

## S5-GC(50-60)K-LV

# Solis Three Phase Inverters

### Efficient

- 6/8 MPPTs, max. efficiency 98.5%
- > 170% DC/AC ratio
- High power tracking density 130MPPT/MW
- String current up to 16A, perfectly match large current bifacial modules

### Smart

- Night SVG function
- Intelligent string monitoring, smart I-V curve scan
- Remote firmware upgrade with simple operation

### Safe

- AFCI protection, proactively reduces fire risk
- Built-in PID recovery for better module performance (optional)
- Type I SPD for AC (optional)
- Overvoltage load reduction and leakage current suppression technology, low failure rate
- Globally recognised branded componentry for longer life

### Economic

- Power line communication (PLC) (optional)
- DC side supports "Y" connector
- Supports aluminium wire access to reduce cost

### Models:

S5-GC50K-LV

S5-GC60K-LV



## DATASHEET

## S5-GC(50-60)K-LV

Models	50K	60K
<b>Input DC</b>		
Max. input voltage	1100 V	
Rated voltage	450	
Start-up voltage	195 V	
MPPT voltage range	180-1000 V	
Max. input current	6*32 A	8*32 A
Max. short circuit current	6*40 A	8*40 A
MPPT number/Max. input strings number	6/12	8/16
<b>Output AC</b>		
Rated output power	50 kW	60 kW
Max. apparent output power	55 kVA	66 kVA
Max. output power	55 kW	66 kW
Rated grid voltage	3/(N)/PE, 220 V	
Rated grid frequency	50 Hz / 60 Hz	
Rated grid output current	131.2 A	157.5 A
Max. output current	144.3 A	173.2 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)	
THDi	<3%	
<b>Efficiency</b>		
Max. efficiency	98.5%	
EU efficiency	98.1%	
<b>Protection</b>		
DC reverse-polarity protection	Yes	
Short circuit protection	Yes	
Output over current protection	Yes	
Surge protection	DC Type II / AC Type II (AC Type I optional)	
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 <sup>(1)</sup>	
Integrated PID recovery	Optional	
Integrated DC switch	Yes	
Integrated AC switch	Optional	
<b>General Data</b>		
Dimensions (W*H*D)	1065*567*344.5 mm	
Weight	89 kg	
Topology	Transformerless	
Self-consumption (night)	<2 W	
Operating ambient temperature range	-30 ~ +60°C	
Relative humidity	0-100%	
Ingress protection	IP66	
Cooling concept	Intelligent redundant fan-cooling	
Max. operation altitude	4000 m	
Grid connection standard	IEC 61727, IEC 62116, C10/11, VDE 4105, VDE-AR-N 4110, IEEE 1547	
Safety/EMC standard	IEC62109-1/-2, EN61000-6-1/-2/-3/-4, UL1741	
<b>Features</b>		
DC connection	MC4 connector	
AC connection	OT terminal (max. 185 mm <sup>2</sup> )	
Display	LCD	
Communication	RS485, Optional: Wi-Fi, GPRS, PLC	

(1) Activation required.