

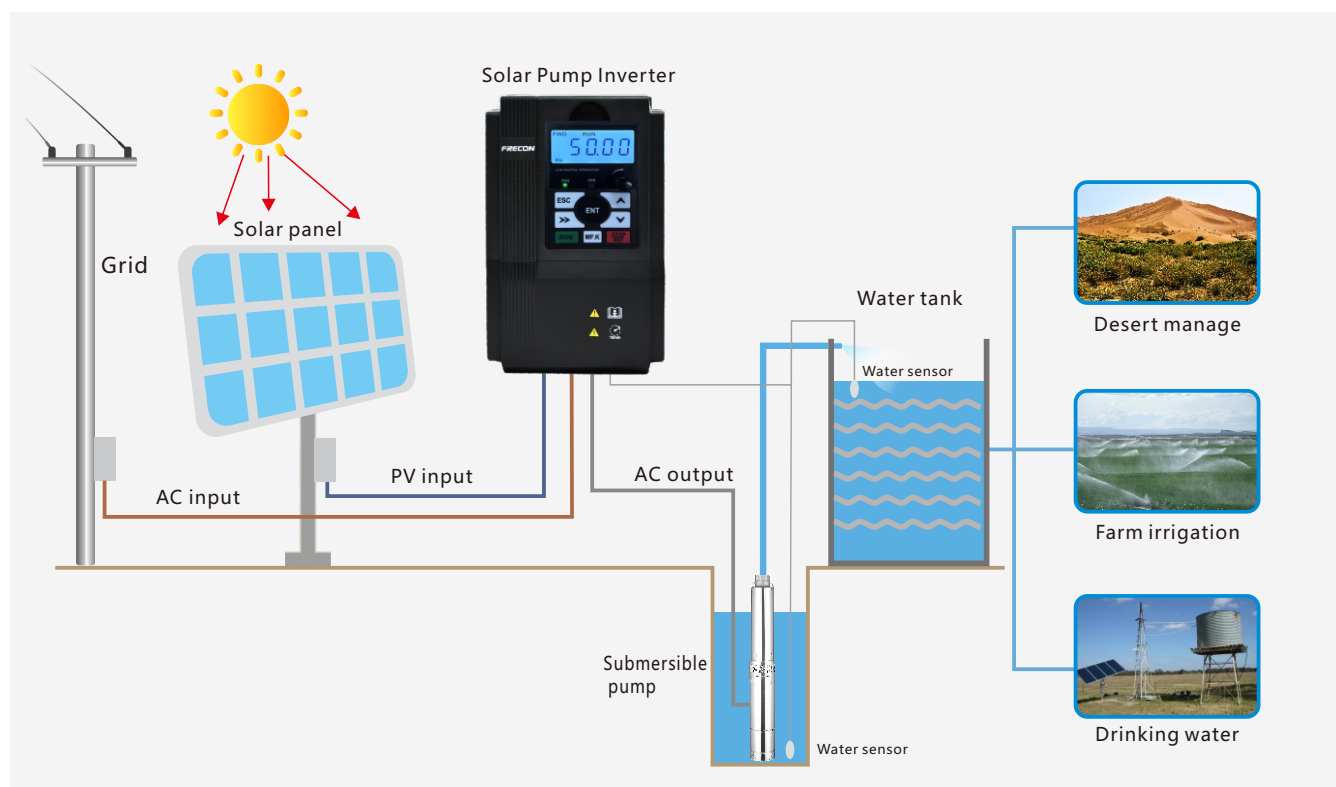
PV150A&500 Series

Solar Pump Inverter



FRECON

Solar Pump System Diagram



Features

Application

- Applicable to AM, PMSM, BLDC etc.

Advanced MPPT algorithms

- Efficiency reaches 99%

Eco-friendly

- Operation without battery

Large water yield

- Larger water yield under same condition

Water level control

- Dry run protection, tank water level control

Recording functions

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

Hybrid power supply

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

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, shortcircuit, over-temperature protection etc.

