

S5-GR3P(5-10)K-LV

Solis Three Phase Grid-Tied Inverters

Features:

- Max. efficiency 98.0%
- > 150% DC/AC ratio
- Supports export power control
- AFCI protection, proactively reduces fire risk
- 24-hour load consumption monitoring
- Adaptive weak grid
- IP66

Models:

S5-GR3P5K-LV

S5-GR3P6K-LV

S5-GR3P10K-LV



360° View



DATASHEET

S5-GR3P(5-10)K-LV

Models	5K	6K	10K
Input DC			
Recommended max. PV power	7.5 kW	9 kW	15 kW
Max. input voltage	1100 V		
Rated voltage	330 V		
Start-up voltage	180 V		
MPPT voltage range	160 - 500 V		
Max. input current	16 A / 16 A		32 A / 32 A
Max. short circuit current	20 A / 20 A		40 A / 40 A
MPPT number / Max. input strings number	2 / 2		2 / 4
Output AC			
Rated output power	5 kW	6 kW	10 kW
Max. apparent output power	5.5 kVA	6.6 kVA	11 kVA
Max. output power	5.5 kW	6.6 kW	11 kW
Rated grid voltage	3/(N)/PE, 208 V / 220 V / 240 V		
Rated grid frequency	50 Hz / 60 Hz		
Rated grid output current	13.1 A	15.7 A	26.2 A
Max. output current	14.4 A	16.7 A	28.8 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)		
THDi	< 2%		
Efficiency			
Max. efficiency	98.0%		
EU efficiency	97.5%		
Protection			
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		
General Data			
Dimensions (W × H × D)	310 × 563 × 219 mm		
Weight	17.6 kg	21.1 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)	< 60 dB(A)	
Cooling concept	Natural cooling	Intelligent fan-cooling	
Max. operation altitude	4000 m		
Grid connection standard	G99, VDE-AR-N 4105/VDE V 0124, EN 50549-1, VDE 0126/UTE C 15/VFR:2019, RD 1699/RD 244/UNE 206006/UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530		
Safety / EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4		
Features			
DC connection	MC4 connector		
AC connection	Quick connection plug		
Display	LCD		
Communication	RS485, Optional: Wi-Fi, GPRS		