

S5-GC(25-36)K-LV

Solis Three Phase Inverters



360 degree

Model:

220V: S5-GC25K-LV S5-GC30K-LV S5-GC36K-LV



Efficient

- ▶ Max. efficiency 98.4%
- ▶ String current up to **16A**
- ▶ 4 MPPT design, supports multiple orientation system design
- ▶ Night time PID recovery function, increases overall system yield (optional)



Smart

- ▶ Night time SVG function
- ▶ Supports export power control
- ▶ Intelligent string monitoring, smart I-V curve scan
- ▶ Scan to register on SolisCloud, supports remote upgrade and control



Safe

- ▶ IP66, C5 Anti-Corrosion Level
- ▶ Intelligent redundant fan-cooling
- ▶ AFCI protection, proactively reduces fire risk
- ▶ Globally recognised branded componentry for longer life



Economic

- ▶ Supports PLC/GPRS/WiFi communication with less wiring and reduced installation costs
- ▶ DC side supports "Y" connectors
- ▶ Supports aluminium wire access to reduce cost
- ▶ 8 string inputs allow for 150%+ DC oversizing

Datasheet

Model Name	S5-GC25K-LV	S5-GC30K-LV	S5-GC36K-LV
Input DC			
Max. input voltage	1100 V		
Rated voltage	360 V		
Start-up voltage	195 V		
MPPT voltage range	180-1000 V		
Max. input current	4*32 A		
Max. short circuit current	4*50 A		
MPPT number/Max. input strings number	4/8		
Output AC			
Rated output power	25 kW	30 kW	36 kW
Max. apparent output power	27.5 kVA	33 kVA	36 kVA
Max. output power	27.5 kW	33 kW	36 kW
Rated grid voltage	3/(N)/PE, 220 V		
Rated grid frequency	50 Hz / 60 Hz		
Rated grid output current	65.6 A	78.7 A	94.5 A
Max. output current	72.2 A	86.6 A	94.5 A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)		
THDi	<3%		
Efficiency			
Max. efficiency	98.4%		
EU efficiency	98.0%		
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 AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾		
Integrated PID recovery	Optional ⁽²⁾		
Integrated DC switch	Optional		
General Data			
Dimensions (W*H*D)	691*578*338 mm		
Weight	54.5 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	UL 1741, IEEE 1547, NBR 16149, NBR 16150, C10-11, REN 342		
Safety/EMC standard	IEC 62109-1/-2, IEC62116 & IEC 61000-6-1/-2/-3/-4		
Features			
DC connection	MC4 connector		
AC connection	OT terminal (max. 70 mm ²)		
Display	LCD, Capacitive touch buttons		
Communication	RS485, USB, Optional: Wi-Fi, GPRS, PLC ⁽³⁾		

(1) Activation required.

(2) Due to the similar functional logic, when the night time PID-Recovery function is integrated, the night time var compensation function can not be used. Also, the negative grounding option is not available for inverters with night time PID-Recovery function.

(3) The PLC communication can not work with RS485 communication at the same time. If already installed the PLC CCO for PLC communication on site, then the RS485 ports on the inverters can not be used to connect another monitoring/control device.