

A large, abstract graphic occupies the bottom right portion of the page. It is composed of numerous concentric, overlapping arcs that curve from the bottom left towards the right edge. The arcs are rendered in a light gray color, creating a sense of depth and movement, reminiscent of a stylized rainbow or a series of ripples.

**Solis - Global Manufacturer of
Solar & Energy Storage Solutions**

Developing technology to
power the world with clean energy

COMPANY
MISSION

COMPANY PROFILE

Established in 2005, Ginlong (Solis) (Stock Code: 300763.SZ) is one of most experienced and largest manufacturers of solar inverters.

Cost-effective solutions for residential, commercial, and utility-scale users deliver value at every level of the solar supply chain, engaging both homeowners and businesses, as well as power producers and renewable energy investors across the globe.

Presented under the Solis brand, the company's solar inverter product line uses innovative string technology to deliver first-class reliability, validated under the most stringent international certifications.

Combining a global supply chain with world-class R&D and manufacturing capabilities, Ginlong optimizes its Solis inverters for each regional market, servicing and supporting its customers with its teams of local experts.

Proven bankability has attracted support from world leading financial institutions, ensuring solid long-term returns on investment. Working with stakeholders to accelerate the world's journey towards a more sustainable future.



2005

Established in 2005

No. 3

PV Inverter Shipments

40GW+

Manufacturing Capacity

TOP500

Global New Energy Enterprises

COMPANY HISTORY

2005

Ginlong Technologies established in Ningbo, China

2006

One of the first inverters certified to UK G83

2009

First Asian string inverter to achieve USA UL1741 certification

2010

Second Asian inverter certified to AS4777/AS 3100

2011

Ginlong hosted IEC61400 second annual meeting

2015

Ginlong inverter installed on the Eiffel Tower in Paris

Achieved top 12 inverter sales ranking in Europe

Earned third place ranking in China PV string inverter brand value (2015-2016)

2016

Listed by Asia PV innovation

Awarded Best Distribution Inverter Brand by PVBL

2017

Granted prestigious APVIA Technology Achievement Award (2017-2021)

2018

Single-phase string inverters ranked 2nd in global market shares (Wood Mackenzie)

2019

Ginlong (Solis) listed as a Public Company
Stock Code: 300763.SZ

Ginlong (Solis) Ranked Third among Asian Brands by BloombergNEF Bankability

2020

Three-phase string inverters ranked 3rd in global market shares (Wood Mackenzie)

Ginlong Solis won PVBL 2019 Annual Top Global PV Brand Award

2021

National Enterprise Technology Center

Ranked among the top 500 global new energy companies

National technological innovation demonstration enterprise

Excellent after-sales service system certification

Sixth batch of individual champions in 2021 by (MIIT)

2022

No.3 PV Inverter Supplier Globally in Shipments in 2021

No.2 PV Inverter Supplier Among Listed Companies in Shipments in China

National laboratory qualification CNAS certification

2023

Ranks among the top PV brands by EUPD research for 8 consecutive years (2016-2023)





27 Service Centers

With 27 offices and service centers around the world, including the Australia, Brazil, China, Chile, France, Germany, India, Italy, Indonesia, Korea, Mexico, Myanmar, Malaysia, Netherlands, Philippines, Poland, Pakistan, Romania, South Africa, Spain, Sweden, Singapore, Turkey, Thailand, UK, USA and Vietnam, Solis has a well-established and expanding global presence.

HQ

Service Centers

Response time

2H

Replacement time

24H

On-site support time

48H



GLOBAL REACH LOCAL EXPERTISE

CONTENTS

P11

Residential Energy Storage Solutions

The Solis residential energy storage family, covers single-phase and three-phase application scenarios. It aims to provide energy storage solutions for PV systems to achieve the goal of residential zero-carbon green electricity. The power range covers 3kW - 10kW.

P35

Residential Solar PV Solutions

Solis residential string inverters are cost-effective and efficient residential green power leaders, providing smarter green power solutions for your residential buildings.

P59

Commercial & Industrial Solar PV Solutions

Solis' C&I string inverter product line is broad with a power range cover 15kW - 125kW, providing you with the best industry green power solutions.

P91

Utility Scale Solar PV Solutions

Solis has optimized and innovated the whole process of utility solar PV solutions, integrated PV system design, digital management, and IoT technology.

P99

Export Power Management Solutions

In some countries, local regulations limit the amount of PV power that can be exported to the grid or allow no export. Solis offers two export limitation solutions for single and multiple inverters system.

P105

SolisCloud: Intelligent Solar Energy System Monitoring

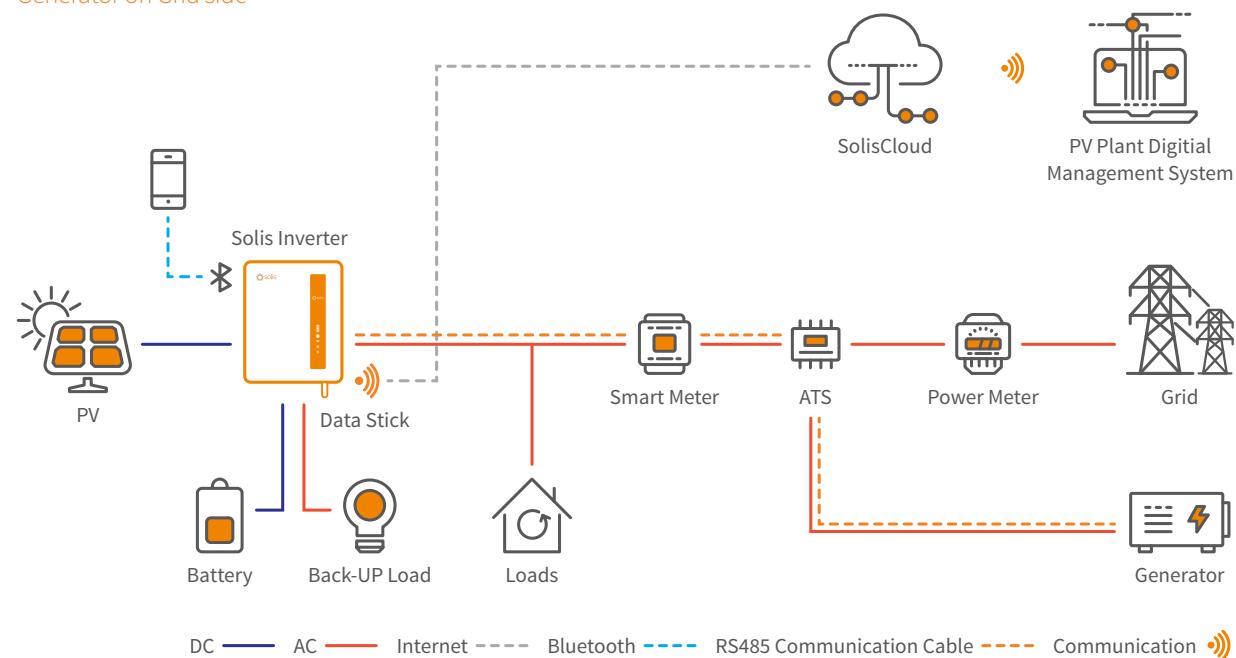
The SolisCloud intelligent monitoring system includes hardware and software products and is a comprehensive energy management solution. Hardware products, including data stick, data box, EPM and PLC, etc; transmit to SolisCloud online energy management platform. Real-time monitoring, visualized management and remote O & M of residential, C&I and utility scale solar PV plants.

The Solis residential energy storage family has abundant products, covering single-phase and three-phase application scenarios. It aims to provide energy storage solutions for PV systems to achieve the goal of real residential zero-carbon green electricity. The power range covers 3kW - 10kW. We can according to the requirements of your project application scenarios, rely on our flexible products to provide you with the best residential zero-carbon green power solutions.

