



# Solis Single-phase (2.5-6)K

## Single-Phase string inverter

Solis single-phase 2.5-6 kW string inverters with double MPPT and DC disconnect switch represent an optimal solution for residential installations.

Small in size and easy to install, these inverters have a wide range of input voltages to allow you to collect the maximum amount of energy possible from the photovoltaic system and with a maximum efficiency of up to 98.1% are ideal for installations in small spaces.

### Features:

- Simple installation;
- Efficiency up to 98.1%;
- Compact and lightweight;
- 2 independent MPPTs;
- CAN, RS485, WiFi / LAN / GPRS (optional);
- "Zero entry" function (with accessory);
- IP65;
- 10 year guarantee;
- Monitoring included, WiFi;
- Energy Srl assistance.



### Models:

Solis-1P 2.5K-4G	Solis-1P 3K-4G
Solis-1P 3.6K-4G	Solis-1P 4K-4G
Solis-1P 4.6K-4G	Solis-1P 5K-4G
Solis-1P 6K-4G	

### Dimensions:

Height - 543 mm
Width - 310 mm
Depth - 160 mm
Weight - 11.5 kg



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Model	Solis-1P 2.5K-4G	Solis-1P 3K-4G	Solis-1P 3.6K-4G	Solis-1P 4K-4G	Solis-1P 4.6K-4G	Solis-1P 5K-4G	Solis-1P 6K-4G
<b>INPUT DC</b>							
Max. DC input power [kW]	3	3.5	4.2	4.6	5.3	5.8	6.6
Max. DC input voltage [V]	550			600			
Start-up voltage [V]	60			120			
MPPT voltage range [V]	50-450			90-520			
Max. input current [A/B]	11A + 11A						
Max. Short Circuit current for each MPPT	17.2A +17.2A						
MPPT number/Max input strings number	2/A:1; B:1						
<b>OUTPUT AC</b>							
Rated output power [kW]	2.5	3	3.6	4	4.6	5	6
Max. apparent output power [kVA]	2.8	3.3	4	4.4	5	5	6
Max. output power [kW]	2.8	3.3	4	4.4	5	5	6
Rated grid voltage and frequency [V-Hz]	220/230V - 50/60Hz						
Grid frequency range [Hz]	47-52 o 57-62						
Rated grid output current [A]	11.4/10.9	13.6/13	16/15.7	18.2/17.4	20.9/20	22.7/21.7	27.3
Max. output current [A]	13.3	15.7	16	21	23.8A (21.7 for AUS)	25A (21.7 for AUS)	27.3
Output Power Factor	0.8 leading ...0.8 lagging						
THDi	<3%						
DC injection current	<0.5%In						
<b>EFFICIENCY</b>							
Max. efficiency	97.8%			98.1%			
EU efficiency	97.1%			97.3%			
MPPT efficiency	>99.5%						
<b>PROTECTION</b>							
DC reverse-polarity protection	Yes						
Short circuit protection	Yes						
Output over current protection	Yes						
Output over voltage protection	Yes						
Insulation resistance monitoring	Yes						
Residual current detection	Yes						
Surge protection	Yes						
Grid monitoring	Yes						
Islanding protection	Yes						
Thermal protection	Yes						
Integrated DC switch	Yes						
<b>GENERAL DATA</b>							
Dimensions [WxHxD]	310x543x160mm						
Weight [kg]	11,5						
Topology	Transformer less						
Self consumption [night]	<1W						
Operating ambient temperature range	-25~ +60°C						
Relative humidity	0-100%						
Ingress protection	IP65						
Noise emission	<20dBA						
Cooling concept	Natural convection						
Max. operation altitude	4000m						
Designed lifetime	>20 years						
Grid connection standard	CEI021, EN50438, G98, G99, AS4777.2:2015, VDE0126-1-1, IEC61727, VDE N4105						
Safety/EMC standard	IEC62109-1/-2, NB/T 32004, EN61000-6-1, EN61000-6-3						
DC connection	MC4						
AC connection	IP67 (rated plug)						
Display	LCD, 2x20 Z.						
Communication	4 pins RS485						
Monitoring	WiFi or GPRS						
Warranty	10 years						

## Energy Srl

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