

S5-GC(25-40)K

Solis Three Phase Inverters



360 degree

Model:

400V: S5-GC25K S5-GC30K S5-GC33K S5-GC36K S5-GC40K



Efficient

- ▶ Max. efficiency 98.7%
- ▶ String current up to **16A**
- ▶ 3/4 MPPT design, supports multiple orientation system design
- ▶ Night time PID recovery function, increases overall system yield (optional)
- ▶ Wide voltage range and low startup voltage



Smart

- ▶ Supports export power control
- ▶ Intelligent string monitoring, smart I-V curve scan
- ▶ Supports RS485, WiFi, GPRS
- ▶ Scan to register on SolisCloud, supports remote upgrade and control



Safe

- ▶ IP66
- ▶ AFCI protection, proactively reduces fire risk
- ▶ Globally recognised branded componentry for longer life
- ▶ Intelligent redundant fan-cooling



Economic

- ▶ Supports GPRS/WiFi communication with less wiring and reduced installation costs
- ▶ > 150% DC/AC ratio
- ▶ Supports high power modules for lower installation costs
- ▶ Supports aluminium wire access to reduce cost

Datasheet

Model Name	S5-GC25K	S5-GC30K	S5-GC33K	S5-GC36K	S5-GC40K
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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	50 A / 50 A / 50 A			4*50 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
Integrated PID recovery	Optional
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾
Integrated DC switch	Optional

General Data

Dimensions (W*H*D)	647*629*252 mm
Weight	37 kg
Topology	Transformerless
Self consumption (night)	<1 W
Operating ambient temperature range	-25 ~ +60°C
Relative humidity	0-100%
Ingress protection	IP66
Cooling concept	Intelligent redundant fan-cooling
Max. operation altitude	4000 m
Grid connection standard	G98 or 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, TOR, 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

(1) Activation required.