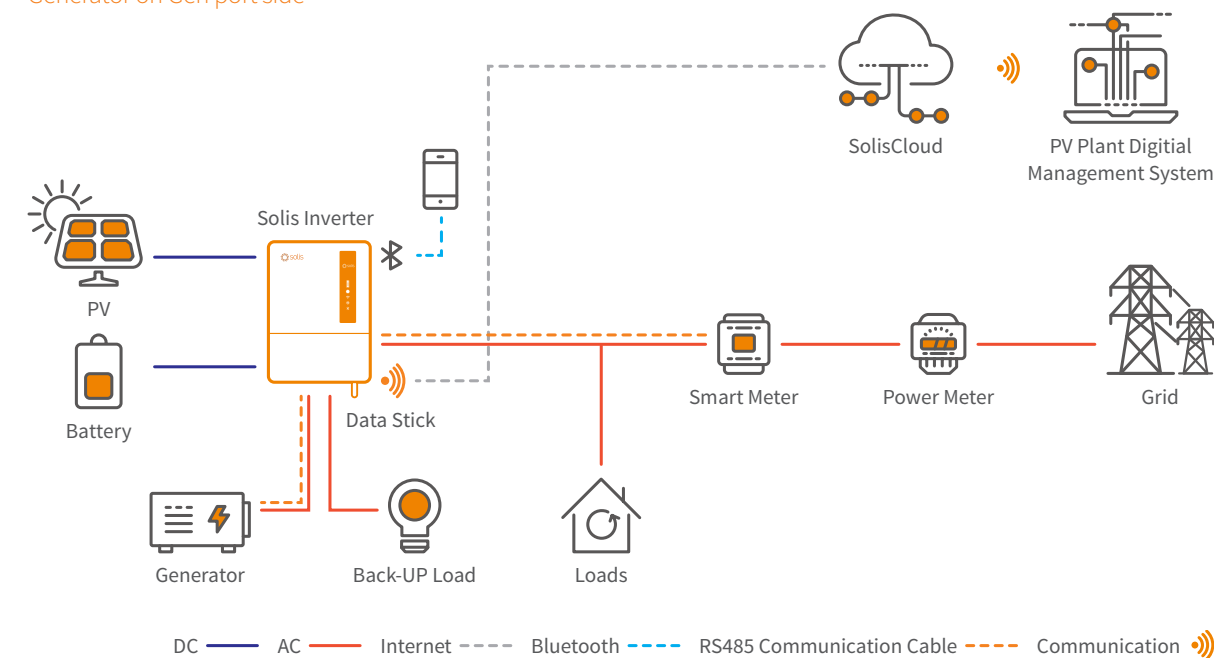
S5-EH1P(3-6)K-L	S6-EH3P(5-10)K2-H
S6-EH1P(3-6)K-L-EU	S6-EH3P(3-10)K-H-EU
S6-EH1P(3-6)K-L-PRO	RAI-3K-48ES-5G
S6-EH1P8K-L-PRO	S5-EO1P(4-5)K-48
RHI-3P(3-10)K-HVES-5G	S6-EO1P(4-5)K-48

3 kW - 10 kW

Generator on Grid side



Generator on Gen port side



S5-EH1P(3-6)K-L

Solis Energy Storage Inverters

Features:

- Max. string input current 15A
- Uninterrupted power supply, 20ms reaction
- 5kW backup power to support more important loads
- Multiple working modes to make maximize self-consumption, increase benefit
- Higher charge-discharge efficiency, improving the economic benefits
- AFCI protection, proactively reduces fire risk
- Fanless design, long lifespan
- Compatible with lithium & lead-acid batteries, increased more choice in different markets
- Intelligent EMS function, improving battery’s reliability
- With high-frequency isolation technology, making system safer and long lifespan
- 24-hour fully intelligent energy management, Real-time grasp of PV plant status
- Remotely control & upgrade function, making digital power plant maintenance at your fingertips

Models:

S5-EH1P3K-L / S5-EH1P3.6K-L

S5-EH1P4.6K-L / S5-EH1P5K-L

S5-EH1P6K-L



360° View



DATASHEET

S5-EH1P(3-6)K-L

Models	3K	3.6K	4.6K	5K	6K
Input DC (PV side)					
Recommended max. PV power	4.8 kW	5.7 kW	8 kW	8 kW	8 kW
Max. input voltage	600 V				
Rated voltage	330 V				
Start-up voltage	120 V				
MPPT voltage range	90-520 V				
Max. input current	15 A / 15 A				
Max. short circuit current	22.5 A / 22.5 A				
MPPT number/Max. input strings number	2/2				
Battery					
Battery type	Li-ion / Lead-acid				
Battery voltage range	42 - 58 V				
Battery capacity	50 - 2000 Ah				
Max. charge / discharge power	3 kW	5 kW			
Max. charge / discharge current	62.5 A	100 A			
Communication	CAN				
Output AC (Back-up)					
Rated output power	3 kW	5 kW			
Max. apparent output power	4.5 kVA, 10 sec	7 kVA, 10 sec			
Back-up switch time	<20 ms				
Rated output voltage	1/N/PE, 220 V / 230 V				
Rated frequency	50 Hz / 60 Hz				
Rated output current	14 A / 13.5 A	23 A / 22 A			
THDv (@linear load)	<2%				
Input AC (Grid side)					
Input voltage range	187-265 V				
Max. input current	20.5 A / 20 A	25 A / 23.5 A	31.5 A / 30 A	34.5 A / 33 A	34.5 A / 33 A
Frequency range	45-55 Hz / 55-65 Hz				
Output AC (Grid side)					
Rated output power	3 kW	3.6 kW	4.6 kW	5 kW	6 kW
Max. apparent output power	3.3 kVA	4 kVA	4.6 kVA	5.5 kVA	6.6 kVA
Operation phase	1/N/PE				
Rated grid voltage	220 V / 230 V				
Rated grid frequency	50 Hz / 60 Hz				
Rated grid output current	13.7 A / 13.1 A	16.4 A / 15.7 A	20.9 A / 20 A	22.8 A / 21.7 A	27.3 A / 26.1 A
Max. output current	15 A	18.5 A	21 A	25 A	30 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)				
THDi	<2%				
Efficiency					
Max. efficiency	>97.1%				
EU efficiency	>96.5%				
Protection					
DC reverse-polarity protection	Yes				
Short circuit protection	Yes				
Output over current protection	Yes				
Surge protection	DC Type II / AC Type II				
Ground fault monitoring	Yes				
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾				
Protection class/Over voltage category	I/II				
General Data					
Dimensions (W*H*D)	333*505*249 mm				
Weight	18.3 kg				
Topology	High frequency isolation (for battery)				
Operating ambient temperature range	-25 ~ +60°C				
Ingress protection	IP65				
Cooling concept	Natural convection				
Max. operation altitude	3000 m				
Grid connection standard	G98 or G99, VDE-AR-N 4105/VDE V 0124, EN 50549-1, VDE 0126/UTE C 15/VFR:2019, RD 1699/RD 244/UNE 206006/UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA				
Safety/EMC standard	IEC/EN 62109-1/-2, EN 61000-6-2/-3				
Features					
DC connection	MC4 connector				
AC connection	Quick connection plug				
Display	7.0"LCD color screen display				
Communication	RS485, Optional: Wi-Fi, GPRS				

(1) Activation required.

S6-EH1P(3-6)K-L-EU

Solis Energy Storage Inverters

Features:

- Integrated 2 MPPTs for multiple array orientations
- Industry leading 125A/6kW max charge/discharge rating
- Automatic UPS switching
- Supports Peak Shaving Mode
- Pre-made Battery, Meter and CAN cabling to reduce installation time
- Supports 1ph and 3ph flexible conection on both the Grid and Backup Port
- Compatible with multiple brands of lithium battery models
- Increased battery protection and operation features to extend battery life

Models:

S6-EH1P3K-L-EU / S6-EH1P3.6K-L-EU

S6-EH1P4.6K-L-EU / S6-EH1P5K-L-EU

S6-EH1P6K-L-EU



360° View



DATASHEET

S6-EH1P(3-6)K-L-EU

Models	3K	3.6K	4.6K	5K	6K
Input DC (PV side)					
Recommended max. PV power	4.8 kW	5.7 kW	7 kW	8 kW	9.6 kW
Max. input voltage	600 V				
Rated voltage	330 V				
Start-up voltage	90 V				
MPPT voltage range	90-520 V				
Max. input current	16 A / 16 A				
Max. short circuit current	24 A / 24 A				
MPPT number/Max. input strings number	2/2				
Battery					
Battery type	Li-ion / Lead-acid				
Battery voltage range	42 - 58 V				
Battery capacity	50 - 2000 Ah				
Max. charge / discharge power	3 kW	3.6 kW	4.6 kW	5 kW	6 kW
Max. charge / discharge current	62.5 A	75 A	100 A	105 A	125 A
Communication	CAN				
Output AC (Grid side)					
Rated output power	3 kW	3.6 kW	4.6 kW	5 kW	6 kW
Max. apparent output power	3.3 kVA	4 kVA	4.6 kVA	5.5 kVA	6.6 kVA
Operation phase	1/N/PE				
Rated grid voltage	220 V / 230 V				
Rated grid frequency	50 Hz / 60 Hz				
Rated grid output current	13.6 A / 13 A	16.4 A / 15.7 A	20.9 A / 20 A	22.7 A / 21.7 A	27.3 A / 26.1 A
Max. output current	15 A	18.2 A	21 A	25 A	30 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)				
THDi	<2%				
Input AC (Grid side)					
Input voltage range	187-253 V				
Max. input current	20.5 A	24.6 A	31.4 A	34.1 A	40 A
Frequency range	45-55 Hz / 55-65 Hz				
Output AC (Back-up)					
Rated output power	3 kW	3.6 kW	4.6 kW	5 kW	6 kW
Max. apparent output power	4.2 kVA, 60 sec	5 kVA, 60 sec	6.4 kVA, 60 sec	7 kVA, 60 sec	8 kVA, 60 sec
Back-up switch time	<10 ms				
Rated output voltage	1/N/PE, 220 V / 230 V				
Rated frequency	50 Hz / 60 Hz				
Max. output current	21.8 A	26.2 A	33.4 A	36.5 A	40 A
THDv (@linear load)	<2%				
Efficiency					
Max. efficiency	> 97.0%		> 97.5%		
EU efficiency	> 96.2%				
BAT charged by PV Max. efficiency	> 94.9%				
BAT charged/discharged to AC Max. efficiency	> 94.33%/93.51%				
Protection					
DC reverse-polarity protection	Yes				
Ground fault monitoring	Yes				
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾				
Protection class/Over voltage category	I/II				
General Data					
Dimensions (W*H*D)	405*480*205 mm				
Weight	24.2 kg				
Topology	High frequency isolation (for battery)				
Operating ambient temperature range	-25 ~ +60°C				
Ingress protection	IP66				
Cooling concept	Natural convection				
Max. operation altitude	4000 m				
Grid connection standard	G98 or G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15 / VFR:2019, RD 1699 / RD 244 / UNE 206006 / UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA				
Safety/EMC standard	IEC/EN 62109-1/-2, EN 61000-6-1/-2/-3/-4				
Features					
DC connection	MC4 connector				
AC connection	Quick connection plug				
Display	LED + APP				
Communication	RS485, CAN, Optional: Wi-Fi, GPRS, LAN				

