

S5-GC(15-23)K-LV

Solis Three Phase Grid-Tied Inverters

Features:

- Max. efficiency 97.8%
- 3 MPPT design, suitable for multi-facing roof
- AFCI protection, proactively reduces fire risk
- Nighttime PID recovery function (optional)
- Intelligent string monitoring, smart I-V curve scan
- 24-hour load consumption monitoring
- IP66

Models:

S5-GC15K-LV

S5-GC20K-LV

S5-GC23K-LV



360° View

DATASHEET

S5-GC(15-23)K-LV

Models	15K	20K	23K
Input DC			
Recommended max. PV power	22.5 kW	30 kW	34.5 kW
Max. input voltage	1100 V		
Rated voltage	600 V		
Start-up voltage	180 V		
MPPT voltage range	200 - 1000 V		
Max. input current	32 A / 32 A / 32 A		
Max. short circuit current	40 A / 40 A / 40 A		
MPPT number / Max. input strings number	3 / 6		
Output AC			
Rated output power	15 kW	20 kW	23 kW
Max. apparent output power	16.5 kVA	22 kVA	25 kVA
Max. output power	16.5 kW	22 kW	25 kW
Rated grid voltage	3/PE, 220 V		
Rated grid frequency	50 Hz / 60 Hz		
Rated grid output current	39.4 A	52.5 A	60.4 A
Max. output current	43.3 A	57.7 A	65 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)		
THDi	< 3%		
Efficiency			
Max. efficiency	97.8%		
EU efficiency	97.3%		
Protection			
DC reverse-polarity protection	Yes		
Short circuit protection	Yes		
Output over current protection	Yes		
Surge protection	DC Type II / AC Type II		
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 PID recovery	Optional		
Integrated DC switch	Yes		
General Data			
Dimensions (W × H × D)	647 × 629 × 252 mm		
Weight	38.2 kg		42.1 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)	≤ 60 dB(A)		
Cooling concept	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, IEC60068, 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	OT terminal		
Display	LCD		
Communication	RS485, Optional: Wi-Fi, GPRS		