

Solis-2G-US Single Phase Inverter



Leading Features

- ▶ Over 97.8% Max. efficiency
- ▶ Dual MPPT design with precise MPPT algorithm starting from 2.5kW
- ▶ Ultra wide input voltage range
- ▶ Integrated AFCI
- ▶ Compact and light design for one-person easy installation
- ▶ NEMA 4X, visually pleasing for indoor and outdoor installations
- ▶ RS 485, WiFi/GPRS (optional) interface
- ▶ Numerous protection functions for "peace of mind"
- ▶ Web-based data monitoring and on-the-go monitoring via smart phone app
- ▶ 10 years standard warranty

Manufacturer: Ginlong (Ningbo) Technologies Co.,Ltd., Ningbo, Zhejiang, P.R.China

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Datasheet

Model	Solis-1K-2G-US	Solis-1.5K-2G-US	Solis-2K-2G-US	Solis-2.5K-2G-US	Solis-3K-2G-US	Solis-3.6K-2G-US	Solis-4K-2G-US	Solis-4.6K-2G-US	Solis-5K-2G-US
Energy source	PV								
DC Values									
Max power per MPPT (Watts)	1000	1500	2000	2500	3000	3600	4000	4600	5000
Max voltage (Volts)	500			600					
Startup voltage (Volts)	80	120							
Full power MPPT voltage range (Volts)	100-400	150-400	200-400	125-500	150-500	180-500	145-500	165-500	180-500
Operating MPPT voltage range (Volts)	70-400	100-400		100-500					
Max usable input current per MPPT (Amps)	10		10+10			10+18			
Max short circuit input current (Amps)	15.6		15.6+15.6			15.6+ 23.4			
Number of MPPT	1		2						
Inputs per MPPT	1			1			1 + 2		
AC Values									
Nominal output power (Watt)	1000	1500	2000	2500	3000	3600	4000	4600	5000
Continuous output power (Watt)	1100	1700	2200	2800	3300	4000	4400	5000	5000
Nominal grid voltage (Volts)	208/240								
Operating voltage range (Volts)	183~228(for 208V rated)/211~264(for 240V rated)								
Operating phase	Single								
Max overcurrent protection device (Amps)	10	10	20	20	20	30	30	30	30
Max continuous output current (Amps)	5.2	8.1	10.5	13.3	15.7	16	21	23.8	23.8
Output power factor	>0.99								
Grid current THD	THD<3%								
DC injection current (mAmps)	<20								
Nominal grid frequency (Hertz)	60								
Operating frequency range (Hertz)	59.3-60.5								
Efficiency									
Peak efficiency	96.8%			97.5%			97.8%		
CEC weighted efficiency	96.2%			96.8%			97%		
MPPT efficiency	99.9%			99.9%			99.9%		
Protection									
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 AFCI(DC arc-fault circuit protection)	Yes								
Integrated DC switch	Yes								
Rapid shutdown	Optional								
General data									
Dimensions (inch)	13.3W*25.9H*6.5D			13.3W*25.9H*6.8D					
Weight (lbs)	21.6			33.1			38.6		
Topology	Transformerless								
Internal consumption	<1W (Night)								
Ambient operating temperature range	-25°C~-60°C/-13°F~140°F								
Enclosure type	NEMA 4X								
Noise emission(typical)	<30 dBA								
Cooling type	Natural convection								
Max.operating altitude without derating(ft)	6560								
Designed lifetime	>20 years								
Compliance	CAN/CSAC22.2 N107.1, UL1741, UL1998, UL1699B, FCC part 15, Class B								
Operating surroundings humidity	0~95%								
Features									
Conduit connention	Plugged 3/4" openings for bottom and side								
Display	LCD, 2 x 20 Z.								
Interface	RS 485, WiFi/GPRS (optional)								
Warranty Terms	10 years								

Solis-US Three Phase Inverter



Leading Features

- ▶ Three phase output
- ▶ Over 98% Max. efficiency
- ▶ Ultra wide input voltage range
- ▶ Dual MPPT design with precise MPPT algorithm
- ▶ Integrated AFCI option
- ▶ Compact and light design for one-person easy installation
- ▶ NEMA 4X, visually pleasing for indoor and outdoor installations
- ▶ RS 485, WiFi/GPRS (optional) interface
- ▶ Numerous protection functions for “peace of mind”
- ▶ Web-based data monitoring and on-the-go monitoring via smart phone app
- ▶ 10 years standard warranty