(1) Activation required.

S6-EH1P(3-6)K-L-PRO

Solis S6 Advanced Power Hybrid Inverters

New PRO model provides solutions for demanding power scenarios

Features:

- Generator connectivity with multiple input methods and automatic generator On/Off control
- Automatic UPS switching
- 10 second 200% surge power backup overload capability
- Supports 1ph and 3ph flexible connection with max 36kW in parallel
- Up to 135A max charge/discharge current
- 6 customisable charge/discharge time settings
- Compatible with lead-acid and lithium batteries, with multiple battery protection features
- Supports peak shaving control in both "self-use" and "generator" mode

Models:

S6-EH1P3K-L-PRO / S6-EH1P3.6K-L-PRO
S6-EH1P5K-L-PRO / S6-EH1P6K-L-PRO



DATASHEET

S6-EH1P(3-6)K-L-PRO

Models	3K	3.6K	5K	6K
Input DC (PV side)				
Recommended max. PV power	4.8 kW	5.76 kW	8 kW	9.6 kW
Max. input voltage	600 V			
Rated voltage	330 V			
Start-up voltage	90 V			
MPPT voltage range	90-520 V			
Max. input current	16 A / 16 A			
Max. short circuit current	24 A / 24 A			
MPPT number/Max. input strings number	2/2			
Battery				
Battery type	Li-ion / Lead-acid			
Battery voltage range	40-60 V			
Max. charge / discharge power	3 kW	3.6 kW	5 kW	6 kW
Max. charge / discharge current	70 A	80 A	112 A	135 A
Communication	CAN/RS485			
Output AC (Grid side)				
Rated output power	3 kW	3.6 kW	5 kW	6 kW
Max. apparent output power	3.3 kVA	4 kVA	5.5 kVA	6.6 kVA
Operation phase	1/N/PE			
Rated grid voltage	220 V / 230 V			
Rated grid frequency	50 Hz / 60 Hz			
Rated grid output current	13.6 A / 13.0 A	16.4 A / 15.7 A	22.7 A / 21.7 A	27.3 A / 26.1 A
Max. output current	15 A	20 A	25 A	30 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)			
THDi	<2%			
Input AC (Grid side)				
Input voltage range	187-253 V			
Max. input current	20 A	25 A	32 A	40 A
Frequency range	45-55 Hz / 55-65 Hz			
Output AC (Back-up)				
Rated output power	3 kW	3.6 kW	5 kW	6 kW
Max. apparent output power	2 times of rated power, 10 s			
Back-up switch time	<4 ms			
Rated output voltage	1/N/PE, 220 V / 230 V			
Rated frequency	50 Hz / 60 Hz			
Rated output current	13.6 A / 13.0 A	16.4 A / 15.7 A	22.7 A / 21.7 A	27.3 A / 26.1 A
Max. output current	15 A	20 A	25 A	30 A
THDv (@linear load)	<2%			
Efficiency				
Max. efficiency	> 97.5%			
EU efficiency	> 96.2%			
Protection				
DC reverse-polarity protection	Yes			
Ground fault monitoring	Yes			
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾			
Protection class/Over voltage category	I/II			
General Data				
Dimensions (W*H*D)	406*560*205 mm			
Weight	24 kg			
Topology	High frequency isolation (for battery)			
Operating ambient temperature range	-40 ~ +60°C			
Ingress protection	IP66			
Cooling concept	Natural convection			
Max. operation altitude	4000 m			
Grid connection standard	NRS 097-2-1, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA			
Safety/EMC standard	IEC/EN 62109-1/-2, EN 61000-6-2/-3			
Features				
DC connection	MC4 plug (PV port) / Terminal Block (BAT port)			
AC connection	Terminal Block			
Display	LED + APP			
Communication	RS485, CAN, Optional: Wi-Fi, GPRS, LAN			

(1) Activation required.

S6-EH1P8K-L-PRO

Solis S6 Advanced Power Hybrid Inverters

New PRO model provides solutions for demanding power scenarios

Features:

- Generator connectivity with multiple input methods and automatic generator On/Off control
- Automatic UPS switching
- 10 second 200% surge power backup overload capability
- Supports 1ph and 3ph flexible connection with max 48kW in parallel
- Up to 190A max charge/discharge current
- 6 customisable charge/discharge time settings
- Compatible with lead-acid and lithium batteries, with multiple battery protection features
- Supports peak shaving control in both "self-use" and "generator" mode

Models:

S6-EH1P8K-L-PRO



DATASHEET

S6-EH1P8K-L-PRO

Models	8K
Input DC (PV side)	
Recommended max. PV power	12.8 kW
Max. input voltage	600 V
Rated voltage	330 V
Start-up voltage	90 V
MPPT voltage range	90-520 V
Max. input current	32 A / 20 A
Max. short circuit current	36 A / 30 A
MPPT number/Max. input strings number	2/3
Battery	
Battery type	Li-ion / Lead-acid
Battery voltage range	40-60 V
Max. charge / discharge power	8 kW
Max. charge / discharge current	190 A
Communication	CAN/RS485
Output AC (Grid side)	
Rated output power	8 kW
Max. apparent output power	8.8 kVA
Operation phase	1/N/PE
Rated grid voltage	220 V / 230 V
Rated grid frequency	50 Hz / 60 Hz
Rated grid output current	36.4 A / 34.8 A
Max. output current	40 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)
THDi	<2%
Input AC (Grid side)	
Input voltage range	187-253 V
Max. input current	50 A
Frequency range	45-55 Hz / 55-65 Hz
Output AC (Back-up)	
Rated output power	8 kW
Max. apparent output power	2 times of rated power, 10 s
Back-up switch time	<4 ms
Rated output voltage	1/N/PE, 220 V / 230 V
Rated frequency	50 Hz / 60 Hz
Rated output current	36.4 A / 34.8 A
Max. output current	40 A
THDv (@linear load)	<2%
Efficiency	
Max. efficiency	> 97.5%
EU efficiency	> 96.2%
Protection	
DC reverse-polarity protection	Yes
Ground fault monitoring	Yes
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾
Protection class/Over voltage category	I/II
General Data	
Dimensions (W*H*D)	406*560*215 mm
Weight	27 kg
Topology	High frequency isolation (for battery)
Operating ambient temperature range	-40 ~ +60°C
Ingress protection	IP66
Cooling concept	Intelligent redundant fan-cooling
Max. operation altitude	4000 m
Grid connection standard	NRS 097-2-1, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA
Safety/EMC standard	IEC/EN 62109-1/-2, EN 61000-6-2/-3
Features	
DC connection	MC4 plug (PV port) / Terminal Block (BAT port)
AC connection	Terminal Block
Display	LED + APP
Communication	RS485, CAN, Optional: Wi-Fi, GPRS, LAN

(1) Activation required.

