



Solis Three-phase (6-20)K

Three-phase string inverter

Solis three-phase 6-20 kW string inverters with double MPPT and DC disconnect switch represent the optimal solution for residential, commercial and small industrial systems.

Solis three-phase inverters already work at low input voltage ranges, with an activation threshold of 180V.

This, along with the maximum efficiency of over 98.7% allow you to collect the maximum amount of energy possible from the photovoltaic system.

This type of inverter can be parallelized with three-phase hybrid inverters.



Features:

- Wide input voltage range: 160V-1000V;
- Efficiency up to 98.7%;
- String current up to **16A**;
- Natural convection cooling, natural / forced for sizes of 15-20 kW;
- RS485 interface, WiFi/GPRS (optional);
- "Zero entry" function (with accessory);
- Ingress protection IP66;
- 10 year guarantee;
- Energy S.p.A. assistance.

Dimensions:

Width: 310 mm
Height: 563 mm
Depth: 219 mm
Weight: 17.8 kg



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Model	Solis S5-GR3P6K	Solis S5-GR3P8K	Solis S5-GR3P10K	Solis S5-GR3P15K	Solis S5-GR3P20K
Codice Articolo	90051070	90051072	90051074	90051076	90051078
INPUT DC					
Recommended max. PV power [kW]	9	12	15	22.5	30
Max input voltage [V]			1100		
Start-up voltage [V]			180		
MPPT voltage range [V]			160-1000		
Max. input current [A/B]	16A / 16A				32A / 32A
Max. Short Circuit current	25A / 25A				50A / 50A
MPPT number/Max input strings number	2/2				2/4
OUTPUT AC					
Rated output power [kW]	6	8	10	15	20
Max. apparent output power [kVA]	6.6	8.8	11	16.5	22
Max. output power [kW]	6.6	8.8	11	16.5	22
Rated grid voltage and frequency [V-Hz]	220 / 380, 230 / 400 - 50/6				
Rated grid output current [A]	9.1 / 8.7	12.2 / 11.5	15.2 / 14.4	22.8 / 21.7	30.4 / 28.9
Max. output current [A]	9.5	12.7	15.9	23.8	31.8
Output Power Factor	>0,99 (0.8 leading ...0.8 lagging)				
THDi [%]	<2				
EFFICIENCY					
Max. efficiency [%]	98.3	98.5		98.6	98.7
EU efficiency [%]	97.7	97.9		98.0	98.1
Efficienza MPPT [%]	>99.5				
PROTECTION					
DC reverse-polarity protection, Short circuit protection, Output over current protection, Surge protection, Grid monitoring, Anti-islanding protection, Temperature protection, Integrated AFCI (DC arc-fault circuit protection)					
Integrated DC switch	Optional				
GENERAL DATA					
Dimensions [WxHxD, mm]	310x563x219				
Weight [kg]	17.8		18.8		20
Topology	Transformerless				
Self consumption [W, night]	<1				
Operating ambient temperature range [°C]	-25 ~ +60				
Relative humidity [%]	0-100				
Ingress protection	IP66				
Cooling concept	Natural convection		Intelligent redundant fan-cooling		
Max. operation altitude [m]	4000				
Grid connection standard	CEI021, G98, G99, VDE-AR-N 4105/VDE V 0124, EN 50549-1, VDE0126/UTE C 15/ VFR:2019, RD 1699 / RD 244 / UNE 206006 / UNE 206007-1, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC62116, IEC61727, IEC60068, IEC61683, EN 50530				
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4				
DC connection	MC4				
AC connection	Quick connection plug				
Display	LCD				
Communication	RS485, Opzionale: WiFi o GPRS				
Warranty [years]	10				

Energy S.p.A.

Registered office:
Piazza Manifattura, 1
38068, Rovereto TN
Tel. +39 0464 350812 - Fax +39 0464 350512



www.energyspa.com
www.bandoaccumulo.com

Energy S.p.A.

Operation/Warehouse:
Via Zona Industriale, 10
35020, Sant'Angelo di Piove di Sacco (PD) - Italy
info@energysynt.com
Tel. +39 049 2701296 - Fax +39 049 8599098