Datasheet

Model	Solis-6K-US	Solis-10K-US		
Energy source	PV			
Input Side				
Max. input power (kW)	7.2	12.0	18.0	24.0
Max. input voltage (V)	1000			
Start-up input voltage(V)	330			
MPPT operating range(V)	200-800			
Rated voltage(V)	600			
Max. input current(A)	15+15			
Number of MPP/Max strings per MPPT	2/2			
Output Side				
Rated output power(kW)	6	10	15	20
Rated grid voltage(V)	480			
AC grid voltage range(V)	427-523			
Operating phase	Three			
Max. grid output current(A)	10.0	16.7	25.1	30.4
Output power factor	>0.99			
Grid current THD	THD<3%			
DC injection current(mA)	<20		<50	
Rated grid frequency(Hz)	60			
Frequency range(Hz)	59.3-60.5			
Efficiency				
Max. efficiency	>98.2%		>98.3%	
CEC efficiency	>97.3%		>97.5%	
MPPT efficiency	>99.9%			
Protection				
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				
Integrated AFCI(DC arc-fault circuit protection)	Optional			
General data				
Size				
Weight	29.0kg/63.9lb		32kg/70.5lb	
Topology	Transformerless			
Internal consumption	<1W (Night)			
Running temperature	-13°F~140°F			
Enclosure type	NEMA 4X			
Noise emission(typical)	<30 dBA			
Cooling concept	Natural convection		Forced air cooling	
Max.operating altitude without derating	2000m			
Designed lifetime	>20 years			
Safety and EMC standard	CAN/CSAC22.2 N107.1, UL1741, UL1998, UL1699B, FCC part 15, Class B			
Operating surroundings humidity	0~95%			
Features				
Conduit connention	Plugged 3/4" openings for bottom and side			
Display	LCD, 2 x 20 Z.			
Interface	RS 485, WiFi/GPRS (optional)			
Warranty	10 years			

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solis-2.5K-2G

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Leading Features

- ▶ Over 97.5% Max. efficiency
- ▶ 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
- ▶ 5 years standard warranty, 10 years optional upgrade

Model	Solis-2.5K-2G
Input Side (DC)	
Max. input power	3kW
Max. input voltage	600V
Start-up input voltage	120V
MPPT voltage range	100-500V
Max. input current	10A+10A
MPPT number/Max. input strings number	2/2
Output Side (AC)	
Rated output power	2.5kW
Max. transient power	2.8kW
Rated grid voltage	220/230/240V
Grid voltage range	180~270V(adjustable)
Rated grid frequency	50/60Hz
Operating phase	Single
Max. output current	13.3A
Power factor	>0.99
Total harmonic distortion (THDi)	<3%
DC injection current	<20mA
Grid frequency range	47-52Hz or 57-62Hz(adjustable)
Efficiency	
Max. efficiency	97.5%
EU efficiency	96.8%
MPPT efficiency	99.9%
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
Temperature protection	Yes
Integrated DC switch	Optional
General Data	
Dimensions	339W*565H*172.5D(mm)
Weight	14.5kg
Topology	Transformerless
Self consumption	<1W(Night)
Operating ambient temperature range	-25°C~60°C
Ingress protection	IP65
Noise emission(typical)	<30 dBA
Cooling concept	Natural convection
Max. operation altitude	2000m
Designed lifetime	>20 years
Grid connection standard	UL1741, G83/2, AS4777, VDE0126-1-1
Relative humidity	0~95%
Safety/EMC standard	EN61000-6-1:2007; EN61000-6-3:2007 IEC62109-1/2; AS3100
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