RHI-3P(3-10)K-HVES-5G

Solis Energy Storage Inverters

Features:

- Max. efficiency 98.4%
- 2 MPPT and 4 DC input; Max 26A DC input current
- 3 operating modes (self-consumption; time-of-use; off-grid back-up) & programmable energy management
- Power supply can be switched automatically and switching time within 40ms
- Ensures AC backup for up to 10kW of continuous power and 16kVA of peak power
- Time of use shifting and peak shaving capabilities to grid
- AFCI protection, proactively reduces fire risk
- Intelligent EMS function
- Support three-phase imbalance on backup output port
- 24-hour fully intelligent energy management, Real-time grasp of PV plant status
- Remotely control & upgrade function, making digital power plant maintenance at your fingertips

Models:

RHI-3P3K-HVES-5G / RHI-3P4K-HVES-5G

RHI-3P5K-HVES-5G / RHI-3P6K-HVES-5G

RHI-3P8K-HVES-5G / RHI-3P10K-HVES-5G



DATASHEET

RHI-3P(3-10)K-HVES-5G

Models	3K	4K	5K	6K	8K	10K
Input DC (PV side)						
Recommended max. PV power	4.8 kW	6.4 kW	8 kW	9.6 kW	12.8 kW	16 kW
Max. input voltage	1000 V					
Rated voltage	600 V					
Start-up voltage	160 V					
MPPT voltage range	200-850 V					
Max. input current	13 A / 13 A				26 A / 13 A	26 A / 26 A
Max. short circuit current	16.5 A / 16.5 A				32.5 A / 16.5 A	32.5 A / 32.5 A
MPPT number/Max. input strings number	2/2				2/3	2/4
Battery						
Battery type	Li-ion					
Battery voltage range	160-600 V					
Max. charge / discharge power	3 kW	4 kW	5 kW	6 kW	8 kW	10 kW
Max. charge / discharge current	25 A					
Communication	CAN					
Input AC (Grid side)						
Input voltage range	320-480 V					
Max. apparent input power	3 kVA	4 kVA	5 kVA	6 kVA	8 kVA	10 kVA
Max. input current	25 A					
Frequency range	45-55 Hz / 55-65 Hz					
Output AC (Grid side)						
Rated output power	3 kW	4 kW	5 kW	6 kW	8 kW	10 kW
Max. apparent output power	3.3 kVA	4.4 kVA	5.5 kVA	6.6 kVA	8.8 kVA	10 kVA
Operation phase	3/N/PE					
Rated grid voltage	380 V / 400 V					
Rated grid frequency	50 Hz / 60 Hz					
Rated grid output current	4.6 A / 4.4 A	6.1 A / 5.8 A	7.6 A / 7.3 A	9.2 A / 8.7 A	12.2 A / 11.6 A	15.2 A / 14.5 A
Max. output current	5.1 A	6.8 A	8.4 A	10 A	13.4 A	16.7 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)					
THDi	<2%					
Output AC (Back-up)						
Rated output power	3 kW	4 kW	5 kW	6 kW	8 kW	10 kW
Peak apparent output power	10 kVA, 60 sec	10 kVA, 60 sec	10 kVA, 60 sec	12 kVA, 60 sec	16 kVA, 60 sec	16 kVA, 60 sec
Back-up switch time	< 40 ms					
Rated output voltage	3/N/PE, 380 V / 400 V					
Rated frequency	50 Hz / 60 Hz					
Rated output current	4.6 A / 4.4 A	6.1 A / 5.8 A	7.6 A / 7.3 A	9.2 A / 8.7 A	12.2 A / 11.6 A	15.2 A / 14.5 A
THDv (@linear load)	<2%					
Efficiency						
Max. efficiency	98.4%					
EU efficiency	97.7%					
MPPT efficiency	99.9%					
Battery charge/discharge efficiency	97.5%					
Protection						
Anti-islanding protection	Yes					
Output over current protection	Yes					
Short circuit protection	Yes					
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾					
Integrated DC switch	Optional					
DC reverse-polarity protection	Yes					
PV over voltage protection	Yes					
Battery reverse protection	Yes					
General Data						
Dimensions (W*H*D)	535*455*185 mm					
Weight	25.1 kg					
Topology	Transformerless					
Standby consumption	<15 W					
Operating ambient temperature range	-25 ~ +60°C					
Relative humidity	0-100%					
Ingress protection	IP65					
Cooling concept	Natural convection					
Max. operation altitude	4000 m					
Grid connection standard	G98 or G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15/VFR:2019, RD 1699/RD 244 / UNE 206006 / UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA					
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-3					
Features						
DC connection	MC4 connector					
AC connection	Quick connection plug					
Display	LCD					
Communication	RS485, Optional: Wi-Fi, GPRS					

(1) Activation required.

S6-EH3P(5-10)K2-H

Solis Energy Storage Inverters

Features:

- Industry leading 50A/10kW max charge/discharge rating
- Automatic UPS switching
- Supports Peak Shaving Mode
- Pre-made Battery, Meter and CAN cabling to reduce installation time
- Supports Unbalanced and Half-Wave Loads on both the Grid and Backup Port
- Compatible with multiple brands of lithium battery models
- Increased battery protection and operation features to extend battery life

Models:

S6-EH3P5K2-H / S6-EH3P6K2-H

S6-EH3P8K2-H / S6-EH3P10K2-H



360° View



DATASHEET

S6-EH3P(5-10)K2-H

Models	5K2		6K2		8K2		10K2	
Input DC (PV side)								
Recommended max. PV power	8 kW		9.6 kW		12.8 kW		16 kW	
Max. input voltage					1000 V			
Rated voltage					600 V			
Start-up voltage					160 V			
MPPT voltage range					200-850 V			
Max. input current					16 A / 16 A			
Max. short circuit current					24 A / 24 A			
MPPT number/Max. input strings number					2/2			
Battery								
Battery type					Li-ion			
Battery voltage range					120-600 V			
Max. charge / discharge power	5 kW		6 kW		8 kW		10 kW	
Max. charge / discharge current	25 A				50 A			
Communication					CAN/RS485			
Output AC (Grid side)								
Rated output power	5 kW		6 kW		8 kW		10 kW	
Max. apparent output power	5 kVA		6 kVA		8 kVA		10 kVA	
Rated grid voltage					3/N/PE, 380 V / 400 V			
Rated grid frequency					50 Hz / 60 Hz			
Rated grid output current	7.6 A / 7.2 A		9.1 A / 8.7 A		12.2 A / 11.5 A		15.2 A / 14.4 A	
Max. output current	7.6 A / 7.2 A		9.1 A / 8.7 A		12.2 A / 11.5 A		15.2 A / 14.4 A	
Power factor					>0.99 (0.8 leading - 0.8 lagging)			
THDi					<3%			
Input AC (Grid side)								
Max. input power	7.5 kW		9 kW		12 kW		15 kW	
Rated input current	11.4 A		13.8 A		18.2 A		22.8 A	
Rated input voltage					3/N/PE, 380 V / 400 V			
Rated input frequency					50 Hz / 60 Hz			
Output AC (Back-up)								
Rated output power	5 kW		6 kW		8 kW		10 kW	
Max. apparent output power	8 kVA, 60 sec		9.6 kVA, 60 sec		12.8 kVA, 60 sec		16 kVA, 60 sec	
Back-up switch time					<10 ms			
Rated output voltage					3/N/PE, 380 V / 400 V			
Rated frequency					50 Hz / 60 Hz			
Rated output current	7.6 A / 7.2 A		9.1 A / 8.7 A		12.2 A / 11.5 A		15.2 A / 14.4 A	
THDv (@linear load)					<2%			
Efficiency								
Max. efficiency	97.9%		97.9%		98.0%		98.0%	
EU efficiency	96.8%		97.1%		97.4%		97.5%	
BAT charged by PV Max. efficiency	98.4%		98.5%		98.2%		98.3%	
BAT charged/discharged to AC Max. efficiency	97.3%		97.3%		97.5%		97.5%	
Protection								
Anti-islanding protection					Yes			
Output over current protection					Yes			
Short circuit protection					Yes			
Integrated AFCI (DC arc-fault circuit protection)					Yes ⁽¹⁾			
Integrated DC switch					Yes			
DC reverse-polarity protection					Yes			
PV over voltage protection					Yes			
Battery reverse protection					Yes			
General Data								
Dimensions (W*H*D)					600*500*230 mm			
Weight					32.6 kg			
Topology					Transformerless			
Self-consumption (night)					<25 W			
Operating ambient temperature range					-25 ~ +60°C			
Ingress protection					IP66			
Cooling concept					Natural convection			
Max. operation altitude					4000 m			
Grid connection standard	G98 or G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15/VFR:2019, RD 1699/RD 244 / UNE 206006 / UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA							
Safety/EMC standard					IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-3			
Features								
PV connection					MC4 connector			
Battery connection					Quick connection plug			
AC connection					Quick connection plug			
Display					LED + Bluetooth + APP			
Communication					CAN, RS485, Ethernet, Optional: Wi-Fi, Cellular, LAN			

(1) Activation required.

