

# SP100

## Solar Pumping Inverter



## SP100 series solar pump controller—— IP65 solution for outdoor use.

### System diagram



#### ■ Hybrid

SP100 series solar water pump controller is compatible with AC and DC input, and DC energy has the highest priority. When the DC energy is insufficient to meet the operation of the water pump, the system will automatically blend AC energy with PV energy.

#### ■ Built-in confluence

SP100 series solar water pump controller is configured with built-in confluence function. It saves the cost of configuring combiner box for users and has built-in fuse to prevent damage

caused by component circulation.

#### ■ Built-in boost module

SP100 series solar water pump controller has a built-in boost module below 5.5kw. The module configuration only needs to meet the power requirements, which can reduce the number of solar panels and save the cost.

#### ■ Intelligent IOT function

SP100 can configure built-in GPRS and WIFI module. User can realize real-time operation parameters collection, remote control, data storage and obtain professional data analysis

through IOT module..

#### ■ Anti-fake and anti-theft

SP100 has a physical anti-theft lock, and provides the electronic fence function after configuring the IOT module.

#### ■ High voltage withstand design

High voltage withstand design, up to 900V.

#### ■ Powerful function

MPPT efficiency can reach 99.9%, supporting synchronous motor, asynchronous motor, BLDC motor and single-phase motor. And support flow calculation function

## Model Description

**SP100-15-4-RTS-L-4G-IO-6-S**

①      ②    ③      ④                      ⑤    ⑥

Field identification	Sign	Detailed description of the sign	Detailed content
Product abbreviation	①	Product abbreviation	Product series: <b>SP100</b> Product model: SP100 - 15 - 4 - 6-S
Rated power	②	Power range + Load type	15: 15kW
Voltage degree	③	Voltage degree	-SS2: AC 1PH input/output 220V -S2: AC 1PH input 220V -2: AC 3PH input 220V -DS2: DC input only, AC 1PH output 220V -D2: DC input only, AC 3PH output 220V (DC450V) -D4: DC input only, AC 3PH output 380V (DC900V) -4:AC 3PH input/output 380V (DC900V)
Product management number (Omissible)	④	Options	<b>Internal accessory:</b> default: Nothing    -R: reverse polarity protection    -T: Boost module    -S: DC switch -GP: GPRS    -4G: 4G SIM card <b>External accessory:</b> Default: Nothing <b>-L: Anti-theft</b>

			<b>Expansion card:</b> Default: Nothing -IO: IO card
Structural identification (Omissible)	⑤	Cooling method	<b>Cooling method:</b> default: Fan cooling and natural cooling W: water cooling
		Install method	<b>Install method:</b> Default: Wall mounting
		Protection level	<b>Protection Level:</b> 0: IP00 6: IP65
production configuration (Omissible)	⑥	production configuration	<b>S:Standard E: Economy P: Profession</b>

## Production configuration

production configuration	Display	AC input	DC switch	Connection	Built-in IOT	reverse polarity protection	Boost module	COM port
<b>E</b>	Pilot lamp + Run key	×	×	Wiring type	×	×	×	×
<b>S</b>	2 lines LCD screen	×	×	Wiring type	×	×	×	×
<b>P</b>	4 lines LCD screen	√	√	Plug-in type	√	√	√	√

## Product rated specification parameters

model	Rated power	Rated input current	Rated output current
SP100-0R4-SS2-6-S	0.4	6.5	4.2
SP100-0R7-SS2-6-S	0.75	9.3	7.2
SP100-1R5-SS2-6-S	1.5	15.7	10.2
SP100-2R2-SS2-6-S	2.2	24	14
SP100-004-SS2-6-S	4	40	32
SP100-R75-S2-6-S	0.75	7.5	7.2
SP100-1R5-S2-6-S	1.5	15	10.2
SP100-2R2-S2-6-S	2.2	15	14
SP100-2R2-2-6-S	2.2	15	10
SP100-R75-4-6-S	0.75	7.5	2.5
SP100-1R5-4-6-S	1.5	7.5	4.2
SP100-2R2-4-6-S	2.2	7.5	5.5
SP100-004-2-6-S	4	20	16
SP100-004-4-6-S	4	10	9.5
SP100-5R5-2-6-S	5.5	20	20
SP100-5R5-4-6-S	5.5	15	14
SP100-7R5-4-6-S	7.5	20	18.5
SP100-004-S2-6-S	4	30	32
SP100-7R5-2-6-S	7.5	30	30
SP100-011-4-6-S	11	22	25
SP100-015-4-6-S	15	30	32
SP100-018-4-6-S	18.5	37	38
SP100-022-4-6-S	22	44	45
SP100-030-4-6-S	30	60	60
SP100-037-4-6-S	37	74	75
SP100-045-4-6-S	45	90	92
SP100-055-4-6-S	55	110	115

## Dimensions

