

S6-GR1P(2-3)K01-NV-YD

Solis Single Phase Grid-Tied Inverters

Features:

- 21A PV input for high-power solar panels
- 50V start-up for longer daily generation
- Optional DC & AC Type II SPD protection
- Optional AFCI 2.0 for enhanced safety
- CT/Meter 2-in-1 for flexible EPM setup
- IP66-rated for harsh environments

Models:

S6-GR1P2K01-NV-YD

S6-GR1P3K01-NV-YD



DATASHEET

Models	2K	3K
Input DC		
Recommended max. PV power	3 kW	4.5 kW
Max. input voltage	550 V	
Rated voltage	360 V	
Start-up voltage	50 V	
MPPT voltage range	40 - 500 V	
Max. input current	21 A	
Max. short circuit current	30 A	
MPPT number / Max. input strings number	1 / 1	
Output AC		
Rated output power	2 kW	3 kW
Max. apparent output power	2.2 kVA	3.3 kVA
Max. output power	2.2 kW	3.3 kW
Rated grid voltage	1/N/PE, 220 V / 230 V	
Rated grid frequency	50 Hz / 60 Hz	
Rated grid output current	9.1 A / 8.7 A	13.6 A / 13.0 A
Max. output current	10 A	15 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)	
THDi	< 3%	
Efficiency		
Max. efficiency	97.6%	
EU efficiency	97. 0%	
Protection		
DC reverse-polarity protection	Yes	
Short circuit protection	Yes	
Output over current protection	Yes	
Output over voltage protection	Yes	
Insulation resistance monitoring	Yes	
Residual current detection	Yes	
Surge protection	DC Type II / AC Type II (Optional)	
Grid monitoring	Yes	
Anti-islanding protection	Yes	
Temperature protection	Yes	
Strings monitoring	Yes	
I/V Curve scanning	Yes	
Multi peak scan	Yes	
Integrated AFCI 2.0	Optional	
Integrated DC switch	Optional	
General Data		
Dimensions (W × H × D)	310 × 210 × 139mm	
Weight	5.7 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)	< 30 dB(A)	
Cooling concept	Natural cooling	
Max. operation altitude	4000 m	
Grid connection standard	IEC 61727, IEC 62116, IEC 60068, IEC 61683, EN 50530, IS 16169 / IS 16221 / IS 17980(BIS)	
Safety / EMC standard	IEC/EN 62109-1/-2, IEC/EN IEC 61000-6-1/-2/-3/-4	
Features		
DC connection	MC4 connector	
AC connection	Quick connection plug	
Display	LCD	
Communication	Standard: RS485, Optional: S5-WiFi-ST	