

## S6-GR1P(7-8)K02-NV-YD-HC

# Solis Single Phase Grid-Tied Inverters

### Features:

- Max. efficiency 97.7%
- String current up to 18A/32A
- Supports export power control
- AFCI protection, proactively reduces fire risk
- 24-hour load consumption monitoring
- Adaptive weak grid

### Models:

S6-GR1P7K02-NV-YD-HC

S6-GR1P8K02-NV-YD-HC



## DATASHEET

Models	7K	8K
<b>Input DC</b>		
Recommended max. PV power	10.5 kW	12 kW
Max. input voltage	550 V	
Rated voltage	330 V	
Start-up voltage	90 V	
MPPT voltage range	90 - 500 V	
Max. input current	18 A / 32 A	
Max. short circuit current	20 A / 40 A	
MPPT number / Max. input strings number	2 / 3	
<b>Output AC</b>		
Rated output power	7 kW	8 kW
Max. apparent output power	7 kVA	8 kVA
Max. output power	7 kW	8 kW
Rated grid voltage	1/N/PE, 220 V / 230 V	
Rated grid frequency	50 Hz / 60 Hz	
Rated grid output current	31.8 A / 30.4 A	36.4 A / 34.8 A
Max. output current	31.8 A	36.4 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)	
THDi	< 3%	
<b>Efficiency</b>		
Max. efficiency	97.7%	
EU efficiency	96.8%	
<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	
Multi peak scan	Yes	
Integrated AFCI 2.0	Optional	
Integrated DC switch	Yes	
<b>General Data</b>		
Dimensions (W × H × D)	310 × 550 × 180 mm	
Weight	13.2kg	
Topology	Transformerless	
Self-consumption (night)	< 1 W	
Operating ambient temperature range	-25 ~ +60°C	
Relative humidity	0 - 100%	
Ingress protection	IP66	
Noise emission (typical)	< 40 dB(A)	
Cooling concept	Natural cooling with internal fan	
Max. operation altitude	4000 m	
Grid connection standard	EN 50549-1, IEC 62116, IEC 61727, IEC60068, IEC 61683, EN 50530	
Safety / EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4	
<b>Features</b>		
DC connection	MC4 connector	
AC connection	Quick connection plug	
Display	LCD	
Communication	RS485, Optional: Wi-Fi, GPRS	