

SP600S

Optimizer



MORE PRODUCTION

- Up to 30 % increased power generation
- Overcome potential losses on a module level with 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 system capacity



SAFE AND RELIABLE

- Rapid shutdown to 30V 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
Input	
Rated input power	600 W
Max. input voltage	80 V
MPPT voltage range	8 V - 80 V
Max. DC short-circuit current (I _{sc})	20 A
Overvoltage category	II
Output	
Max. output voltage	80 V
Max. output current	16 A
Bypass working mode	Yes
Safety output voltage per optimizer	1 V
Efficiency	
Max. efficiency	99.5 %
Weighted efficiency	99 %
General Data	
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 and bolt installation
Communication	PLC (< 300 m)
Input / output connector	MC4 or MC4 Compatible
Input Wire Length	150 mm (PV+) / 150mm (PV-) 150 mm (PV+) / 900mm (PV-) (Optional)
Output Wire Length	1200 mm
Standard compliance	IEC61000-6-2, IEC61000-6-3, IEC62109-1 (class II safety)
Compatible products **	SG2.0 / 2.5 / 3.0RS-S ** SG3.0 / 3.6 / 4.0 / 5.0 / 6.0RS ** SH3.0 / 3.6 / 4.0 / 5.0 / 6.0RS ** SG25 / 30 / 33 / 36 / 40 / 50CX-P2**

* Currently 4 kinds of module-level diagnosis are available.

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