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Leading Features

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Model	Solis-2.5K-2G-ST
Input Side (DC)	
Max. input power	3kW
Max. input voltage	600V
Start-up input voltage	120V
MPPT voltage range	100-500V
Max. input current	10A
MPPT number/Max. input strings number	1/1
Output Side (AC)	
Rated output power	2.5kW
Max. transient power	2.8kW
Rated grid voltage	220/230/240V
Grid voltage range	180~270V(adjustable)
Rated grid frequency	50/60Hz
Operating phase	Single
Max. output current	13.3A
Power factor	>0.99
Total harmonic distortion (THDi)	<3%
DC injection current	<20mA
Grid frequency range	47-52Hz or 57-62Hz(adjustable)
Efficiency	
Max. efficiency	97.5%
EU efficiency	96.8%
MPPT efficiency	99.9%
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
Temperature protection	Yes
Integrated DC switch	Optional
General Data	
Dimensions	339W*565H*172.5D(mm)
Weight	14.5kg
Topology	Transformerless
Self consumption	<1W(Night)
Operating ambient temperature range	-25°C~60°C
Ingress protection	IP65
Noise emission(typical)	<30 dBA
Cooling concept	Natural convection
Max. operation altitude	2000m
Designed lifetime	>20 years
Grid connection standard	UL1741, G83/2, AS4777, VDE0126-1-1
Relative humidity	0~95%
Safety/EMC standard	EN61000-6-1:2007; EN61000-6-3:2007 IEC62109-1/2; AS3100
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



solis-3.6K-2G

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Leading Features

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- ▶ 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

Model	Solis-3.6K-2G
Input Side (DC)	
Max. input power	4.2kW
Max. input voltage	600V
Start-up input voltage	120V
MPPT voltage range	100-500V
Max. input current	10A+10A
MPPT number/Max. input strings number	2/2
Output Side (AC)	
Rated output power	3.6kW
Max. transient power	4kW
Rated grid voltage	220/230/240V
Grid voltage range	180~270V(adjustable)
Rated grid frequency	50/60Hz
Operating phase	Single
Max. output current	16A
Power factor	>0.99
Total harmonic distortion (THDi)	<3%
DC injection current	<20mA
Grid frequency range	47-52Hz or 57-62Hz(adjustable)
Efficiency	
Max. efficiency	97.5%
EU efficiency	96.8%
MPPT efficiency	99.9%
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
Temperature protection	Yes
Integrated DC switch	Optional
General Data	
Dimensions	339W*565H*172.5D(mm)
Weight	14.5kg
Topology	Transformerless
Self consumption	<1W(Night)
Operating ambient temperature range	-25°C~60°C
Ingress protection	IP65
Noise emission(typical)	<30 dBA
Cooling concept	Natural convection
Max. operation altitude	2000m
Designed lifetime	>20 years
Grid connection standard	UL1741, G83/2, AS4777, VDE0126-1-1
Relative humidity	0~95%
Safety/EMC standard	EN61000-6-1:2007; EN61000-6-3:2007 IEC62109-1/2; AS3100
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



solis -3.6K-2G-ST

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Leading Features

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Model	Solis-3.6K-2G-ST
Input Side (DC)	
Max. input power	4.2kW
Max. input voltage	600V
Start-up input voltage	120V
MPPT voltage range	100-500V
Max. input current	18A
MPPT number/Max. input strings number	1/2
Output Side (AC)	
Rated output power	3.6kW
Max. transient power	4kW
Rated grid voltage	220/230/240V
Grid voltage range	180~270V(adjustable)
Rated grid frequency	50/60Hz
Operating phase	Single
Max. output current	16A
Power factor	>0.99
Total harmonic distortion (THDi)	<3%
DC injection current	<20mA
Grid frequency range	47-52Hz or 57-62Hz(adjustable)
Efficiency	
Max. efficiency	97.5%
EU efficiency	96.8%
MPPT efficiency	99.9%
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
Temperature protection	Yes
Integrated DC switch	Optional
General Data	
Dimensions	339W*565H*172.5D(mm)
Weight	14.5kg
Topology	Transformerless
Self consumption	<1W(Night)
Operating ambient temperature range	-25°C~60°C
Ingress protection	IP65
Noise emission(typical)	<30 dBA
Cooling concept	Natural convection
Max. operation altitude	2000m
Designed lifetime	>20 years
Grid connection standard	UL1741, G83/2, AS4777, VDE0126-1-1
Relative humidity	0~95%
Safety/EMC standard	EN61000-6-1:2007; EN61000-6-3:2007 IEC62109-1/2; AS3100
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



solis-3K-2G

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Leading Features

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- ▶ 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
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- ▶ Numerous protection functions
- ▶ WiFi and monitoring app available
- ▶ 5 years standard warranty, 10 years optional upgrade

