



SPRING Series Solar Pumping Inverter

- Solar Pumping System uses the solar power which is one of green energy and it drives the pump directly after the conversion of the inverter. The system requires no external battery, stores waters instead of electricity and then drives the AC pump. The system is economical, saving-energy and clean. It can be applied to many occasions such as people and animals drinking water in remote areas, farmland irrigation, desertification control and city landscape water use etc.
- SPRING series Solar Pumping Inverter from JFY company is dedicated to Solar Pumping System and it can be used for various application scenario. The Solar Pumping Inverter controls and regulates the system operation, converts the DC power from PV array to AC power and then drives AC pumps. It can adjust the output frequency real-time according to the irradiation change and fulfill maximum power point tracking(MPPT).

Product Features

- Designed dedicate for solar pump, and compatible with various motor type; have excellent performance;
- IP 65 protection level, inverter integrates the combiner box which contains the PV dedicated DC switch, SPD, fuse and other optional accessories;
- Natural cooling style without fans, IP65 high protection level guarantee inverter to be applied under all kinds of outdoor strict environment;
- Using advanced dynamic VI MPPT technique and optimized sine PWM control technique; fast respond and good operating stability;
- Main circuit adopts intelligent power module, high reliability, conversion efficiency reach to 98%;
- Advanced IGBT module, the high and low water position detection control circuit optional;
- Whole course automatic running; no need manual duty; the pump speed range can be set freely according to the system conditions so that guarantee the running time as long as possible;
- The inverter outer casing is solid and durable, compact size, nice appearance; friendly UI, user can check the real time info and historical info via the LCD display located in the front board; can store the running data up to 8 years;
- Plenty of communication interface, such as RS485/CAN/GPRS(optional); the running and status can be checked remotely;
- Inverter has perfect running protection mechanism, such as output short-circuit protection, IGBT over-current protection, input over/under voltage protection, overload protection, module over-temp protection, grounding protection and so on;
- Inverter allows using grid or diesel generator as backup power supply, 24-hour running.

