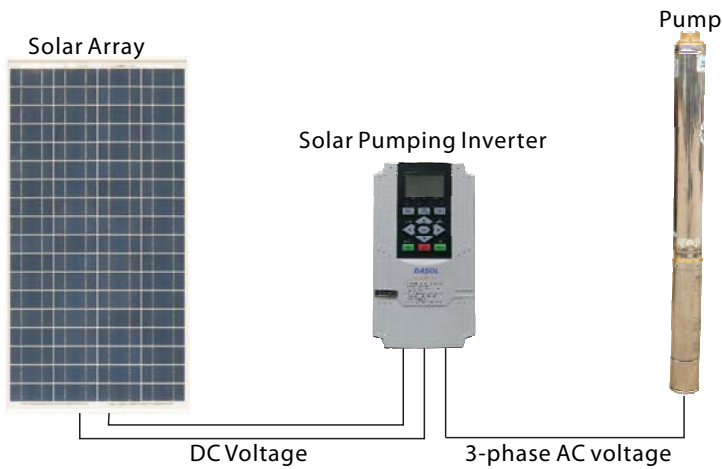


Solar Pumping System



DASOL Solar Pumping System can be applied to daily use (ground water), agricultural irrigation, forestry irrigation, desert control, pasture animal husbandry, water supply for islands, wastewater treatment engineering, and so on. DASOL solar pumping System is dispensed with energy storing devices, and stores water instead of electricity. It improves the reliability of the device, at the same time, it lowers the construction and maintenance costs of the system dramatically.

In recent years, with the promotion of the utilization of new energy resources, Solar Pumping System is more and more used in municipal engineering, city centre squares, parks, tourist sites, resorts and hotels, the landscapes and fountain systems in the residential areas.



Pumps

The pump driven by a 3-phase induction motor, draws water from wells or rivers, then pours water into the reservoir or storage tank. Or directly to irrigation systems and fountain systems. Based on the requirements and installation conditions, different types of pumps can be used.

In solar pumping systems, pump selection is essential, which directly affects the economy and stability of the whole system. Submersible pumps which have widely application and speed-regulating range, are common in solar pumping systems, it can increase working time and water flow rate of the solar pumping system. If the users require low head and high water flow, can choose self-priming pump, while they require high head and low can be chosen submersible pumps.



Solar Pumping Inverter

Solar pumping inverter converts DC voltage from the solar array into AC current to drive the pump. With the function of MPPT (maximum power point tracking), it regulates the output frequency according to irradiation in real time to achieve the maximum power.

- To drive pumps equipped with 3-phase induction motors.
- Adopting the dynamic VI maximum power point tracking(MPPT) control method optimized SPWM. Fast response speed and stable operation.
- Fully automatic operation. It can freely set speed range of pump based on the actual situation of the system, and it can store operation data for 8 years.
- The main circuit uses intelligent power module which is high reliability and conversion efficiency up to 98%.
- Have full electrical protection. The users can select water-level detecting and control circuit to prevent overflow and dry extraction.
- New design of anodized aluminum case. Ambient temperature: $-25^{\circ}\text{C} \sim +60^{\circ}\text{C}$.

DASOL

DASOL Energy S&T Co.,Ltd.
The Health Industrial Park, Anji, Zhejiang 313300, China
www.dasol.cn

Pump Specification

Rated Power (KW)	Input Voltage (V)	Stainless Steel Series		Discharge Flange Series	
		Head (m)	Capacity(m ³)	Head (m)	Capacity(m ³)
0.1	220	6	6		
0.15	220	5.5	15		
0.37	220	13-69	3-0.3		
0.4	220	9	22		
0.55	380	16-102	7-0.3		
0.75	380	7-119	16-0.3		
1.1	380	11-140	16-0.6		
1.5	380	11-192	20-0.6		
2.2	380	19-244	20-0.3		
3	380	9-313	38-1	6	50
4	380	12-370	38-1	12-78	63-10
5.5	380	21-362	38-2	18-100	50-10
7.5	380	26-381	38-1	18-128	63-10
9.2	380	32-242	38-6	18-150	100-10
11	380	41-276	38-6	33-178	80-10
13	380	47-328	38-6	42-200	63-10
15	380	53-363	38-6	27-300	100-10
18.5	380	59-345	38-12	36-182	100-20
22	380	74-384	38-12	45-143	100-32
26	380	148-275	38-12	54-169	100-32
30	380	168-320	38-12	63-195	100-32
37	380	183-380	38-12	72-247	100-32
45	380			90-299	100-32

Solar Pumping Inverter Specification

MODLE	Max. Drive Motor Power (KW)	Rated Output Voltage(VAC)	Max. input Voltage(VDC)	MPPT Voltage range (VDC)	Recommend input work Voltage(VDC)	Max. Input Current(A)	Recommend PV Array Power(KWp)	Output Frequency(Hz)
SPI700L	0.7	3PH 220	450	250-350	310	10	1.1	0~50/60
SPI1100L	1.1	3PH 220	450	250-350	310	12	1.65	0~50/60
SPI1500L	1.5	3PH 220	450	250-350	310	12	2.25	0~50/60
SPI2200L	2.2	3PH 220	450	250-350	310	20	3.3	0~50/60
SPI3KH	3	3PH 380/410/440	800	450-600	540/560/580	10	4.5	0~50/60
SPI4KH	5	3PH 380/410/440	800	450-600	540/560/580	15	6	0~50/60
SPI5KH	5.5	3PH 380/410/440	800	450-600	540/560/580	20	8.3	0~50/60
SPI7KH	7.5	3PH 380/410/440	800	450-600	540/560/580	30	11	0~50/60
SPI9KH	9	3PH 380/410/440	800	450-600	540/560/580	35	13	0~50/60
SPI11KH	11	3PH 380/410/440	800	450-600	540/560/580	40	16	0~50/60
SPI15KH	15	3PH 380/410/440	800	450-600	540/560/580	50	22	0~50/60
SPI22KH	22	3PH 380/410/440	800	450-600	540/560/580	80	33	0~50/60
SPI30KH	30	3PH 380/410/440	800	450-600	540/560/580	100	45	0~50/60
SPI37KH	37	3PH 380/410/440	800	450-600	540/560/580	150	55	0~50/60
SPI45KH	45	3PH 380/410/440	800	450-600	540/560/580	150	67	0~50/60
SPI55KH	55	3PH 380/410/440	800	450-600	540/560/580	200	82	0~50/60
SPI75KH	75	3PH 380/410/440	800	450-600	540/560/580	200	112	0~50/60
SPI110KH	110	3PH 380/410/440	800	450-600	540/560/580	300	165	0~50/60
SPI132KH	132	3PH 380/410/440	800	450-600	540/560/580	360	198	0~50/60