



Solis S5-GC (50-60)K

Three-phase string inverter

Features:

- Efficiency up to 98,7%;
- String current up to **16A**;
- 5/6 MPPT;
- AFCI protection, proactively reduces fire risk;
- Support PLC/GPRS/WiFi communication with less wiring and reduced installation costs;
- Ingress protection IP66;
- Intelligent redundant fan-cooling;
- 10-year warranty;
- Energy S.p.A. assistance.

Dimensions:

Width: 691 mm
Height: 578 mm
Depth: 338 mm
Weight: 54.5 kg



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Model	Solis S5-GC50K	Solis S5-GC60K
Item Code	90051086	90051088
INPUT DC		
Max input voltage [V]	1100	
Rated Voltage DC [V]	600	
Start-up voltage [V]	195	
MPPT voltage range [V]	180-1000	
Max. input current [A]	5x32	6x32
Max. Short Circuit current	5x50	6x50
MPPT number/Max input strings number	5/10	6/12
OUTPUT AC		
Rated output power [kW]	50	60
Max. apparent output power [kVA]	55	66
Max. output power [kW]	55	66
Rated grid voltage and frequency [V-Hz]	220/380, 230/400 - 50/60	
Rated grid output current [A]	76.0/72.2	91.2/86.6
Max. output current [A]	83.6	100.3
Output Power Factor	>0.99 (0.8 leading ... 0.8 lagging)	
THDi [%]	<3	
EFFICIENCY		
Max. efficiency [%]	≥98.7	
EU efficiency [%]	≥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	
Integrated DC switch	Optional	
GENERAL DATA		
Dimensions [WxHxD]	691x578x338 mm	
Weight [kg]	54.5	
Topology	Transformerless	
Self consumption [W, night]	<1	
Operating ambient temperature range [°C]	-25 ~ + 60	
Relative humidity [%]	0-100	
Ingress protection	IP66	
Noise [dB]	<55 (A)	
Cooling concept	Intelligent redundant fan-cooling	
Max. operation altitude [m]	4000	
Grid connection standard	CEI 0-16, CEI 0-21, VDE-AR-N N4105, VDE V 0124, VDE V 0126-1-1, UTE C15-712-1, NRS 097-1-2, G98, G99, EN 50549-1/-2, NTS 631, UNE 206006, UNE 206007-1, IEC61727, DEWA	
Safety/EMC standard	IEC 62109-1/-2, IEC 62116, EN 61000-6-1/-2/-3/-4	
DC connection	MC4 connector	
AC connection	OT terminal (max. 70 mm²)	
Display	LCD, Capacitive touch buttons	
Communication	RS485/USB - Optional: WiFi/GPRS, PLC	
Warranty [years]	10	

The information in this brochure are not binding. Energy S.p.A. reserves the right to make changes at any time without notice.

Energy S.p.A.

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