

S5-GC(25-40)K

Solis Three Phase Grid-Tied Inverters

Features:

- Max. efficiency 98.7%
- 3/4 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-GC25K / S5-GC30K

S5-GC33K / S5-GC36K

S5-GC40K



DATASHEET

S5-GC(25-40)K

Models	25K	30K	33K	36K	40K
Input DC					
Recommended max. PV power	37.5 kW	45 kW	49.5 kW	54 kW	60 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			4 × 32 A
Max. short circuit current		40 A / 40 A / 40 A			4 × 40 A
MPPT number / Max. input strings number		3 / 6			4 / 8
Output AC					
Rated output power	25 kW	30 kW	33 kW	36 kW	40 kW
Max. apparent output power	27.5 kVA	33 kVA	36.3 kVA	39.6 kVA	44 kVA
Max. output power	27.5 kW	33 kW	36.3 kW	39.6 kW	44 kW
Rated grid voltage			3/N/PE, 220 V / 380 V, 230 V / 400 V		
Rated grid frequency			50 Hz / 60 Hz		
Rated grid output current	38.0 A / 36.1 A	45.6 A / 43.3 A	50.1 A / 47.6 A	54.7 A / 52.0 A	60.8 A / 57.7 A
Max. output current	41.8 A	50.2 A	55.1 A	60.2 A	66.9 A
Power factor			> 0.99 (0.8 leading - 0.8 lagging)		
THDi			< 3%		
Efficiency					
Max. efficiency	98.5%		98.6%		98.7%
EU efficiency	98.1%		98.2%		98.3%
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		