S6-EH3P(3-10)K-H-EU

Solis Energy Storage Inverters

Features:

- Integrated 3 or 4 MPPTs for multiple array orientations
- Industry leading 50A/10kW max charge/discharge rating
- Automatic UPS switching
- Supports Peak Shaving Mode
- Pre-made Battery, Meter and CAN cabling to reduce installation time
- Supports Unbalanced and Half-Wave Loads on both the Grid and Backup Port
- Compatible with multiple brands of lithium battery models
- Increased battery protection and operation features to extend battery life

Models:

S6-EH3P3K-H-EU / S6-EH3P4K-H-EU
S6-EH3P5K-H-EU / S6-EH3P6K-H-EU
S6-EH3P8K-H-EU / S6-EH3P10K-H-EU



DATASHEET

S6-EH3P(3-10)K-H-EU

Models	3K	4K	5K	6K	8K	10K
Input DC (PV side)						
Recommended max. PV power	4.8 kW	6.4 kW	8 kW	9.6 kW	12.8 kW	16 kW
Max. input voltage	1000 V					
Rated voltage	600 V					
Start-up voltage	160 V					
MPPT voltage range	200-850 V					
Max. input current	16 A / 16 A		16 A / 16 A / 16 A		16 A / 16 A / 16 A / 16 A	
Max. short circuit current	24 A / 24 A		24 A / 24 A / 24 A		24 A / 24 A / 24 A / 24 A	
MPPT number/Max. input strings number	2/2		3/3		4/4	
Battery						
Battery type	Li-ion					
Battery voltage range	120-600 V					
Max. charge / discharge power	3 kW	4 kW	5 kW	6 kW	8 kW	10 kW
Max. charge / discharge current	25 A				50 A	
Communication	CAN/RS485					
Output AC (Grid side)						
Rated output power	3 kW	4 kW	5 kW	6 kW	8 kW	10 kW
Max. apparent output power	3.3 kVA	4.4 kVA	5.5 kVA	6.6 kVA	8.8 kVA	11 kVA
Rated grid voltage	3/N/PE, 380 V / 400 V					
Rated grid frequency	50 Hz / 60 Hz					
Rated grid output current	4.6 A / 4.3 A	6.1 A / 5.8 A	7.6 A / 7.2 A	9.1 A / 8.7 A	12.2 A / 11.5 A	15.2 A / 14.4 A
Max. output current	5.1 A / 4.7 A	6.7 A / 6.4A	8.4 A / 7.9 A	10 A / 9.6 A	13.4 A / 12.7 A	16.7 A / 15.8 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)					
THDi	<3%					
Input AC (Grid side)						
Max. input power	4.5 kW	6 kW	7.5 kW	9 kW	12 kW	15 kW
Rated input current	6.8 A	9.1 A	11.4 A	13.8 A	18.2 A	22.8 A
Rated input voltage	3/N/PE, 380 V / 400 V					
Rated input frequency	50 Hz / 60 Hz					
Output AC (Back-up)						
Rated output power	3 kW	4 kW	5 kW	6 kW	8 kW	10 kW
Max. apparent output power	4.8 kVA, 60 sec	6.4 kVA, 60 sec	8 kVA, 60 sec	9.6 kVA, 60 sec	12.8 kVA, 60 sec	16 kVA, 60 sec
Back-up switch time	<10 ms					
Rated output voltage	3/N/PE, 380 V / 400 V					
Rated frequency	50 Hz / 60 Hz					
Rated output current	4.6 A / 4.3 A	6.1 A / 5.8 A	7.6 A / 7.2 A	9.1 A / 8.7 A	12.2 A / 11.5 A	15.2 A / 14.4 A
THDv (@linear load)	<2%					
Efficiency						
Max. efficiency	97.7%	97.7%	97.9%	97.9%	98.0%	98.0%
EU efficiency	95.5%	96.0%	96.8%	97.1%	97.4%	97.5%
BAT charged by PV Max. efficiency	96.0%	96.6%	98.4%	98.5%	98.2%	98.3%
BAT charged/discharged to AC Max. efficiency	97.0%	97.3%	97.3%	97.3%	97.5%	97.5%
Protection						
Anti-islanding protection	Yes					
Output over current protection	Yes					
Short circuit protection	Yes					
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾					
Integrated DC switch	Yes					
DC reverse-polarity protection	Yes					
PV over voltage protection	Yes					
Battery reverse protection	Yes					
General Data						
Dimensions (W*H*D)	600*500*230 mm					
Weight	32.6 kg					
Topology	Transformerless					
Self-consumption (night)	<25 W					
Operating ambient temperature range	-25 ~ +60°C					
Ingress protection	IP66					
Cooling concept	Natural convection					
Max. operation altitude	4000 m					
Grid connection standard	G98 or G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15/VFR:2019, RD 1699/RD 244 / UNE 206006 / UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA					
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-3					
Features						
PV connection	MC4 connector					
Battery connection	Quick connection plug					
AC connection	Quick connection plug					
Display	LED + Bluetooth + APP					
Communication	CAN, RS485, Ethernet, Optional: Wi-Fi, Cellular, LAN					

(1) Activation required.

RAI-3K-48ES-5G

Solis Energy Storage Inverters

Features:

- Uninterrupted power supply, 20ms reaction
- Compatible with both lead-acid battery and li-ion battery
- Compatible with any existing grid-tied PV system, option to upgrade
- Off-grid backup function
- EPS function
- Intelligent EMS function
- Intelligent debugging APP which support one-click inverter configuration
- Various work mode for different application scenario
- Natural cooling without external fan

Models:

RAI-3K-48ES-5G



360° View



DATASHEET

RAI-3K-48ES-5G

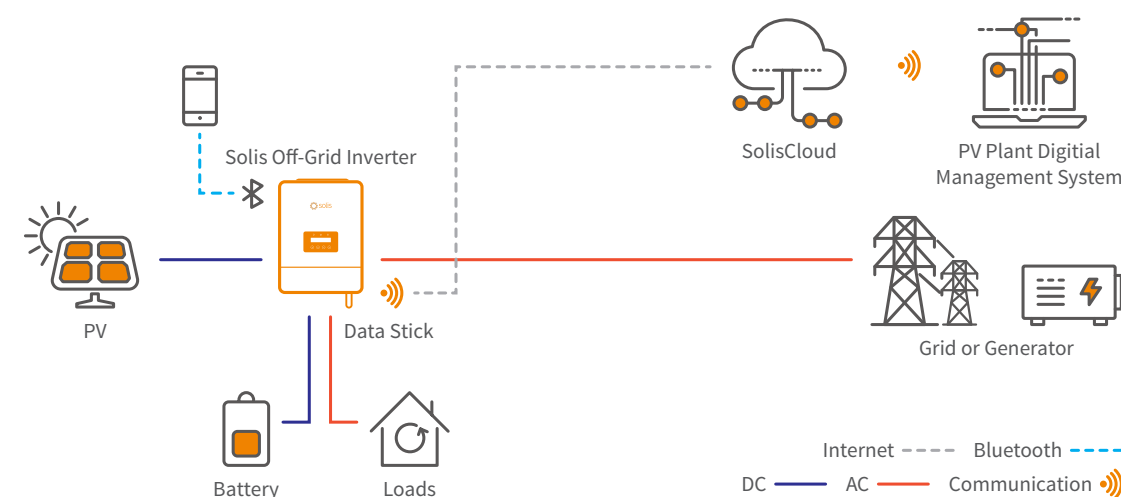
Models	3K
Output AC (Grid side)	
Rated output power	3 kW
Max. output power	3 kW
Max. apparent output power	3.3 kVA
Operation phase	1/N/PE
Rated grid voltage	220 V / 230 V
Grid voltage range	184-264 V
Rated grid frequency	50 Hz / 60 Hz
Rated grid output current	13.6 A / 13 A
Max. output current	20 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)
THDi	<3%
Battery	
Battery type	Li-ion / Lead-acid
Battery voltage range	40-60 V
Battery capacity	50-2000 Ah
Max. charge / discharge current	60 A
Communication	CAN
Output AC (Back-up)	
Rated output power	3kW (Requires battery voltage higher than 55 V)
Max. apparent output power	4.5 kVA
Back-up switch time	<20 ms
Rated output voltage	1/N/PE, 220 V / 230 V
Rated frequency	50 Hz / 60 Hz
Rated output current	13.6 A / 13 A
THDv (@linear load)	<3%
Input AC (Grid side)	
Input voltage range	184-264 V
Max. input current	23 A
Frequency range	45-55 Hz / 55-65 Hz
Efficiency	
Max. battery charge efficiency	94.0%
Max. battery discharge efficiency	94.5%
Protection	
Battery reverse protection	Yes
Battery over and under voltage protection	Yes
Short circuit protection	Yes
Output over current protection	Yes
Temperature protection	Yes
General Data	
Dimensions (W*H*D)	405*510*150 mm
Weight	12.1 kg
Topology	High frequency isolation
Operating ambient temperature range	-25 ~ +60°C
Ingress protection	IP65
Cooling concept	Natural convection
Max. operation altitude	2000 m
Grid connection standard	G98 or G99, VDE-AR-N 4105/VDE V 0124, EN 50549-1, VDE 0126/UTE C 15/VFR:2019, RD 1699/RD 244/UNE 206006/UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, MEA, PEA
Safety/EMC standard	IEC 62477, EN 61000-6-2/-3
Features	
DC connection	Screw terminal
AC connection	Screw clamp terminal (max. 6 mm ²)
Display	LCD
Communication	RS485, CAN, Optional: Wi-Fi, GPRS

