



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 year standard, 8 year premium warranty, or extended options



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Model Solis-4.6K-2G

Input Side

Max. DC input voltage	600V
Start-up DC input voltage	120V
MPPT operating range	100-500V
Max. DC input current	15A+15A
Number of MPP/Max strings per MPPT	2/1

Output Side

Rated output power	4.6kVA
Max. transient power	5kVA
Rated AC grid voltage	230V
AC grid voltage range	180~270V(adjustable), based on local requirement
Operating phase	Single
Rated AC grid output current	20A
Max. AC output current	23.8A
Output power factor	0.8lagging/0.9lagging/1 adjustable
Grid current THD	Total THD<4%
DC injection current	<20mA
Rated grid frequency	50/60Hz

Efficiency

Max. efficiency	>97%
Euro efficiency	>96.5%
MPPT efficiency	>99.9%

Protection

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
Integrated DC switch	Optional

General Data

Size	339W*565H*173D(mm)
Weight	17kg
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, G59/3, 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