PV01 Series

Solar Pump Inverter



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.









PV01 Series Summary



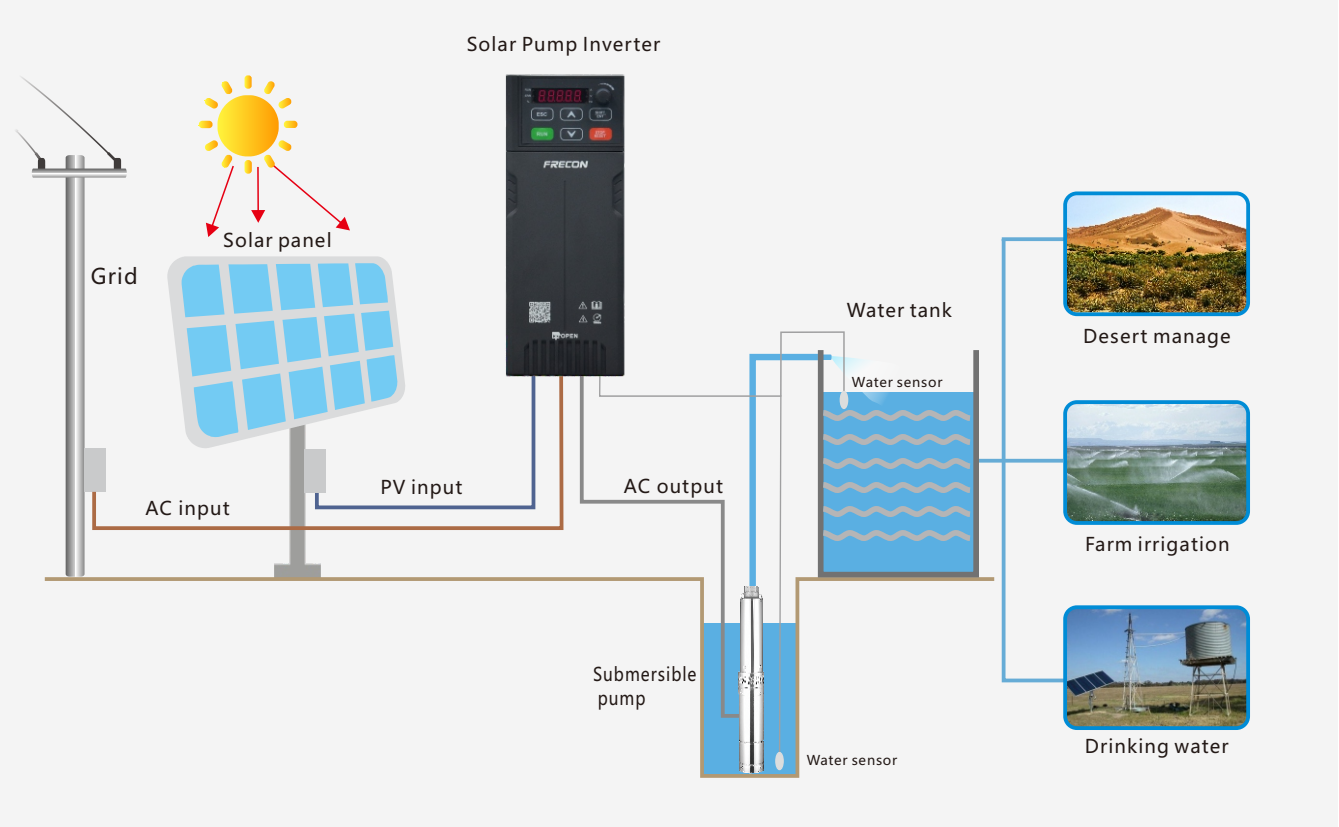
PV01 series supports driving asynchronous water pumps, synchronous water pumps and BLDC, with an efficiency of over 99%, supports DC/Ac power input, and can realize automatic switching without battery, automatically sleeps when the light is weak, and automatically resumes work when the light is strong, without manual operation. Under the same conditions, the water output is large.

Product power

- Three phase 380V: 0.75-7.5KW
- Single phase 220V: 0.4-4.0KW

Solar Pump Inverter

Solar Pumping System Diagram



Features

Application
- Applicable to AM, PMSM,etc.