Off-grid Energy Storage Solutions

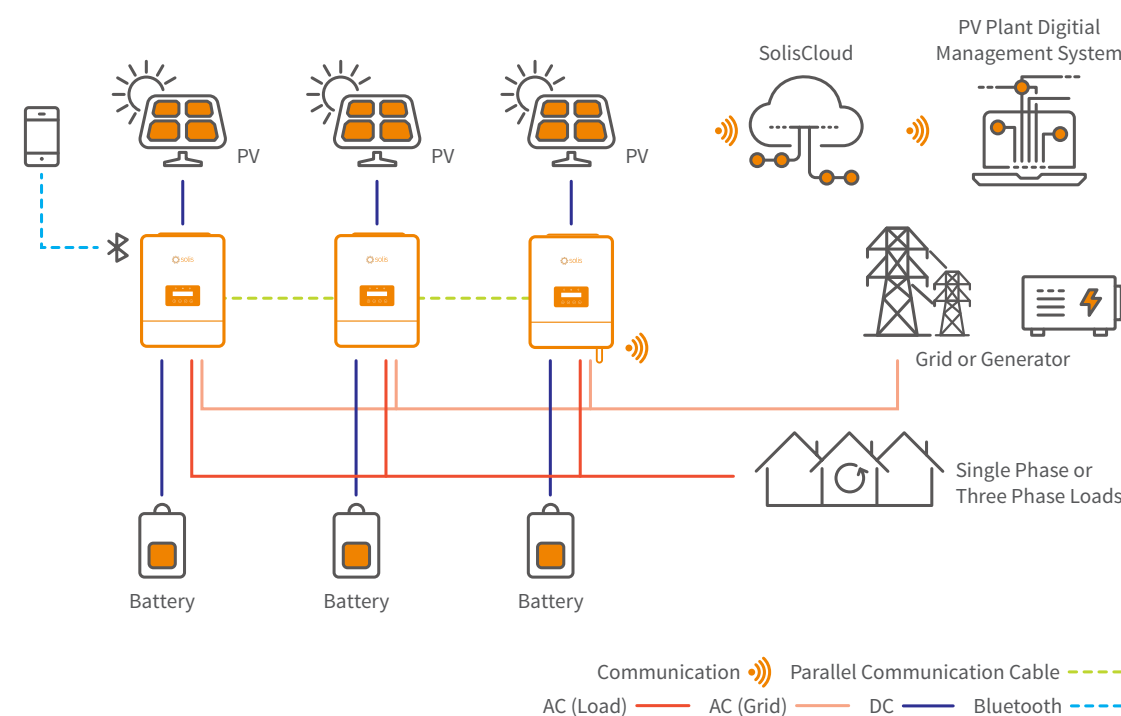
Solis EO series inverter is designed for residential off-grid systems in the countries without stable grid power, which can work with batteries to supply power to load and can also charge the batteries through PV plants, grid or generator.

The product has a variety of application scenarios combination modes, and can realize modular system assembly configuration according to needs. And can provide multiple products in parallel to form up to 50kW three-phase or single-phase parallel operation system, which is very suitable for small industrial, commercial or residential energy storage projects.

Off-grid Energy Storage Solution - Single EO Inverter



Off-grid Energy Storage Solution - Multiple Parallel EO Inverters



S5-EO1P(4-5)K-48

Solis Energy Storage Inverters

Features:

- One-click fast charging mode
- Supports 1ph and 3ph flexible connection
- Generator on and off will be added into system logic, more intelligent
- The newly added force-charging period can optimize the revenue according to the difference of electricity price
- Battery equalization for increased battery performance and lifespan

Models:

S5-EO1P4K-48 / S5-EO1P4K-48-P

S5-EO1P5K-48 / S5-EO1P5K-48-P



360° View



DATASHEET

S5-EO1P(4-5)K-48

Models	4K	4K-P	5K	5K-P
Parallel capability	No	Yes, 6 units	No	Yes, 6 units
Battery				
Rated battery voltage	48 V			
Battery type	Li-ion / Lead-acid			
Max. charge / discharge current	100 A			
Communication	CAN/RS485			
Inverter Output				
Rated output power	4 kVA / 4 kW		5 kVA / 5 kW	
Rated output voltage	230 V ± 1%			
Rated frequency	50 Hz / 60 Hz ± 0.1%			
Surge capacity	8 kVA		10 kVA	
Output voltage waveform	Pure sine wave			
Transfer time	10 ms typical, 20 ms Max			
THDv (@linear load)	<3%			
Peak efficiency (PV-AC)	96.6%			
Solar Charger				
Solar chager type	MPPT			
Recommended max. PV power	4.5 kW		5.5 kW	
Max. input voltage	500 V			
MPPT voltage range	90-480 V			
MPPT number/Max. input strings number	1/2			
Max. input current per MPPT	26 A ⁽¹⁾			
Max. solar charge current	100 A			
AC Charger				
Rated input voltage	230 V			
Selectable voltage range	90-280 V			
AC frequence range	50 Hz / 60 Hz (Auto sensing)			
Max. AC charge current	60 A		80 A	
Protection				
Output over voltage protection	Yes			
Output over current protection	Yes			
Short circuit protection	Yes			
Surge protection	Yes			
Temperature protection	Yes			
Integrated AFCI (DC arc-fault circuit protection)	Yes			
General Data				
Dimensions (W*H*D)	335*450*160 mm			
Weight	14 kg			
Relative humidity	5% - 95% (Non-condensing)			
Operating ambient temperature range	-10 ~ +60°C			
Storage temperature range	-25 ~ +60°C			
Ingress protection	IP21			
Max. operation altitude	2000 m			
Safety standard	IEC 62109, IEC 61000, 55011, RED			
Features				
DC connection	Terminal connectors			
AC connection	Terminal connectors			
Display	LCD			
Communication	CAN, BMS, RS485, Dry-contact, Bluetooth, Optional: Wi-Fi			

(1) Max. input current per string will be 27A for one string's design and 13.5A for two strings' design;
Max. input short current per string will be 32A for one string's design and 16A for two strings' design.

S6-EO1P(4-5)K-48

Solis Energy Storage Inverters

Features:

- One-click fast charging mode
- 6 customisable charge/discharge time settings
- Supports 1ph and 3ph flexible connection with max 30kW in parallel
- Generator connectivity with multiple input methods and automatic generator On/Off control
- The newly added force-charging period can optimize the revenue according to the difference of electricity price
- Battery equalization for increased battery performance and lifespan

Models:

S6-EO1P4K-48 / S6-EO1P5K-48



DATASHEET

S6-EO1P(4-5)K-48

Models	4K	5K
Solar Charger		
Recommended max. PV power	4.5 kW	5.5 kW
Max. input voltage	500 V	
Start-up voltage	90 V	
MPPT voltage range	90-480 V	
Max. input current	26 A	
Max. short circuit current	32 A	
Max. solar charge current	100 A	
MPPT number/Max. input strings number	1/2	
Battery		
Battery type	Li-ion / Lead-acid	
Rated battery voltage	48 V	
Max. charge / discharge power	5 kW / 5 kW	
Max. charge / discharge current	100 A	
Communication	CAN/RS485	
Inverter Output		
Rated output power	4 kVA / 4 kW	5 kVA / 5 kW
Operation phase	1/N/PE	
Rated grid voltage	230 V ± 1%	
Rated grid frequency	50 Hz / 60 Hz ± 0.1%	
Surge capacity	8 kVA	10 kVA
Max. output current	20 A	25 A
Output voltage waveform	Pure sine wave	
Transfer time	10 ms typical, 20 ms Max	
THDv (@linear load)	<3%	
Peak efficiency (PV-AC)	96.6%	
AC Charger		
Input voltage range	230 V	
Selectable voltage range	90-280 V	
AC frequency range	50 Hz / 60 Hz (Auto sensing)	
Max. AC charge current	60 A	80 A
Generator		
Rated input power	4 kW	5 kW
Rated input current	60 A	80 A
Protection		
Output over voltage protection	Yes	
Output over current protection	Yes	
Short circuit protection	Yes	
Surge protection	Yes	
Temperature protection	Yes	
Integrated AFCI (DC arc-fault circuit protection)	Yes	
General Data		
Dimensions (W*H*D)	335*450*160 mm	
Weight	14 kg	
Relative humidity	5% - 95% (Non-condensing)	
Operating ambient temperature range	-10 ~ +60°C	
Storage temperature range	-25 ~ +60°C	
Ingress protection	IP21	
Max. operation altitude	2000 m	
Parallel capability	6 units	
Safety standard	IEC 62109, IEC 61000	
Features		
DC connection	Terminal connectors	
AC connection	Terminal connectors	
Display	LCD	
Communication	CAN, BMS, RS485, Dry-contact, Bluetooth, Optional: Wi-Fi	

