1S: Single Phase 110V

## Technical Specification

Product series Product specification					
		PV150A&500		PV530	PV580
Basic characteristics	Output voltage and power(KW)	1AC 220V 0.75–5.5KW 3AC 220V 0.75–22KW 3AC 380V 0.75–630KW		3AC 220V 2.2KW	1PH/3PH 220V 0.4–3.0kw 3PH 380V 2.2–110kw
	DC Input Voltage Range(V)	2S/2T: 70–450V 4T: 230–800V(–HV:900V)		70–450V	2S: 70–450V 4T: 230–900V
	Motor type	AM,PMSM			
	Overload capability	150% Rated Current 60s 180% Rated Current 10s 200% Rated Current 1s			
Structure characteristics	IP grade	IP20		IP54	IP65
	Installation	Wall mounting			
	Cooling method	Fan cooling		Fan cooling	Fan cooling (above 7.5KW) Natural cooling (7.5KW and below)
Hardware characteristics	DI terminal	5DI		2DI	2S:4DI 4T:5DI
	DO terminal	PV150A:2DO PV500:3DO		NA	4T:1DO
	AI terminal	2AI		NA	4T:1AI
	AO terminal	PV150A:1AO PV500:2AO		NA	4T:1AO
	Communication	RS485,4G,WIFI			
	DC Input	Standard			
	AC Input	Standard			
	Keypad	Simple LCD keypad		LED keypad	LCD keypad
	DC brake	NA		Standard built in	
Functions	MPPT efficiency	99%			
	Water level control	Support			
	DC/AC power display	NA		NA	Support
	Automatic start/stop	Support			
Protection		Lighting Protection, over-current, overvoltage, output phase-lose, under-load, under-voltage, short circuit, overheating, water pump run dry etc.			
Certification		CE(IEC 62109)			



## Remote Control System(RCS)



## 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



**Multifunctional LCD Keypad**



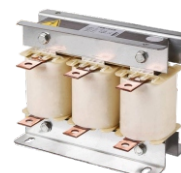
**WIFI Module**



**Water Sensor**



**Breaker**



**Sine Wave Filter**



**SPD**



**4G Module**

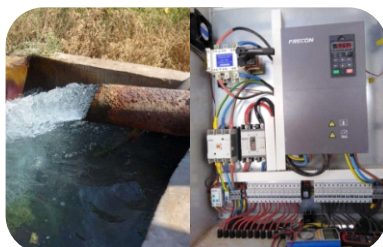


**Output Reactor**

## Applications



PV150A-2S-2.2 in India



PV500-4T-030 in Egypt



PV500-4T-037 in Morocco



PV500-4T-045 in Saudi Arabia



PV500-4T-055 in Turkey



PV500-4T-110 in Yemen



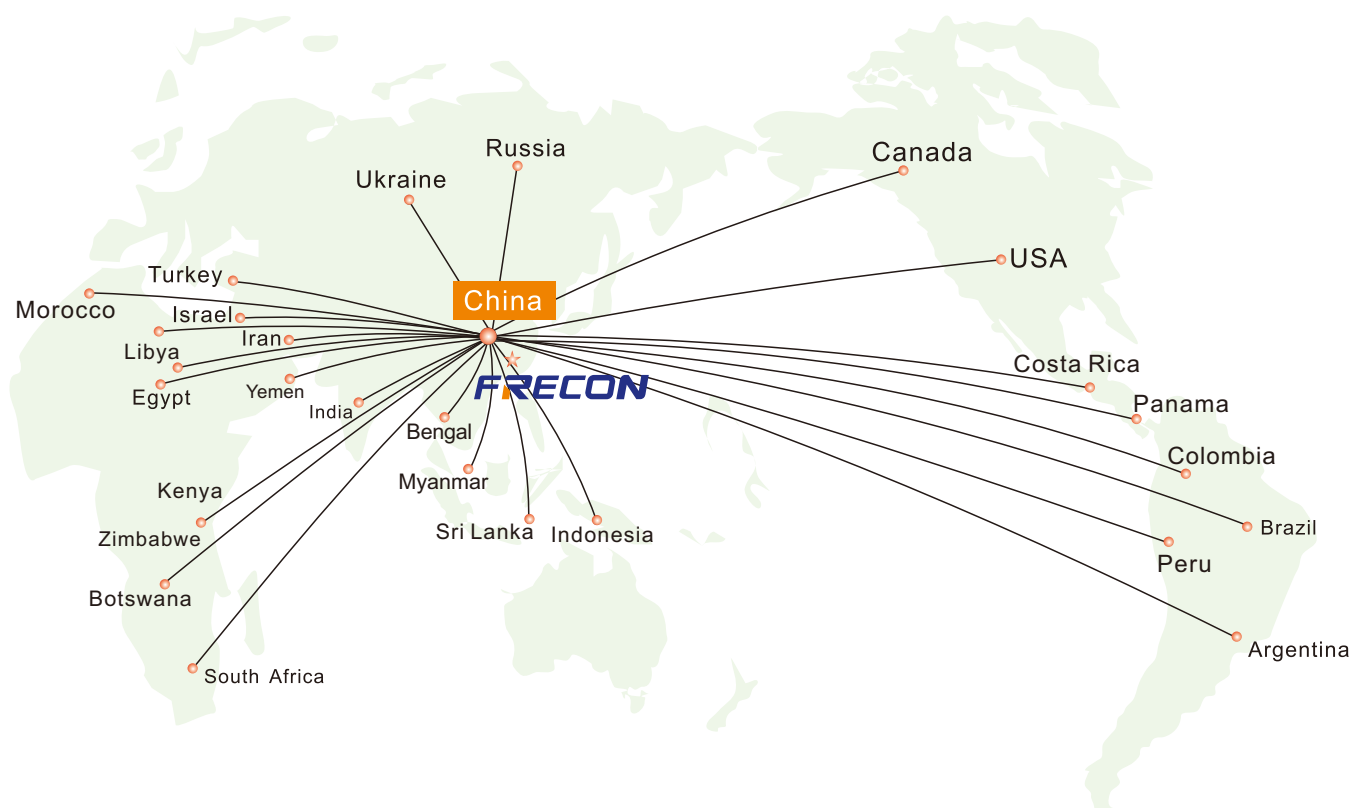
PV500-4T-132 in Brazil



PV580-4T-7.5 in Myanmar



PV580-4T-011 in South Africa



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