

Solis-2G Single Phase Inverter



Leading Features

- ▶ Over 97% Max. efficiency
- ▶ Dual MPPT design with precise MPPT algorithm
- ▶ Ultra wide input voltage range
- ▶ Compact and light design for one-person easy installation
- ▶ IP65, visually pleasing for domestic environment
- ▶ RS 485, WIFI/GPRS (optional) interface
- ▶ Numerous protection functions
- ▶ Wifi and monitoring app available
- ▶ 5 years standard warranty, 10 years optional upgrade

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Datasheet

Model	Solis-1K-2G	Solis-1.5K-2G	Solis-2K-2G	Solis-2.5K-2G	Solis-3K-2G	Solis-3.6K-2G	Solis-4K-2G	Solis-4.6K-2G	Solis-5K-2G	
Energy source	PV									
Input Side										
Max. DC input voltage(V)	500			600						
Start-up DC input voltage(V)	80				120					
MPPT operating range(V)	70-400	100-400			100-500					
Rated DC voltage(V)	250			300						
Max. DC input current(A)	10			10+10			15+15			
Number of MPP/Max strings per MPPT	1/1			2/1						
Output Side										
Rated output power(kW)	1	1.5	2	2.5	3	3.6	4	4.6	5	
Max. transient power(kW)	1.1	1.7	2.2	2.8	3.3	4	4.4	5	5	
Rated AC grid voltage(V)	230									
AC grid voltage range(V)	180~270(adjustable)									
Operating phase	Single									
Rated AC grid output current(A)	4.3	6.5	8.7	10.9	13	15.7	17.4	20	21.7	
Max. AC output current(A)	5.2	8.1	10.5	13.3	15.7	16	21	23.8	23.8	
Output power factor	>0.99									
Grid current THD	Total THD<4%									
DC injection current(mA)	<20									
Rated grid frequency(Hz)	50/60									
Efficiency										
Max. efficiency	>96%	>96.5%				>97%				>97%
Euro efficiency	>95.4%	>96%				>96.4%				>96.5%
MPPT efficiency	>99.9%	>99.9%				>99.9%				>99.9%
Protection										
Integrated DC switch	Optional									
DC reverse-polarity protection	Yes									
AC short circuit protection	Yes									
AC output overcurrent protection	Yes									
Output overvoltage protection-Varistor	Yes									
Ground fault monitoring	Yes									
Grid monitoring	Yes									
Islanding protection	Yes									
Temperature protection	Yes									
General data										
Size(mm)	339W*565H*164D			339W*565H*173D						
Weight(kG)	11.0			14.5			15.5			
Topology	Transformerless									
Internal consumption	<1W (Night)									
Running temperature	-25°C~60°C									
Ingress protection	IP65									
Operating range utility frequency (Hz)	47-52 or 57-62(adjustable)									
Noise emission(typical)	<30 dBA									
Cooling concept	Natural convection									
Max.operating altitude without derating	2000m									
Designed lifetime	>20 years									
Utility monitoring	Islanding protection V_{AC} , F_{AC} in accordance with UL 1741, G83/2, G59/2, AS4777, VDE 0126-1-1									
Operating surroundings humidity	0~95%									
EMC	EN61000-6-1:2007				EN61000-6-3:2007					
Features										
DC Connection	MC-4 mateable									
AC Connection	IP67 rated plug									
Display	LCD, 2 x 20 Z.									
Interface	RS 485, WIFI/GPRS (optional)									
Warranty	5~10 Years									