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)
PV150I-2S: DC input 140-450V DC or AC input single phase 220V; Output single phase 220VAC						
PV150I-2S-0.7B-H	7.5	10.6	140-450	1	360-430	0.75
PV150I-2S-1.5B-H	10.5	10.6	140-450	2	360-430	1.5
PV150I-2S-2.2B-H	17	21.1	140-450	2.9	360-430	2.2
PV150I-2S-4.0B-H	25	31.7	140-450	5.2	360-430	4.0
PV150I-2S-5.5B-H	32	42.2	140-450	7.2	360-430	5.5
PV150A-1S : DC input 140-450V or AC input single phase 110-220V; Output three phase 110VAC						
PV150A-1S-1.5B-H	7.5	10.6	140-450	0.6	170-300	0.4
PV150A-1S-2.2B-H	9.5	10.6	140-450	1	170-300	0.75
PV150A-2S : DC input 140-450V or AC input single phase 220V ; Output three phase 220VAC						
PV150A-2S-0.4B-H	2.5	10.6	140-450	0.6	360-430	0.4
PV150A-2S-0.7B-H	4.2	10.6	140-450	1	360-430	0.75
PV150A-2S-1.5B-H	7.5	10.6	140-450	2	360-430	1.5
PV150A-2S-2.2B-H	9.5	10.6	140-450	2.9	360-430	2.2
4T : DC input 230-800V or AC input three phase 380V ; Output three phase 380VAC						
PV150A-4T-0.7B-H	2.5	10.6	230-800	1	600-750	0.75
PV150A-4T-1.5B-H	4.2	10.6	230-800	2	600-750	1.5
PV150A-4T-2.2B-H	5.5	10.6	230-800	2.9	600-750	2.2
PV500-4T-4.0B-H	9.5	10.6	230-800	5.2	600-750	4
PV500-4T-5.5B-H	13	21.1	230-800	7.2	600-750	5.5
PV500-4T-7.5B-H	17	21.1	230-800	9.8	600-750	7.5
PV500-4T-011B-H	25	31.7	230-800	14.3	600-750	11
PV500-4T-015B-H	32	42.2	230-800	19.5	600-750	15
PV500-4T-018B-H	37	52.8	230-800	24.1	600-750	18.5
PV500-4T-022B-H	45	63.4	230-800	28.6	600-750	22
PV500-4T-030B-H	60	95	230-800	39	600-750	30
PV500-4T-037-H	75	116.2	230-800	48.1	600-750	37
PV500-4T-045-H	91	137.2	230-800	58.5	600-750	45
PV500-4T-055-H	112	169.0	230-800	71.5	600-750	55
PV500-4T-075-H	150	232.3	230-800	97.5	600-750	75
PV500-4T-090-H	176	274.6	230-800	117	600-750	90
PV500-4T-110-H	210	337.9	230-800	143	600-750	110
PV500-4T-132-H	253	401.3	230-800	171.6	600-750	132
PV500-4T-160-H	304	485.8	230-800	208	600-750	160

Note: 1. Refer to user manual for models 185kW~630kW
2. Can customize PV500 models with 900VDC input

LCD Keypad

- Can display four parameters at same time
- With parameter definitions, more easy to use
- Supports parameter backup and upload/download

Multi-function LCD keypad



Output Reactor

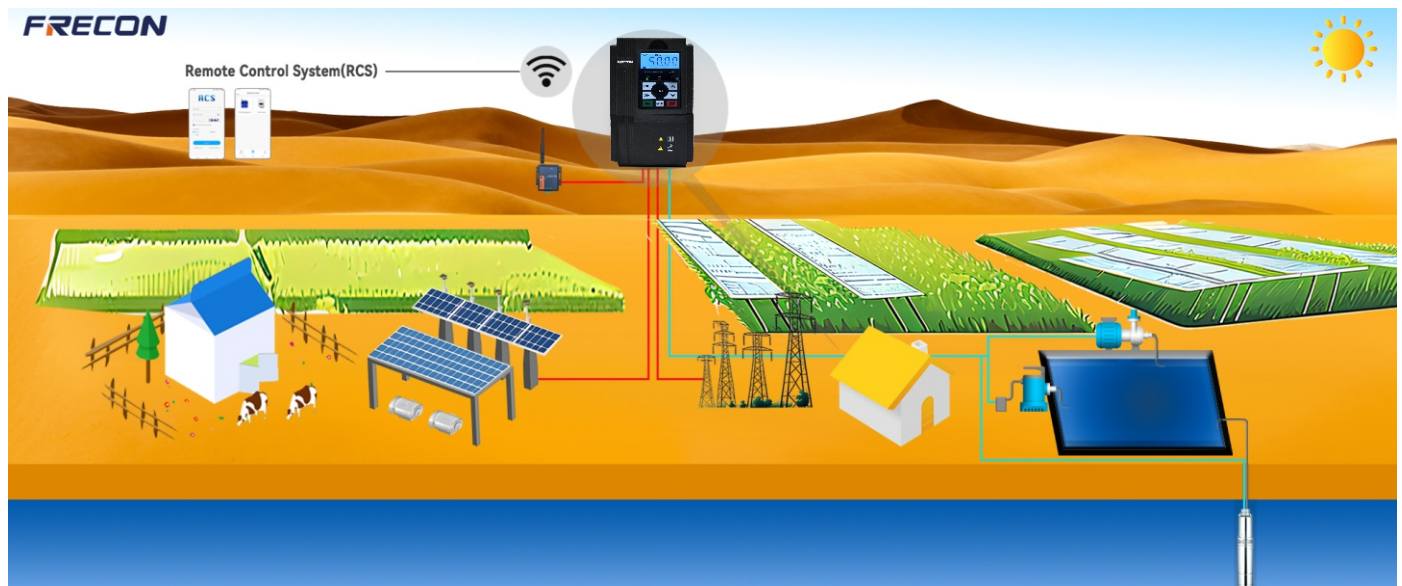
- It can increase the inverter transmission distance ,suitable for long cable water pump applications

Output Reactor



4G/WIFI Module

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



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