Model	Solis-3K-2G
Input Side (DC)	
Max. input power	3.5kW
Max. input voltage	600V
Start-up input voltage	120V
MPPT voltage range	100-500V
Max. input current	10A+10A
MPPT number/Max. input strings number	2/2
Output Side (AC)	
Rated output power	3kW
Max. transient power	3.3kW
Rated grid voltage	220/230/240V
Grid voltage range	180~270V(adjustable)
Rated grid frequency	50/60Hz
Operating phase	Single
Max. output current	15.7A
Power factor	>0.99
Total harmonic distortion (THDi)	<3%
DC injection current	<20mA
Grid frequency range	47-52Hz or 57-62Hz(adjustable)
Efficiency	
Max. efficiency	97.5%
EU efficiency	96.8%
MPPT efficiency	99.9%
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
Temperature protection	Yes
Integrated DC switch	Optional
General Data	
Dimensions	339W*565H*172.5D(mm)
Weight	14.5kg
Topology	Transformerless
Self consumption	<1W(Night)
Operating ambient temperature range	-25°C~60°C
Ingress protection	IP65
Noise emission(typical)	<30 dBA
Cooling concept	Natural convection
Max. operation altitude	2000m
Designed lifetime	>20 years
Grid connection standard	UL1741, G83/2, AS4777, VDE0126-1-1
Relative humidity	0~95%
Safety/EMC standard	EN61000-6-1:2007; EN61000-6-3:2007 IEC62109-1/2; AS3100
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



solis-3K-2G-ST

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Leading Features

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- ▶ 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

Model	Solis-3K-2G-ST
Input Side (DC)	
Max. input power	3.5kW
Max. input voltage	600V
Start-up input voltage	120V
MPPT voltage range	100-500V
Max. input current	18A
MPPT number/Max. input strings number	1/2
Output Side (AC)	
Rated output power	3kW
Max. transient power	3.3kW
Rated grid voltage	220/230/240V
Grid voltage range	180~270V(adjustable)
Rated grid frequency	50/60Hz
Operating phase	Single
Max. output current	15.7A
Power factor	>0.99
Total harmonic distortion (THDi)	<3%
DC injection current	<20mA
Grid frequency range	47-52Hz or 57-62Hz(adjustable)
Efficiency	
Max. efficiency	97.5%
EU efficiency	96.8%
MPPT efficiency	99.9%
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
Temperature protection	Yes
Integrated DC switch	Optional
General Data	
Dimensions	339W*565H*172.5D(mm)
Weight	14.5kg
Topology	Transformerless
Self consumption	<1W(Night)
Operating ambient temperature range	-25°C~60°C
Ingress protection	IP65
Noise emission(typical)	<30 dBA
Cooling concept	Natural convection
Max. operation altitude	2000m
Designed lifetime	>20 years
Grid connection standard	UL1741, G83/2, AS4777, VDE0126-1-1
Relative humidity	0~95%
Safety/EMC standard	EN61000-6-1:2007; EN61000-6-3:2007 IEC62109-1/2; AS3100
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



solis-4.6K-2G

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Leading Features

- ▶ Over 97.8% Max. efficiency
- ▶ 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
- ▶ 5 years standard warranty, 10 years optional upgrade

