

# SP600S

## Optimizer



### MORE PRODUCTION

- Up to 30 % increased power generation
- Up to 0.5 % increased system efficiency with smart Shade-Proof technology



### FLEXIBLE DESIGN AND EASY TO INSTALL

- Patented structure to save installation time up to 45 %
- Optimize rooftops with different orientations and tilt angles to increase solar systems capacity



### SAFE AND RELIABLE

- Rapid shutdown to 30 V within 20 seconds
- IP68 protection and C5 anti-corrosion



### EFFICIENT O&M

- Rapid data refresh in 10 seconds
- Module-level IV scanning and diagnosis \*

NEW



Type designation	SP600S
<b>Input</b>	
Recommend input power	450 W - 695 W **
Max. input voltage	80 V
MPPT voltage range	8 V - 80 V
Max. DC short-circuit current ( I <sub>sc</sub> )	20 A
Overtoltage category	II
<b>Output</b>	
Rated output power	600 W
Max. output voltage	80 V
Max. output current	16 A
Bypass working mode	Yes
Safety output voltage per optimizer	1 V
<b>Efficiency</b>	
Max. efficiency	99.5 %
Weighted efficiency	99.0 %
<b>General data</b>	
Dimensions ( W * H * D )	86 mm * 108 mm * 25 mm
Weight ( including cables )	0.5 kg
Degree of protection	IP 68
Allowable relative humidity range ( non-condensing )	0 % - 100 %
Operating ambient temperature range	-40 °C - 85 °C
Max. operating altitude	4000 m
Mounting method	Push-in or bolt installation
Communication	PLC ( < 350 m )
PV input / output connector	MC4 or MC4 Compatible
PV wire length ( short version )	Input : 150 mm (PV+) 150 mm (PV-) Output : 1200 mm
PV wire length ( long version )	Input : 600 mm (PV+) 150 mm (PV-) Output : 1600 mm
Standard compliance	IEC61000-6-2, IEC61000-6-3, IEC62109-1 (class II safety) SG2.0 / 2.5 / 3.0RS-S ***
Compatible products	SG3.0 / 3.6 / 4.0 / 5.0 / 6.0 / 8.0 / 9.0 / 10RS *** SH3.0 / 3.6 / 4.0 / 5.0 / 6.0RS *** SG5.0 / 6.0 / 7.0 / 8.0 / 10 / 12 / 15 / 17 / 20RT-P2 SG25 / 30 / 33 / 36 / 40 / 50 / 125CX-P2 ***

\* Currently 4 kinds of typical diagnosis at module level are available.

\*\* The rated power of modules under standard test conditions (STC) is recommended to be within 5% higher than the rated input power of the optimizer. If the rated power of modules under standard test conditions (STC) is higher than 630 W, the DC/AC ratio should be higher than 1.2.

\*\*\* Please consult Sungrow before placing an order on optimizers and compatible inverters.

