

## S6-GR1P(4-5)K-S

# Solis Single Phase Inverters

### Features:

- String current up to 16A
- Integrated with zero export power control function
- Light weight with compact design for easy installation
- 2 MPPT design with precise MPPT algorithm

### Models:

S6-GR1P4K-S / S6-GR1P4.6K-S

S6-GR1P5K-S



## DATASHEET

## S6-GR1P(4-5)K-S

Models	4K	4.6K	5K
<b>Input DC</b>			
Recommended max. PV power	6 kW	6.9 kW	7.5 kW
Max. input voltage	550 V		
Rated voltage	330 V		
Start-up voltage	100 V		
MPPT voltage range	90-550 V		
Max. input current	16 A / 16 A		
Max. short circuit current	22 A / 22 A		
MPPT number/Max. input strings number	2/2		
<b>Output AC</b>			
Rated output power	4 kW	4.6 kW	5 kW
Max. apparent output power	4 kVA	4.6 kVA	5 kVA
Max. output power	4 kW	4.6 kW	5 kW
Rated grid voltage	1/N/PE, 220 V / 230 V		
Rated grid frequency	50 Hz / 60 Hz		
Rated grid output current	18.2 A / 17.4 A	20.9 A / 20 A	22.7 A / 21.7 A
Max. output current	18.2 A	20.9 A	22.7 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)		
THDi	<3%		
DC injection current	<0.5% I <sub>n</sub>		
<b>Efficiency</b>			
Max. efficiency	97.6%		97.7%
EU efficiency	97.1%		97.1%
<b>Protection</b>			
DC reverse-polarity protection	Yes		
Short circuit protection	Yes		
Output over current protection	Yes		
Surge protection	Yes		
Grid monitoring	Yes		
Anti-islanding protection	Yes		
Temperature protection	Yes		
Integrated AFCI (DC arc-fault circuit protection)	Yes <sup>(1)</sup>		
Integrated DC switch	Yes		
<b>General Data</b>			
Dimensions (W*H*D)	330*371*161 mm		
Weight	8.9 kg		
Topology	Transformerless		
Self-consumption (night)	<1 W		
Operating ambient temperature range	-25 ~ +60°C		
Relative humidity	0-100%		
Ingress protection	IP66		
Noise emission (typical)	<20 dB(A)		
Cooling concept	Natural convection		
Max. operation altitude	4000 m		
Grid connection standard	IEC 61683, IEC 60068, IEC 61727, IEC 62116, EN 50530, IS 16169 / IS 16221(BIS)		
Safety/EMC standard	IEC 62109-1/-2, IEC 61000-6-2/-3		
<b>Features</b>			
DC connection	MC4 connector		
AC connection	Quick connection plug		
Display	LED + APP		
Communication	RS485, USB, Optional: S3-WiFi-ST, S3-GRPS-ST		

(1) Activation required.