

SPV—Series

GPRS Remote Control

- Built-in GPRS module for remote monitoring and operation in WEB

Compatible with power DC and AC input

- DC:Solar power
- AC:On-grid power input or generator power
- Standard configuration includes auto switch between DC and AC function

Rich protection functions

- Built-in diode in DC side
- With lightning protection, overvoltage, undervoltage, overcurrent, overload protection function, etc

IP Rating

- IP54.

Models No.	Solar Array Power Recommended (kWp)	Max input DC Current (A)	Output Current (A)	Adaptive Motor (kW)
SPV200 - 4T-0.7B	1.1	4.5	2.5	0.75
SPV200 - 4T- 1.5B	2.25	7.5	4.2	1.5
SPV200 - 4T-2.2B	3.3	10	5.5	2.2
SPV200 - 4T-4.0B	6	18	9.5	3.7、 4
SPV200 - 4T-5.5B	8.3	20	13	5.5



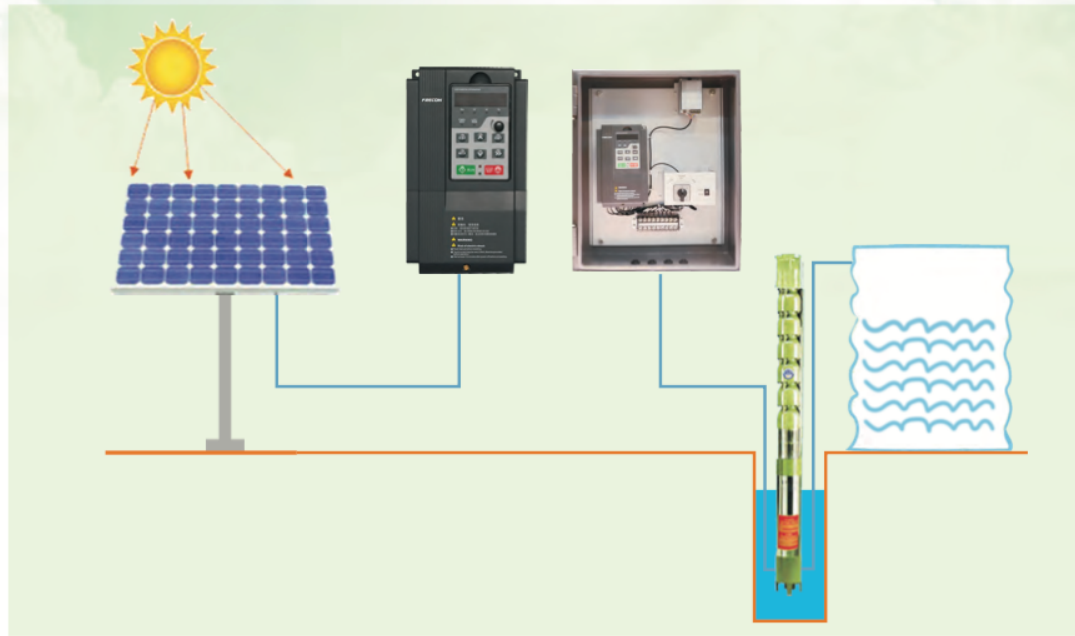
Solar Pumping Inverter



FRECON ELECTRIC (SHENZHEN) CO.,LTD.



Operating Principle



PV—Series

Power Range

- 0.2-132KW

Advanced MPPT

- Efficiency ≥ 99%

Compatible with power DC and AC input

- DC: Solar power
- AC: On-grid power input or generator power
- Optional for Auto switch between DC and AC function

Operation without battery

- Environmentally-friendly, Economic

Large water flow

- Output maximum water in same condition

Fitted pump and motor types

- Single-phase 220, three-phase 220V/380 pump or motors

Optional DC voltage boosting module

- Inverters that up to 2.2KW can be configured with DC voltage boosting module to meet the requirements of low-voltage applications. This module can reduce the number of solar panels to save cost.

Recording functions

- Total power generated (kW·h)
- Total water flow (m³)
- Total operating time (H)

Dormancy and wake-up functions

- It can enter to sleep mode automatically when the intensity of sunlight is weak (e.g. the sunset.), and it can exit the sleep mode when the intensity of sunlight is becoming strong as well (e.g. the sun rise.)

Water level control

- Pump dry run protection
- Tank water level control



220V output inverter models and technical parameters

Models No.	Solar Array Power Recommended(kwp)	Max input DC Current(A)	Output Current(A)	Adaptive Motor (KW)
PV100 - 2S - 0.2B	0.35	2.5	1.6	0.18 、 0.2 、 0.25
PV100 - 2S - 0.4B	0.6	4.5	2.5	0.37 、 0.4
PV100 - 2S - 0.7B	1.1	7.5	4.2	0.55 、 0.75
PV100 - 2S - 1.5B	2.25	10	7.5	1.5
PV100 - 2S - 2.2B	3.3	18	9.5	2.2
Max Input DC Voltage		450VDC		
Operating Voltage Range		120 ~ 450VDC		
Recommended Solar panel voltage (Voc)		300~370VDC		
AC Input Voltage		1PH 220V(-15% ~20%)		
Rated Output Voltage		3PH 220V /1PH 220V		
Output Frequency		0-600.00Hz(Default 0-50.00Hz)		
Built-in Protection		Overcurrent, Overvoltage, Phase lose, Overload, Undervoltage, Short circuit, Overheat, Pumps dry run, Dormancy or wake up, etc.		

Three-phase 380V output inverter model and technical parameters

Models No.	Solar Array Power Recommended(kwp)	Max input DC Current(A)	Output Current(A)	Adaptive Motor (KW)
PV100-4T-0.7B	1.1	4.5	2.5	0.55 、 0.75
PV100-4T-1.5B	2.25	7.5	4.2	1.5
PV100-4T-2.2B	3.3	10	5.5	2.2
PV200-4T-0.7B	1.1	4.5	2.5	0.55 、 0.75
PV200-4T-1.5B	2.25	7.5	4.2	1.5
PV200-4T-2.2B	3.3	10	5.5	2.2
PV200-4T-4.0B	6	18	9.5	3.7 、 4
PV200-4T-5.5B	8.3	20	13	5.5
PV200-4T-7.5B	11	30	17	7.5
PV200-4T-011B	16	40	25	11
PV200-4T-015B	22	50	32	15
PV200-4T-018B	25.9	60	37	18.5
PV200-4T-022B	33	80	45	22
PV200-4T-030B	36	100	60	30
PV200-4T-037	44.4	135	75	37
Max Input DC Voltage		800VDC		
Operating Voltage Range		250~800VDC		
Recommended Solar panel voltage (Voc)		500~700VDC		
AC Input Voltage		3PH 380V(-15% ~30%)		
Rated Output Voltage		3PH 380V		
Output Frequency		0-600.00Hz(Default 0-50.00Hz)		
Built-in Protection		Overcurrent, Overvoltage, Phase lose, Overload, Undervoltage, Short circuit, Overheat, Pumps dry run, Dormancy or wake up, etc.		