

# PV150A&500 Series Solar Pump Inverter



## 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)

## 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

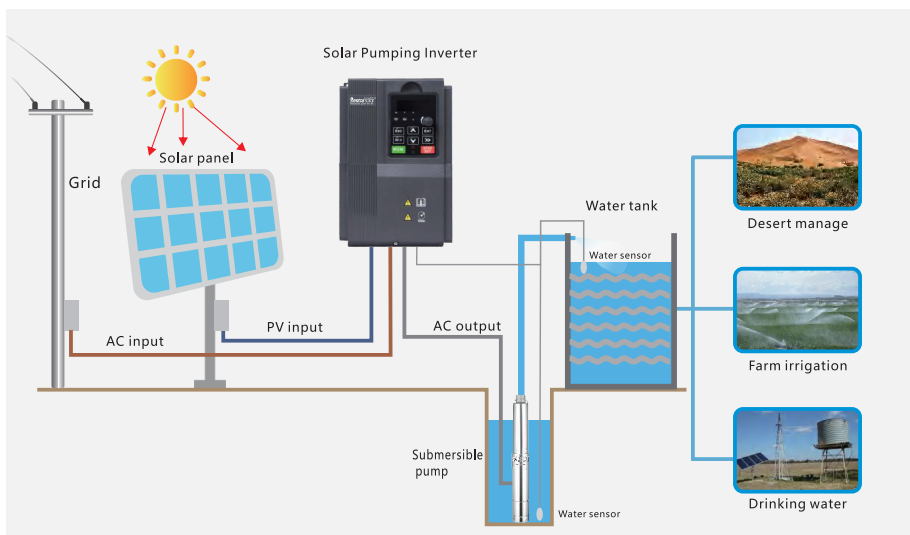


### GPRS Module

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



## Solar Pumping System Diagram



## 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