Advanced MPPT algorithms
- Efficiency reaches 99%

Hybrid power supply
- Support DC solar power / AC grid power input, and DC/AC auto switch

Eco-friendly
- Operation without battery

Large water yield
- Larger water yield under same condition

Dormancy and Wake-up function
- Inverter will entry dormancy mode and wake up automatically according to sunshine intensity

Built-in protection
- Support over-current, over-voltage, phase loss, short circuit, over-temperature protection etc.

Recording functions
- Recording for total power generated (Kw/h), water flow(m3), and operation time(H)

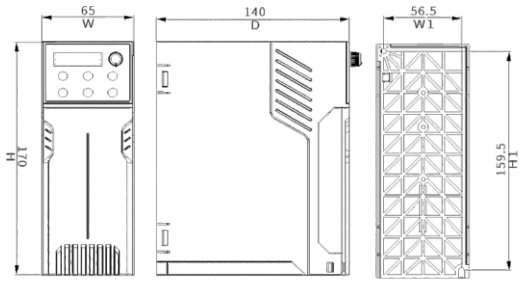
Water level control
- Dry run protection
- Tank water level control

Technical Specification

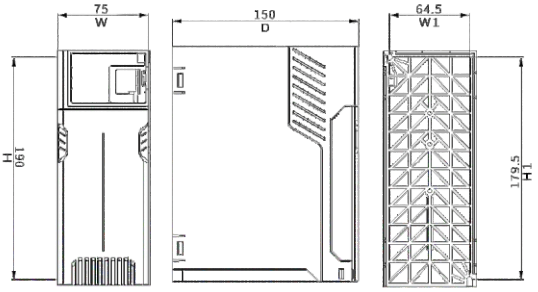
Model	Rated Output Current (A)	Maximum DC Input Current (A)	DC Input Voltage Range (V)	Recommended Solar Power (KW)	Recommended Solar Open Circuit Voltage (Voc)	Pump Power (KW)
PV01-1S: DC input 70-450V, AC input single phase 110-220V; Output three phase 110V AC						
PV01-1S-1.5-H	7.5	10.6	70-450	0.6	170-300	0.4
PV01-1S-2.2-H	9.5	10.6	70-450	1.0	170-300	0.75
PV01-2S: DC input 140-450V, AC input single phase 220V (-15%~20%) ; Output three phase 220V AC						
PV01-2S-0.4-H	2.5	10.6	140-450	0.6	360-430	0.4
PV01-2S-0.7-H	4.2	10.6	140-450	1.0	360-430	0.75
PV01-2S-1.5-H	7.5	10.6	140-450	2.0	360-430	1.5
PV01-2S-2.2-H	9.5	10.6	140-450	2.9	360-430	2.2
PV01-2S-4.0-H	17	21.1	140-450	5.2	360-430	4
PV01-4T: DC input 230-800V, AC input three phase 380V (-15%~30%); Output three phase 380V AC						
PV01-4T-0.7-H	2.5	10.6	230-800	1.0	600-750	0.75
PV01-4T-1.5-H	4.2	10.6	230-800	2.0	600-750	1.5
PV01-4T-2.2-H	5.5	10.6	230-800	2.9	600-750	2.2
PV01-4T-4.0-H	9.5	10.6	230-800	5.2	600-750	4.0
PV01-4T-5.5-H	13.0	21.1	230-800	7.2	600-750	5.5
PV01-4T-7.5-H	17.0	21.1	230-800	9.8	600-750	7.5

Installation Dimensions

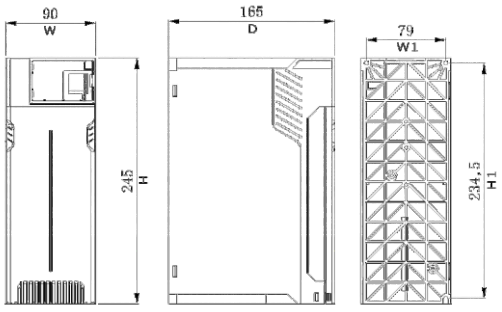
SIZE	Model	External and Install dimensions(mm)				
		W	W1	H	H1	D
SIZE A	PV01-2S-0.4-H	65	56.5	170	159.5	140
	PV01-2S-0.7-H					
	PV01-4T-0.4-H					
	PV01-4T-0.7-H					
	PV01-4T-1.5-H					
SIZE B	PV01-2S-1.5-H	75	64.5	190	179.5	150
	PV01-4T-2.2-H					
	PV01-4T-4.0-H					
SIZE C	PV01-2S-2.2-H	90	79	245	234.5	165
	PV01-2S-4.0-H					
	PV01-4T-5.5-H					
	PV01-4T-7.5-H					



SIZE A



SIZE B



SIZE C

Optional Accessories

4G/WIFI module

- All models can be configured with 4G/WIFI module for real-time remote monitoring and operation in APP & WEB.

