



Solis S5-GC (25-40)K

Three-phase string inverter

Features:

- Efficiency up to 98,7%;
- String current up to **16A**;
- AFCI protection, proactively reduces fire risk;
- Support high power modules for lower installation costs;
- Ingress protection IP66;
- RS485 interface, WiFi/GPRS (optional);
- Forced convection cooling with fan;
- 10 years guarantee;
- Energy S.p.A. assistance.

Dimensions:

Width: 647 mm
Height: 629 mm
Depth: 252 mm
Weight: 37 kg



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Model	Solis S5-GC25K	Solis S5-GC30K	Solis S5-GC33K	Solis S5-GC36K	Solis S5-GC40K
Item Code	90051080	90051082	90051090	90051092	90051084
INPUT DC					
Recommended max. PV power [kW]	37.5	45	49.5	54	60
Max input voltage [V]	1100				
Rated Voltage DC [V]	600				
Start-up voltage [V]	180				
MPPT voltage range [V]	200-1000				
Max. input current [A]	3x32		4x32		
Max. Short Circuit current [A]	3x40		4x40		
MPPT number/Max input strings number	3/6		4/8		
OUTPUT AC					
Rated output power [kW]	25	30	33	36	40
Max. apparent output power [kVA]	27.5	33	36.3	39.6	44
Max. output power [kW]	27.5	33	36.3	39.6	44
Rated grid voltage and frequency [V-Hz]	220/380, 230/400 - 50/60				
Rated grid output current [A]	38.0/36.1	45.6/43.3	50.1/47.6	54.7/52.0	60.8/57.7
Max. output current [A]	41.8	50.2	55.1	60.2	66.9
Output Power Factor	>0.99 (0.8 leading ~ 0.8 lagging)				
THDi [%]	<3				
EFFICIENCY					
Max. efficiency [%]	98.5		98.6	98.7	98.7
EU efficiency [%]	98.1		98.2	98.3	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, mm]	647x629x252				
Weight [kg]	37				
Topology	Transformerless				
Self consumption [W, night]	<1				
Operating ambient temperature range [°C]	-25 ~ + 60				
Relative humidity [%]	0-100				
Ingress protection	IP66				
Cooling concept	Intelligent redundant fan-cooling				
Max. operation altitude	4000				
Grid connection standard	CEI 0-21, G98, G99, VDE-AR-N N4105, VDE V 0124, EN 50549-1, VDE 0126, UTE C15, VFR:2019, RD 1699, RD 244, UNE 206006, UNE 206007-1, C10/11, NRS 097-1-2, TOR, EIFS 2018.2, IEC61727, IEC60068, IEC 61683, EN 50530				
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4				
DC connection	MC4 Connector				
AC connection	OT terminal				
Display	LCD				
Communication	RS485, Optional: Wi-Fi, GPRS				
Warranty [years]	10				

(*) Activation required

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

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