Residential Solar PV Solutions

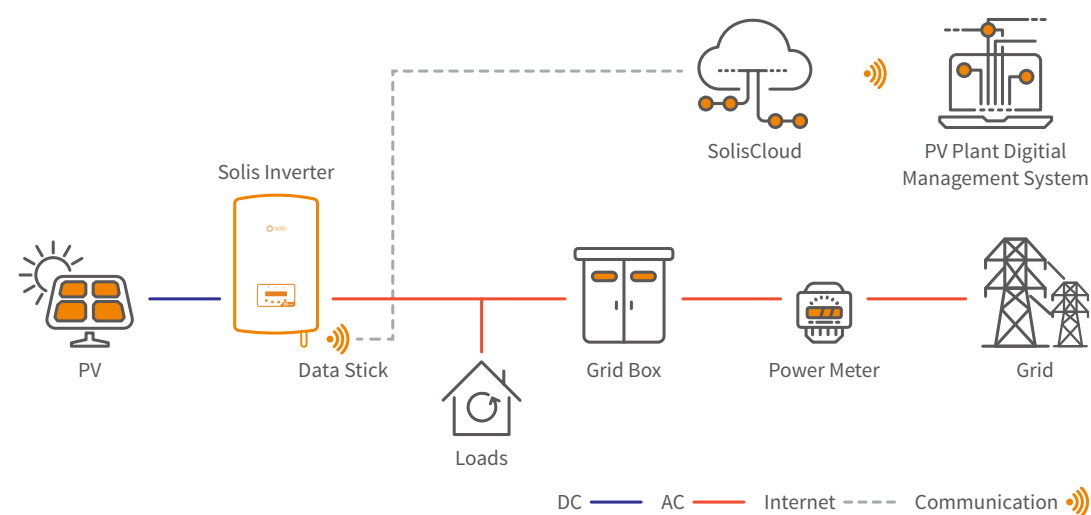
Solis residential string inverters are cost-effective and efficient green power leaders, providing smarter green power solutions for your residential buildings. A variety of models and solutions meet the needs of modern homes.

The portfolio includes single-phase and small three-phase string inverters, with a wide range of models, providing the best home green power solutions based on your application scenarios and specific needs. Solis Residential inverters are small and light, allowing for just one person to complete the installation. The overall design is sleek and modern, with low noise, particularly suitable for home installation without affecting people's daily activities.

Via online or App, you can connect to SolisCloud for intelligent energy management. Simple operation and convenient.

Solis residential solutions are technically advanced, flexible and simplify integration with digital home automation equipment and smart grids.

Residential Solar PV Solution



Models:

S6-GR1P(0.6-0.8)K-UM / S6-GR1P(0.6-3.6)K-M
 S6-GR1P(2.5-6)K / S6-GR1P(2.5-6)K-S
 S6-GR1P(7-8)K2 / S5-GR1P(9-10)K
 S5-GR3P(5-10)K-LV / S6-GR3P(5-15)K-LV
 S5-GR3P(3-20)K / S6-GR3P(3-30)K

Output:

0.6 kW - 30 kW

S6-GR1P(0.6-0.8)K-UM

Solis Mini Series Inverters

Features:

- Large input voltage range, support system easy expand
- Integrated WiFi, Easy to use
- Rack moutaion easy installation
- 2m EU type plug, plug and play

Models:

S6-GR1P0.6-UM / S6-GR1P0.8K-UM



DATASHEET

S6-GR1P(0.6-0.8)K-UM

Models	0.6K	0.8K
Input DC		
Recommended max. PV power	1.2 kW	
Max. input voltage	500 V	
Rated voltage	60 V	
Start-up voltage	40 V	
MPPT voltage range	30-500 V	
Max. input current	16 A	
Max. short circuit current	25 A	
MPPT number/Max. input strings number	1/1	
Output AC		
Rated output power	0.6 kW	0.8 kW
Max. apparent output power	0.6 kVA	0.8 kVA
Max. output power	0.6 kW	0.8 kW
Rated grid voltage	1/N/PE, 230 V	
Rated grid frequency	50 Hz	
Rated grid output current	2.6 A	3.5 A
Max. output current	2.6 A	3.5 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)	
THDi	<3%	
Efficiency		
Max. efficiency	96.6%	
EU efficiency	95.5%	96.5%
Protection		
DC reverse-polarity protection	Yes	
Short circuit protection	Yes	
Output over current protection	Yes	
Surge protection	Yes	
Grid monitoring	Yes	
Anti-islanding protection	Yes	
Temperature protection	Yes	
General Data		
Dimensions (W*H*D)	249*234.5*63.4 mm	
Weight	2.5 kg	
Topology	Transformerless	
Self-consumption (night)	<50 W	
Operating ambient temperature range	-25 ~ +60°C	
Relative humidity	0-100%	
Ingress protection	IP65	
Cooling concept	Natural convection	
Max. operation altitude	2000 m	
Grid connection standard	VDE-AR-N 4105: 2018	TOR typeA
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4	
Features		
DC connection	MC4 connector	
AC connection	EU type plug	
Display	LED	
Communication	Wi-Fi	

S6-GR1P(0.6-3.6)K-M

Solis Mini Series Inverters

Features:

- Max. efficiency 97.3%
- String current up to 14A
- Super high frequency switching technology
- Wide voltage range and low startup voltage
- Precise MPPT algorithm
- Intergrated Export Power Manager (EPM)
- AFCI protection, proactively reduces fire risk
- Compact and lightweight
- Friendly and adaptable connection to the grid

Models:

S6-GR1P0.6K-M / S6-GR1P0.7K-M

S6-GR1P1K-M / S6-GR1P1.5K-M

S6-GR1P2K-M / S6-GR1P2.5K-M

S6-GR1P3K-M / S6-GR1P3.6K-M



360° View



DATASHEET

S6-GR1P(0.6-3.6)K-M

Models	0.6K	0.7K	1K	1.5K	2K	2.5K	3K	3.6K
Input DC								
Recommended max. PV power	0.9 kW	1.1 kW	1.5 kW	2.3 kW	3 kW	3.8 kW	4.5 kW	5.4 kW
Max. input voltage	600 V							
Rated voltage	200 V				330 V			
Start-up voltage	60 V				90 V			
MPPT voltage range	50-500 V				80-500 V			
Max. input current	14 A							19 A
Max. short circuit current	22 A							24 A
MPPT number/Max. input strings number	1/1							1/2
Output AC								
Rated output power	0.6 kW	0.7 kW	1 kW	1.5 kW	2 kW	2.5 kW	3 kW	3.6 kW
Max. apparent output power	0.6 kVA	0.77 kVA	1.1 kVA	1.65 kVA	2.2 kVA	2.75 kVA	3.3 kVA	3.6 kVA
Max. output power	0.6 kW	0.77 kW	1.1 kW	1.65 kW	2.2 kW	2.75 kW	3.3 kW	3.6 kW
Rated grid voltage	1/N/PE, 220 V / 230 V							
Rated grid frequency	50 Hz / 60 Hz							
Rated grid output current	2.6 A	3.2 A / 3.0 A	4.5 A / 4.3 A	6.8 A / 6.5 A	9.1 A / 8.7 A	11.4 A / 10.9 A	13.6 A / 13 A	16 A
Max. output current	2.6 A	4.4 A	5.2 A	8.1 A	10.5 A	13.3 A	15.7 A	16 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)							
THDi	<3%							
Efficiency								
Max. efficiency	96.6%			96.6%	97.1%	97.1%		97.3%
EU efficiency	95.3%			95.4%	96.4%	96.7%		96.8%
Protection								
DC reverse-polarity protection					Yes			
Short circuit protection					Yes			
Output over current protection					Yes			
Surge protection					Yes			
Grid monitoring					Yes			
Anti-islanding protection					Yes			
Temperature protection					Yes			
Integrated AFCI (DC arc-fault circuit protection)					Yes ⁽¹⁾			
Integrated DC switch					Optional			
General Data								
Dimensions (W*H*D)					310*373*160 mm			
Weight	7.4 kg					7.7 kg		
Topology					Transformerless			
Self-consumption (night)					<1 W			
Operating ambient temperature range					-25 ~ +60°C			
Relative humidity					0-100%			
Ingress protection					IP66			
Cooling concept					Natural convection			
Max. operation altitude					4000 m			
Grid connection standard	G98 or G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15 / VFR:2019, RD 1699 / RD 244 / UNE 206006 / UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA							
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4							
Features								
DC connection					MC4 connector			
AC connection					Quick connection plug			
Display					LCD			
Communication					RS485, Optional: Wi-Fi, GPRS			

(1) Activation required.