4G module



WIFI module



Output reactor

- It can increase inverter transmission distance, suitable for long cable water pump applications.

Output reactor

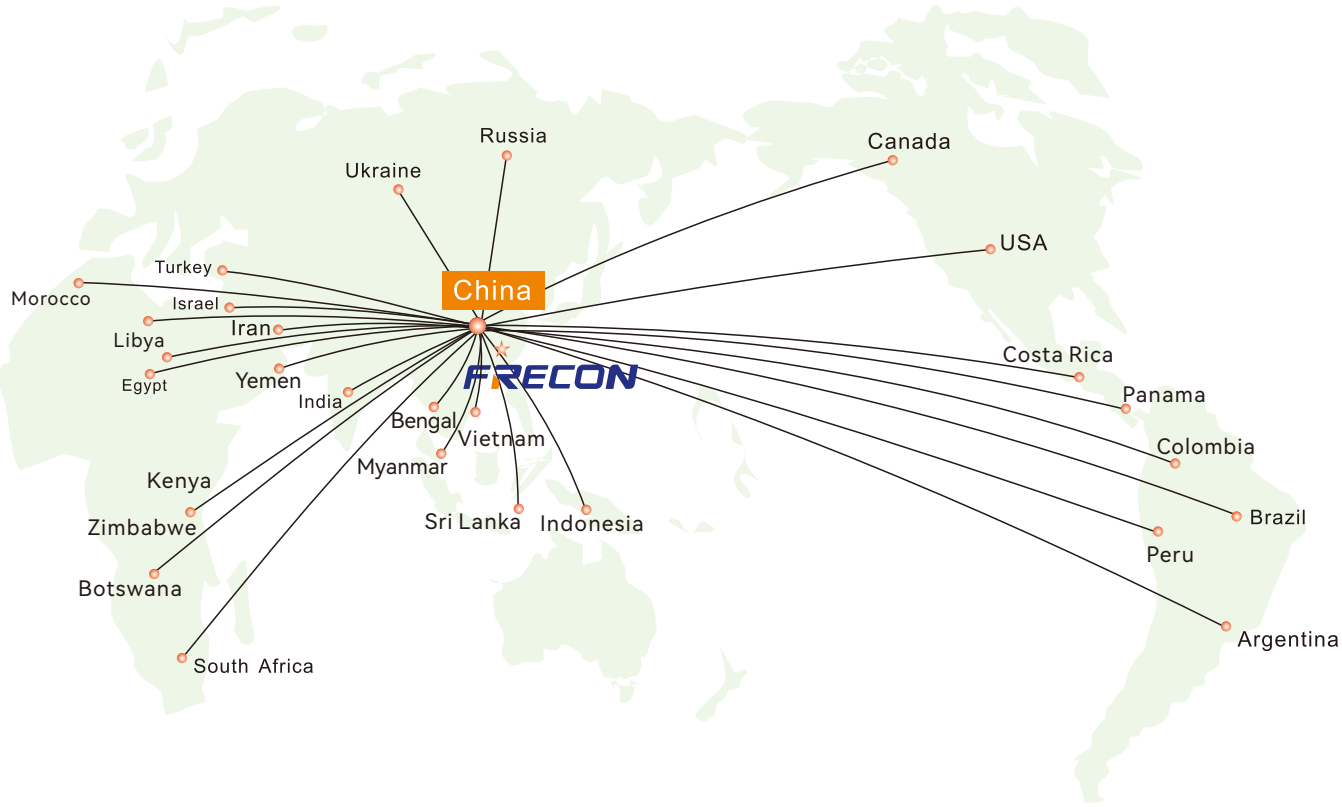


Applications









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