



SOLIS

Solis Mini (1-3.6)K

Single-phase string inverter

The single-phase Solis Mini 1-3.6 kW string inverters are the ideal solution for small residential installations.

Small in size and easy to install, the Solis Mini come with a DC disconnect switch and have a wide range of input voltages to allow you to collect the maximum amount of energy possible from the photovoltaic system with a maximum efficiency up to 97.5%.

They are ideal for installations in small spaces.

Features:

- Simple installation;
- Efficiency up to 97.5%;
- Compact and lightweight;
- CAN, RS485, WiFi / LAN / GPRS (optional);
- “Zero entry” function (with accessory);
- IP65;
- 10 year guarantee;
- Monitoring included, WiFi;
- Energy Srl assistance.

Models:

Solis-mini-1000-4G
Solis-mini-1500-4G
Solis-mini-2000-4G
Solis-mini-2500-4G
Solis-mini-3000-4G
Solis-mini-3600-4G

Dimensions:

Height: 373 mm
Width: 310 mm
Depth: 160 mm
Weight: <8 kg



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Model	Solis-mini-1000-4G	Solis-mini-1500-4G	Solis-mini-2000-4G	Solis-mini-2500-4G	Solis-mini-3000-4G	Solis-mini-3600-4G
INPUT DC						
Max. DC input power [kW]	1.2	1.8	2.3	3	3.5	4
The max DC input voltage [V]	600					
Start-up voltage [V]	60			90		
MPPT voltage range [V]	50-500			80-500		
Max. input current [A/B]				11A		19A
Max. Short Circuit current for each MPPT				17.2A		30A
MPPT number/Max input strings number				1/A:1		1/A:2
OUTPUT AC						
Rated output power [kW]	1	1.5	2	2.5	3	3.6
Max. apparent output power [kVA]	1.1	1.7	2.2	2.8	3.3	3.6
Max. output power [kW]	1.1	1.7	2.2	2.8	3.3	3.6
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]	4.5/4.3	6.8/6.5	9.1/8.7	11.4/10.9	13.6/13	16
Max. output current [A]	5.2	8.1	10.5	13.3	15.7	16
Output Power Factor	0.8 leading ...0.8 lagging					
THDi [at rated output power]	<3%					
DC injection current	<0.5%In					
EFFICIENCY						
Max. efficiency	97.2%			97.5%		
EU efficiency	96.5%			96.8%		
MPPT efficiency	>99.5%					
PROTECTION						
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					
GENERAL DATA						
Dimensions [WxHxD]	310x373x160mm					
Weight [kg]	7.4			7.7		
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, EN61000-6-2, 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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Energy Srl

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