

Solar Surface Pumps

Product Introduction

Solartech Solar Surface Pump consists of a solar pumping inverter and an Surface pump. Solar pumping inverter drives the pump by converting DC power produced by solar array into AC power and adopts patented dynamic VI maximum power tracking (MPPT) algorithm to adjust output frequency according to solar radiation in real time. It has high reliability and an up to 98% conversion efficiency.



Product Features

Higher Efficiency

- Compatible with submersible pumps, surface pumps, swimming pool pumps and other pumps using three-phase asynchronous motors, easy to install and relocate;
- High reliability due to the uses of intelligent power modules (IPM) in main circuit, up to 98% conversion efficiency of the inverter;
- Patented dynamic VI maximum power tracking (MPPT) algorithm to achieve fast response, good stability and 99% MPPT efficiency;

Convenient

- Easy to install and use without manual debugging;
- Full protections and high reliability;
- Intake and use water without requirements of grid power or water channel;
- Optional advanced functions: encryption for installment payment, analog input control, etc;

Safe

- Good sealing, high protection grade, strong adaptability to wide range of ambient temperature and high humidity, suitable for various harsh outdoor environments;
- Using high standard components, wide input voltage range, built-in boost circuits for low power models, flexible options for solar array configuration;
- Supporting soft start of pump, full motor protections, optional water level switch to prevent overflow and dry running;
- Solar combiner function, which supports multiple DC input strings and each string is equipped with anti-reverse circuit;
- Intelligent recognition of input voltage, automatic operation without manual debugging of voltage parameters;

Solar Surface Pumps Specifications

Solar Pump Model	Pump Spec.	Pump Power	Recommended Water Head	Water Flow	Inlet Dia.	Outlet Dia.	Inverter Power	Recommended MPP Voltage
SPS61K1060S	3PH 220V 50Hz	1.1 kW	42 - 24 m	6 - 8.5 m ³ /h	R1 1/4	R1 1/4	1.5 kW	280-360V
SPS61K1060S-3								150-360V
SPS62K2060S	3PH 380V 50Hz	2.2 kW	87 - 50 m	6 - 8.5 m ³ /h	R1 1/4	R1 1/4	3.7 kW	500-600V
SPS62K2060S-3								500-700V
SPS63K0060S	3PH 380V 50Hz	3 kW	116 - 66 m	6 - 8.5 m ³ /h	R1 1/4	R1 1/4	3.7 kW	500-600V
SPS63K0060S-3								500-700V
SPS64K0060S	3PH 380V 50Hz	4 kW	156 - 90 m	6 - 8.5 m ³ /h	R1 1/4	R1 1/4	5.5 kW	500-600V
SPS64K0060S-3								500-700V
SPS81K5100	3PH 220V 50Hz	1.5 kW	33 - 21 m	10 - 14 m ³ /h	50 mm	50 mm	2.2 kW	280-360V
SPS81K5100-3								150-360V
SPS84K0200	3PH 380V 50Hz	4 kW	30 - 23 m	24 - 29 m ³ /h	50 mm	50 mm	5.5 kW	500-600V
SPS84K0200-3								500-700V
SPS87K5200	3PH 380V 50Hz	7.5 kW	70 - 57 m	24 - 29 m ³ /h	50 mm	50 mm	11 kW	500-600V
SPS87K5200-3								500-700V
SPS811K200	3PH 380V 50Hz	11 kW	102 - 84 m	24 - 29 m ³ /h	50 mm	50 mm	15 kW	500-600V
SPS811K200-3								500-700V
SPS815K200	3PH 380V 50Hz	15 kW	144 - 117 m	24 - 29 m ³ /h	50 mm	50 mm	18.5 kW	500-600V
SPS815K200-3								500-700V
SPS104K0400	3PH 380V 50Hz	4 kW	20 - 16 m	42 - 55 m ³ /h	80 mm	80 mm	5.5 kW	500-600V
SPS104K0400-3								500-700V
SPS107K5400	3PH 380V 50Hz	7.5 kW	39 - 31 m	42 - 55 m ³ /h	80 mm	80 mm	11 kW	500-600V
SPS107K5400-3								500-700V
SPS1015K400	3PH 380V 50Hz	15 kW	75 - 62 m	45 - 55 m ³ /h	80 mm	80 mm	18.5 kW	500-600V
SPS1015K400-3								500-700V
SPS1022K400	3PH 380V 50Hz	22 kW	115 - 93 m	45 - 55 m ³ /h	80 mm	80 mm	22 kW	500-700V
SPS1030K400	3PH 380V 50Hz	30 kW	140 - 115 m	45 - 55 m ³ /h	80 mm	80 mm	30 kW	500-700V
SPS1015K750	3PH 380V 50Hz	15 kW	41 - 30 m	85 - 110 m ³ /h	100 mm	100 mm	18.5 kW	500-600V
SPS1015K750-3								500-700V

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SPS1030K750	3PH 380V 50Hz	30 kW	87 - 66 m	85 - 110 m ³ /h	100 mm	100 mm	30 kW	500-700V
SPS1045K750	3PH 380V 50Hz	45 kW	119 - 86 m	85 - 110 m ³ /h	100 mm	100 mm	45 kW	500-700V
SPS1411K900	3PH 380V 50Hz	11 kW	17 - 14 m	130 - 150 m ³ /h	125 mm	125 mm	15 kW	500-600V
SPS1411K900-3								500-700V
SPS1418K1500	3PH 380V 50Hz	18.5 kW	19 - 15 m	210 - 240 m ³ /h	150 mm	150 mm	18.5 kW	500-600V
SPS1418K1500-3								500-700V
SPS1437K1500	3PH 380V 50Hz	37 kW	39 - 32m	210 - 240 m ³ /h	150 mm	150 mm	37 kW	500-700V
SPS1475K1500	3PH 380V 50Hz	75 kW	74 - 67 m	220 - 240 m ³ /h	150 mm	150 mm	75 kW	500-700V

Remark: more product models can be provided according to actual requirements.