

## S6-GR1P(1-3)K-MS

# Solis Mini Series Inverters

### Features:

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

### Models:

S6-GR1P1K-MS / S6-GR1P1.5K-MS

S6-GR1P2K-MS / S6-GR1P2.5K-MS

S6-GR1P3K-MS



## DATASHEET

## S6-GR1P(1-3)K-MS

Models	1K	1.5K	2K	2.5K	3K
<b>Input DC</b>					
Recommended max. PV power	1.5 kW	2.3 kW	3 kW	3.8 kW	4.5 kW
Max. input voltage	550 V				
Rated voltage	200 V		330 V		
Start-up voltage	60 V		80 V		
MPPT voltage range	50-500 V		70-500 V		
Max. input current	16 A				
Max. short circuit current	22 A				
MPPT number/Max. input strings number	1/1				
<b>Output AC</b>					
Rated output power	1 kW	1.5 kW	2 kW	2.5 kW	3 kW
Max. apparent output power	1 kVA	1.5 kVA	2 kVA	2.5 kVA	3 kVA
Max. output power	1 kW	1.5 kW	2 kW	2.5 kW	3 kW
Rated grid voltage	1/N/PE, 220 V / 230 V				
Rated grid frequency	50 Hz / 60 Hz				
Rated grid output current	4.5 A / 4.3 A	6.8 A / 6.5 A	9.1 A / 8.7 A	11.4 A / 10.9 A	13.6 A / 13.0 A
Max. output current	4.5 A	6.8 A	9.1 A	11.4 A	13.6 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)				
THDi	<3%				
THDi	<0.5% In				
<b>Efficiency</b>					
Max. efficiency	96.6%	96.6%	97.1%	97.1%	97.1%
EU efficiency	95.3%	95.4%	96.6%	96.7%	96.7%
<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)	310*360*160 mm				
Weight	6.8 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 61000-6-1/-2/-3/-4				
<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.