



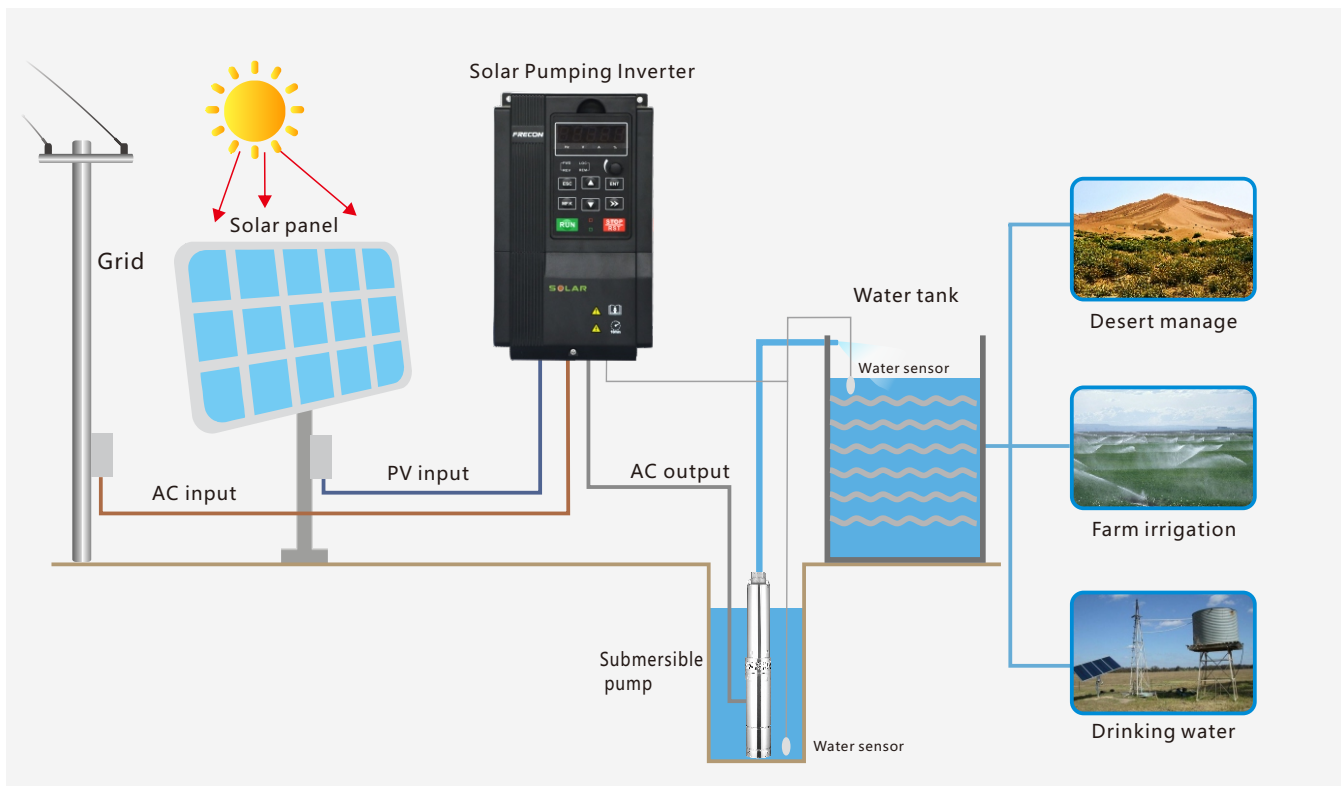
PV150A&500 Series Solar Pump Inverter



FRECON ELECTRIC (SHENZHEN) CO.,LTD.



Solar Pumping System Diagram



Features

Application

Applicable to AM, PMSM, BLDC etc.

Advanced MPPT algorithms

Efficiency reaches 99%

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.

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)

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 70-450V DC or AC input single phase 220V ; Output single phase 220VAC						
PV150I-2S-0.7B	7.5	10.6	70-450	1	360-430	0.75
PV150I-2S-1.5B	10.5	10.6	70-450	2	360-430	1.5
PV150I-2S-2.2B	17	21.1	70-450	2.9	360-430	2.2
PV150I-2S-4.0B	25	31.7	70-450	5.2	360-430	4.0
PV150I-2S-5.5B	32	42.2	70-450	7.2	360-430	5.5
PV150A-1S : DC input 70-450V or AC input single phase 110-220V ; Output three phase 110VAC						
PV150A-1S-1.5B	7.5	10.6	70-450	0.6	170-300	0.4
PV150A-1S-2.2B	9.5	10.6	70-450	1	170-300	0.75
PV150A-2S : DC input 70-450V or AC input single phase 220V ; Output three phase 220VAC						
PV150A-2S-0.4B	2.5	10.6	70-450	0.6	360-430	0.4
PV150A-2S-0.7B	4.2	10.6	70-450	1	360-430	0.75
PV150A-2S-1.5B	7.5	10.6	70-450	2	360-430	1.5
PV150A-2S-2.2B	9.5	10.6	70-450	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	2.5	10.6	230-800	1	600-750	0.75
PV150A-4T-1.5B	4.2	10.6	230-800	2	600-750	1.5
PV150A-4T-2.2B	5.5	10.6	230-800	2.9	600-750	2.2
PV150A-4T-4.0B	9.5	10.6	230-800	5.2	550-750	4
PV500-4T-4.0B	9.5	10.6	230-800	5.2	600-750	4
PV500-4T-5.5B	13	21.1	230-800	7.2	600-750	5.5
PV500-4T-7.5B	17	21.1	230-800	9.8	600-750	7.5
PV500-4T-011B	25	31.7	230-800	14.3	600-750	11
PV500-4T-015B	32	42.2	230-800	19.5	600-750	15
PV500-4T-018B	37	52.8	230-800	24.1	600-750	18.5
PV500-4T-022B	45	63.4	230-800	28.6	600-750	22
PV500-4T-030B	60	95	230-800	39	600-750	30
PV500-4T-037	75	116.2	230-800	48.1	600-750	37
PV500-4T-045	91	137.2	230-800	58.5	600-750	45
PV500-4T-055	112	169.0	230-800	71.5	600-750	55
PV500-4T-075	150	232.3	230-800	97.5	600-750	75
PV500-4T-090	176	274.6	230-800	117	600-750	90
PV500-4T-110	210	337.9	230-800	143	600-750	110
PV500-4T-132	253	401.3	230-800	171.6	600-750	132
PV500-4T-160	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

Optional Accessories

LCD Keypad

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



LED Keypad



LCD Keypad

Output Reactor

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



GPRS Module

All models can be configured with GPRS module for real-time remote monitoring and operation in APP&WEB



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