



# solis -4.6K-2G inverter



## Leading Features

- ▶ Over 97% Max. efficiency
- ▶ Ultra wide input voltage range
- ▶ Dual MPPT design with precise MPPT algorithm
- ▶ Controlled PWM inverter technology
- ▶ Compact and light design for one-person easy installation
- ▶ IP65, visually pleasing for domestic environment
- ▶ RS485 WIFI GPRS interface
- ▶ Numerous protection functions

Model	Solis-4.6K-2G
<b>Input Side</b>	
Max. DC input voltage	600V
Start-up DC input voltage	120V
MPPT operating range	100-500V
Rated DC voltage	300V
Max. DC input current	15A+15A
Number of MPP/Max strings per MPPT	2/1
<b>Output Side</b>	
Rated output power	4.6kW
Max. transient power	5kW
Rated AC grid voltage	230V
AC grid voltage range	180~270V(adjustable)
Operating phase	Single
Rated AC grid output current	20A
Max. AC output current	23.8A
Output power factor	>0.99
Grid current THD	Total THD<4%
DC injection current	<20mA
Rated grid frequency	50/60Hz
<b>Efficiency</b>	
Max. efficiency	>97%
Euro efficiency	>96.5%
MPPT efficiency	>99.9%
<b>Protection</b>	
DC reverse-polarity protection	Yes
DC switch for each MPPT	Yes
AC short circuit protection	Yes
AC output over current protection	Yes
Output over voltage protection - varistor	Yes
Ground fault monitoring	Yes
Grid monitoring	Yes
Islanding protection	Yes
Temperature protection	Yes
<b>General Data</b>	
Size	339W*565H*173D(mm)
Weight	15.5kg
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	Self convection
Max. operating altitude without derating	2000m
Designed lifetime	>20 years
Utility monitoring	Islanding protection $V_{uc}$ , $F_{uc}$ in accordance with UL 1741, G59/2, AS4777, VDE 0126-1-1
Operating surroundings humidity	0~95%
EMC	EN61000-6-1:2007 EN61000-6-3:2007
<b>Features</b>	
DC connection	Screw terminal
AC connection	Screw terminal
Display	LCD, 2 x 20 Z.
Interface	RS485/WiFi or GPRS(Optional)
Warranty	5~10 Years