Model	Solis-4.6K-2G
Input Side (DC)	
Max. input power	5.3kW
Max. input voltage	600V
Start-up input voltage	120V
MPPT voltage range	100-500V
Max. input current	15A+15A
MPPT number/Max. input strings number	2/2
Output Side (AC)	
Rated output power	4.6kW
Max. transient power	5kW
Rated grid voltage	220/230/240V
Grid voltage range	180~270V(adjustable)
Rated grid frequency	50/60Hz
Operating phase	Single
Max. output current	23.8A
Power factor	>0.99
Total harmonic distortion (THDi)	<3%
DC injection current	<20mA
Grid frequency range	47-52Hz or 57-62Hz(adjustable)
Efficiency	
Max. efficiency	97.8%
EU efficiency	97%
MPPT efficiency	99.9%
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
Temperature protection	Yes
Integrated DC switch	Optional
General Data	
Dimensions	339W*565H*172.5D(mm)
Weight	16.5kg
Topology	Transformerless
Self consumption	<1W(Night)
Operating ambient temperature range	-25°C~60°C
Ingress protection	IP65
Noise emission(typical)	<30 dBA
Cooling concept	Natural convection
Max. operation altitude	2000m
Designed lifetime	>20 years
Grid connection standard	UL1741, G59/3, AS4777, VDE0126-1-1
Relative humidity	0~95%
Safety/EMC standard	EN61000-6-1:2007; EN61000-6-3:2007 IEC62109-1/2; AS3100
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



solis-4K-2G

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Leading Features

- ▶ Over 97.8% Max. efficiency
- ▶ 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
- ▶ 5 years standard warranty, 10 years optional upgrade

Model	Solis-4K-2G
Input Side (DC)	
Max. input power	4.6kW
Max. input voltage	600V
Start-up input voltage	120V
MPPT voltage range	100-500V
Max. input current	15A+15A
MPPT number/Max. input strings number	2/2
Output Side (AC)	
Rated output power	4kW
Max. transient power	4.4kW
Rated grid voltage	220/230/240V
Grid voltage range	180~270V(adjustable)
Rated grid frequency	50/60Hz
Operating phase	Single
Max. output current	21A
Power factor	>0.99
Total harmonic distortion (THDi)	<3%
DC injection current	<20mA
Grid frequency range	47-52Hz or 57-62Hz(adjustable)
Efficiency	
Max. efficiency	97.8%
EU efficiency	97%
MPPT efficiency	99.9%
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
Temperature protection	Yes
Integrated DC switch	Optional
General Data	
Dimensions	339W*565H*172.5D(mm)
Weight	14.5kg
Topology	Transformerless
Self consumption	<1W(Night)
Operating ambient temperature range	-25°C~60°C
Ingress protection	IP65
Noise emission(typical)	<30 dBA
Cooling concept	Natural convection
Max. operation altitude	2000m
Designed lifetime	>20 years
Grid connection standard	UL1741, G59/3, AS4777, VDE0126-1-1
Relative humidity	0~95%
Safety/EMC standard	EN61000-6-1:2007; EN61000-6-3:2007 IEC62109-1/2; AS3100
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



solis-5K-2G

inverter



Leading Features

- ▶ Over 97.8% Max. efficiency
- ▶ 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
- ▶ 5 years standard warranty, 10 years optional upgrade

Model	Solis-5K-2G
Input Side (DC)	
Max. input power	5.8kW
Max. input voltage	600V
Start-up input voltage	120V
MPPT voltage range	100-500V
Max. input current	15A+15A
MPPT number/Max. input strings number	2/2
Output Side (AC)	
Rated output power	5kW
Max. transient power	5kW
Rated grid voltage	220/230/240V
Grid voltage range	180~270V(adjustable)
Rated grid frequency	50/60Hz
Operating phase	Single
Max. output current	23.8A
Power factor	>0.99
Total harmonic distortion (THDi)	<3%
DC injection current	<20mA
Grid frequency range	47-52Hz or 57-62Hz(adjustable)
Efficiency	
Max. efficiency	97.8%
EU efficiency	97%
MPPT efficiency	99.9%
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
Temperature protection	Yes
Integrated DC switch	Optional
General Data	
Dimensions	339W*565H*172.5D(mm)
Weight	16.5kg
Topology	Transformerless
Self consumption	<1W(Night)
Operating ambient temperature range	-25°C~60°C
Ingress protection	IP65
Noise emission(typical)	<30 dBA
Cooling concept	Natural convection
Max. operation altitude	2000m
Designed lifetime	>20 years
Grid connection standard	UL1741, G59/3, AS4777, VDE0126-1-1
Relative humidity	0~95%
Safety/EMC standard	EN61000-6-1:2007; EN61000-6-3:2007 IEC62109-1/2; AS3100
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