Application Scenario

Farmland irrigation



Desertification control



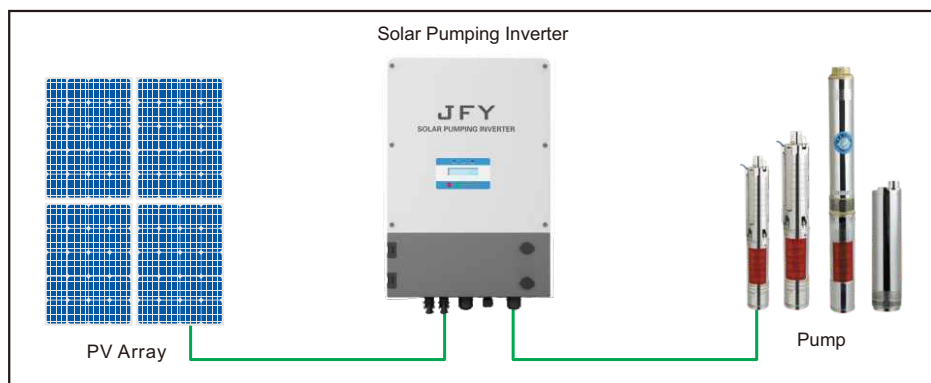
Animal drinking water



City landscape water use



Solar Pumping System Diagram



JFY Solar Pumping Inverter Series & Technical Parameter

Inverter Model	MAX Input String Number	Start Voltage (Vdc)	MAX DC Input Voltage (Vdc)	Recomm. MPPT Voltage Range (Vdc)	Rated Output Power (W)	MAX Output Current (A)	Output Frequency (Hz)	Output Voltage (Vac)	Inverter's Input Source	Protection Level	Weight (kg)	Pack Size (mm)		
												Length	Width	Height
SPRING 400SL	1	80	450	100~400	400	4	0~50/60	220V Single Phase	PV Array	IP65	5	405	297	147
SPRING 400SLA	1	80	450	100~400	400	4	0~50/60	220V Single Phase	PV Array and Utility Grid/AC Power Supply	IP65	5	405	297	147
SPRING 750SL	1	120	450	150~400	750	6.3	0~50/60	220V Single Phase	PV Array	IP65	8	405	297	147
SPRING 750SLA	1	120	450	150~400	750	6.3	0~50/60	220V Single Phase	PV Array and Utility Grid/AC Power Supply	IP65	8	405	297	147
SPRING 1100SL	1	120	450	150~400	1100	8.6	0~50/60	220V Single Phase	PV Array	IP65	8	405	297	147
SPRING 1100SLA	1	120	450	150~400	1100	8.6	0~50/60	220V Single Phase	PV Array and Utility Grid/AC Power Supply	IP65	8	405	297	147
SPRING 1500SL	1	120	450	200~400	1500	10	0~50/60	220V Single Phase	PV Array	IP65	10	405	297	147
SPRING 1500SLA	1	120	450	200~400	1500	10	0~50/60	220V Single Phase	PV Array and Utility Grid/AC Power Supply	IP65	10	405	297	147
SPRING 2200SL	1	200	450	280~400	2200	14	0~50/60	220V Single Phase	PV Array	IP65	10	405	297	147
SPRING 2200SLA	1	200	450	280~400	2200	14	0~50/60	220V Single Phase	PV Array and Utility Grid/AC Power Supply	IP65	10	405	297	147
SPRING 400L	1	80	450	100~400	400	3	0~50/60	220V Triphase	PV Array	IP65	5	405	297	147
SPRING 750L	1	120	450	150~400	750	5	0~50/60	220V Triphase	PV Array	IP65	8	405	297	147
SPRING 1100L	1	120	450	150~400	1100	6	0~50/60	220V Triphase	PV Array	IP65	8	405	297	147
SPRING 1500L	1	120	450	200~400	1500	7	0~50/60	220V Triphase	PV Array	IP65	10	405	297	147
SPRING 2200L	1	200	450	280~400	2200	11	0~50/60	220V Triphase	PV Array	IP65	10	405	297	147
SPRING 3000	2	250	900	500~680	3000	8	0~50/60	380V Triphase	PV Array	IP65	14	478	325	155
SPRING 4000	2	250	900	500~680	4000	10	0~50/60	380V Triphase	PV Array	IP65	14	478	325	155
SPRING 5500	2	250	900	500~680	5500	13	0~50/60	380V Triphase	PV Array	IP65	15	478	325	155
SPRING 7500	3	250	900	500~680	7500	18	0~50/60	380V Triphase	PV Array	IP65	15	563	346	148
SPRING 9200	3	250	900	500~680	9200	21	0~50/60	380V Triphase	PV Array	IP65	15	563	346	148
SPRING 11K	3	250	900	500~680	11000	24	0~50/60	380V Triphase	PV Array	IP65	15	563	346	148
SPRING 13K	6	250	900	500~680	13000	28	0~50/60	380V Triphase	PV Array	IP65	16	533	405	190
SPRING 15K	6	250	900	500~680	15000	30	0~50/60	380V Triphase	PV Array	IP65	16	533	405	190
SPRING 18K5	6	250	900	500~680	18500	39	0~50/60	380V Triphase	PV Array	IP65	22	533	405	190
SPRING 22K	6	250	900	500~680	22000	45	0~50/60	380V Triphase	PV Array	IP65	22	533	405	190
SPRING 26K	1 (via combiner box)	250	900	500~680	26000	54	0~50/60	380V Triphase	PV Array	IP54	30	533	405	190
SPRING 30K	1 (via combiner box)	250	900	500~680	30000	60	0~50/60	380V Triphase	PV Array	IP54	30	533	405	190
SPRING 37K	1 (via combiner box)	250	900	500~680	37000	75	0~50/60	380V Triphase	PV Array	IP54	30	533	405	190
SPRING 45K	1 (via combiner box)	250	900	500~680	45000	91	0~50/60	380V Triphase	PV Array	IP54	38	600	465	350
SPRING 55K	1 (via combiner box)	250	900	500~680	55000	112	0~50/60	380V Triphase	PV Array	IP54	38	600	465	350
SPRING 75K	1 (via combiner box)	250	900	500~680	75000	162	0~50/60	380V Triphase	PV Array	IP54	50	626	508	363

*AC grid voltage range and frequency range depend on local standards.



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Inverter Model:

SPRING 2200SLA

