

Solis single phase 4G inverter



## Leading Features

- ▶ Multi-working mode, fully compatible with new AS4777.2:2015 standard
- ▶ Easy installation: Integrate with export power control function and DRM function.
- ▶ Max. efficiency over 97.8%, MPP efficiency over 99.5%
- ▶ Ultra wide input voltage range
- ▶ Dual MPPT design with precise MPPT algorithm
- ▶ 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
- ▶ High switching frequency design, to be more reliable and efficiency.
- ▶ Ultra low harmonic, THDi<1.5%



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# Datasheet

Model	Solis-1P1K-4G	Solis-1P1.5K-4G	Solis-1P2K-4G	Solis-1P2.5K-4G	Solis-1P3K-4G-ST	Solis-1P3K-4G	Solis-1P3.6K-4G	Solis-1P4K-4G	Solis-1P4.6K-4G	Solis-1P5K-4G
Energy source	PV									
<b>Input Side</b>										
Max. DC Power(kW)	1.2	1.8	2.3	3	3.5	3.5	4.2	4.6	5.3	5.8
Max. DC input voltage (V)	550					600				
Start-up DC input voltage(V)	60					120				
MPPT operating range(V)	50-450					100-500				
Max. DC input current(A)	11					11+11				
Number of MPP/Max strings per MPPT	1/1					2/2				
<b>Output Side</b>										
Rated output power(kW)	1	1.5	2	2.5	3	3	3.6	4	4.6	5
Max. transient power(kW)	1.1	1.7	2.2	2.8	3.3	3.3	4	4.4	5	5.5
Rated AC grid voltage(V)	230/240									
AC grid voltage range(V)	160-285									
Operating phase	Single									
Rated AC grid output current(A)	4.5/4.3	6.8/6.5	9.1/8.7	11.4/10.9	13.6/13	13.6/13	16/15.7	18.2/17.4	20.9/20	22.7/21.7
Max. AC output current(A)	5.2	8.1	10.5	13.3	15.7	15.7	16	21	23.8	25
Output power factor	0.8leading ... 0.8lagging									
Grid current THD	<1.5%									
DC injection current(mA)	<20									
Grid frequency range	47-52 or 57-62									
<b>Efficiency</b>										
Max. efficiency	97.2%			97.5%			97.8%			
Euro efficiency	96.5%			96.8%			97.0%			
MPPT efficiency	>99.5%									
<b>Protection</b>										
Temperature protection	Yes									
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									
Integrated DC switch	Optional									
<b>General data</b>										
Size(mm)	310W*536H*157D									
Weight(kg)	11					12				
Topology	Transformerless									
Internal consumption	<1W (Night)									
Running temperature	-25 ~60°C									
Ingress protection	IP65									
Noise emission(typical)	<30 dBA									
Cooling concept	Natural convection									
Max. operating altitude without derating	4000m									
Designed lifetime	>20 years									
Grid connection standard	EN50438, G83/2, G59/3, AS4777.2: 2015, VDE0126-1-1, IEC61727, VDE N4105									
Operating surroundings humidity	0-100%									
Stafty EMC/standard	IEC62109-1/-2, NB/T 32004 EN61000-6-1, EN61000-6-3,									
<b>Features</b>										
DC Connection	MC-4 mateable									
AC Connection	IP67 rated plug									
Display	LCD, 2 x 20 Z.									
Interface	RS 485, WiFi/GPRS (optional)									
Warranty	5 Years									