S6-GR1P(2.5-6)K

Solis Single Phase Inverters

Features:

- Max. efficiency 97.7%
- String current up to 14A
- Super high frequency switching technology
- Wide voltage range and low startup voltage
- 2 MPPT design with precise MPPT algorithm
- Intergrated Export Power Manager (EPM)
- AFCI protection, proactively reduces fire risk
- Compact and lightweight
- Friendly and adaptable connection to the grid

Models:

S6-GR1P2.5K / S6-GR1P3K

S6-GR1P3.6K / S6-GR1P4K

S6-GR1P4.6K / S6-GR1P5K

S6-GR1P6K



DATASHEET

S6-GR1P(2.5-6)K

Models	2.5K	3K	3.6K	4K	4.6K	5K	6K
Input DC							
Recommended max. PV power	3.75 kW	4.5 kW	5.4 kW	6 kW	6.9 kW	7.5 kW	9 kW
Max. input voltage	550 V	600 V					
Rated voltage	250 V	330 V					
Start-up voltage	60 V	120 V					
MPPT voltage range	50-450 V	90-520 V					
Max. input current	14 A / 14 A						
Max. short circuit current	22 A / 22 A						
MPPT number/Max. input strings number	2/2						
Output AC							
Rated output power	2.5 kW	3 kW	3.6 kW	4 kW	4.6 kW	5 kW	6 kW
Max. apparent output power	2.8 kVA	3.3 kVA	4 kVA	4.4 kVA	5 kVA	5 kVA	6 kVA
Max. output power	2.8 kW	3.3 kW	4 kW	4.4 kW	5 kW	5 kW	6 kW
Rated grid voltage	1/N/PE, 220 V / 230 V						
Rated grid frequency	50 Hz / 60 Hz						
Rated grid output current	11.4 A / 10.9 A	13.6 A / 13.0 A	16.0 A / 15.7 A	18.2 A / 17.4 A	20.9 A / 20.0 A	22.7 A / 21.7 A	27.3 A
Max. output current	13.3 A	15.7 A	16.0 A	21.0 A	23.8 A	25.0 A	27.3 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)						
THDi	<3%						
Efficiency							
Max. efficiency	97.3%	97.3%		97.6%		97.7%	
EU efficiency	96.5%	96.6%		97.1%		97.1%	
Protection							
DC reverse-polarity protection	Yes						
Short circuit protection	Yes						
Output over current protection	Yes						
Surge protection	Yes						
Grid monitoring	Yes						
Anti-islanding protection	Yes						
Temperature protection	Yes						
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾						
Integrated DC switch	Optional						
General Data							
Dimensions (W*H*D)	310*543*160 mm						
Weight	11 kg	11.2 kg		12 kg			
Topology	Transformerless						
Self-consumption (night)	<1 W						
Operating ambient temperature range	-25 ~ +60°C						
Relative humidity	0-100%						
Ingress protection	IP66						
Cooling concept	Natural convection						
Max. operation altitude	4000 m						
Grid connection standard	G98 ⁽²⁾ or G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15 / VFR:2019, RD 1699 / RD 244 / UNE 206006 / UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA						
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-3						
Features							
DC connection	MC4 connector						
AC connection	Quick connection plug						
Display	LCD						
Communication	RS485, Optional: Wi-Fi, GPRS						

(1) Activation required. (2) G98 for 2.5K-3.6K.

S6-GR1P(2.5-6)K-S

Solis Single Phase Inverters

Features:

- String current up to 16A
- Integrated with zero export power control function
- Light weight with compact design for easy installation
- 2 MPPT design with precise MPPT algorithm

Models:

S6-GR1P2.5K-S / S6-GR1P3K-S
S6-GR1P3.6K-S / S6-GR1P4K-S
S6-GR1P4.6K-S / S6-GR1P5K-S
S6-GR1P6K-S



DATASHEET

S6-GR1P(2.5-6)K-S

Models	2.5K	3K	3.6K	4K	4.6K	5K	6K
Input DC							
Recommended max. PV power	3.75 kW	4.5 kW	5.4 kW	6 kW	6.9 kW	7.5 kW	9 kW
Max. input voltage	550 V						
Rated voltage	250 V	330 V					
Start-up voltage	60 V	100 V					
MPPT voltage range	50-550 V	90-550 V					
Max. input current	16 A / 16 A						
Max. short circuit current	22 A / 22 A						
MPPT number/Max. input strings number	2/2						
Output AC							
Rated output power	2.5 kW	3 kW	3.6 kW	4 kW	4.6 kW	5 kW	6 kW
Max. apparent output power	2.5 kVA	3 kVA	3.6 kVA	4 kVA	4.6 kVA	5 kVA	6 kVA
Max. output power	2.5 kW	3 kW	3.6 kW	4 kW	4.6 kW	5 kW	6 kW
Rated grid voltage	1/N/PE, 220 V / 230 V						
Rated grid frequency	50 Hz / 60 Hz						
Rated grid output current	11.4 A / 10.9 A	13.6 A / 13 A	16 A / 15.7 A	18.2 A / 17.4 A	20.9 A / 20 A	22.7 A / 21.7 A	27.3 A / 26.1 A
Max. output current	11.4 A	13.6 A	16 A	18.2 A	20.9 A	22.7 A	27.3 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)						
THDi	<3%						
Efficiency							
Max. efficiency	97.3%	97.3%		97.6%		97.7%	
EU efficiency	96.5%	96.6%		97.1%		97.1%	
Protection							
DC reverse-polarity protection				Yes			
Short circuit protection				Yes			
Output over current protection				Yes			
Surge protection				Yes			
Grid monitoring				Yes			
Anti-islanding protection				Yes			
Temperature protection				Yes			
Integrated AFCI (DC arc-fault circuit protection)				Yes ⁽¹⁾			
Integrated DC switch				Yes			
General Data							
Dimensions (W*H*D)	330*371*161 mm						
Weight	8.2 kg	8.3 kg		8.9 kg			9 kg
Topology	Transformerless						
Self-consumption (night)	<1 W						
Operating ambient temperature range	-25 ~ +60°C						
Relative humidity	0-100%						
Ingress protection	IP66						
Cooling concept	Natural convection						
Max. operation altitude	4000 m						
Grid connection standard	G98 ⁽²⁾ or G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15 / VFR:2019, RD 1699 / RD 244 / UNE 206006 / UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, EIFS 2018.2, IEC 62116, IEC 61727, IEC60068, IEC 61683, EN 50530, MEA, PEA						
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-3						
Features							
DC connection	MC4 connector						
AC connection	Quick connection plug						
Display	LED + APP						
Communication	RS485, USB, Optional: Wi-Fi, GPRS						

(1) Activation required. (2) G98 for 2.5K-3.6K.

S6-GR1P(7-8)K2

Solis Single Phase Inverters

Features:

- Max. efficiency 97.7%
- String current up to 14A
- Wide voltage range and low startup voltage
- 2 MPPT design with precise MPPT algorithm
- Intergrated Export Power Manager (EPM)
- AFCI protection, proactively reduces fire risk
- Compact and lightweight
- Friendly and adaptable connection to the grid

Models:

S6-GR1P7K2
S6-GR1P8K2



DATASHEET

S6-GR1P(7-8)K2

Models	7K2	8K2
Input DC		
Recommended max. PV power	10.5 kW	12 kW
Max. input voltage	600 V	
Rated voltage	330 V	
Start-up voltage	90 V	
MPPT voltage range	90-520 V	
Max. input current	14 A / 28 A	
Max. short circuit current	19.5 A / 35 A	
MPPT number/Max. input strings number	2/3	
Output AC		
Rated output power	7 kW	8 kW
Max. apparent output power	7.7 kVA	8 kVA
Max. output power	7.7 kW	8 kW
Rated grid voltage	1/N/PE, 220 V / 230 V	
Rated grid frequency	50 Hz / 60 Hz	
Rated grid output current	31.8 A / 30.4 A	36.4 A / 34.8 A
Max. output current	35 A	36.4 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)	
THDi	<3%	
Efficiency		
Max. efficiency	97.7%	
EU efficiency	96.8%	
Protection		
DC reverse-polarity protection	Yes	
Short circuit protection	Yes	
Output over current protection	Yes	
Surge protection	Yes	
Grid monitoring	Yes	
Anti-islanding protection	Yes	
Temperature protection	Yes	
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾	
Integrated DC switch	Optional	
General Data		
Dimensions (W*H*D)	310*543*180 mm	
Weight	13 kg	
Topology	Transformerless	
Self-consumption (night)	<1 W	
Operating ambient temperature range	-25 ~ +60°C	
Relative humidity	0-100%	
Ingress protection	IP66	
Cooling concept	Natural convection	
Max. operation altitude	4000 m	
Grid connection standard	G98 or G99, EN 50549-1,RD 1699 / RD 244 / UNE 206006 / UNE 206007-1, IEC 62116, IEC 61727, IEC60068, IEC 61683, EN 50530	
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4	
Features		
DC connection	MC4 connector	
AC connection	Quick connection plug	
Display	LCD	
Communication	RS485, Optional: Wi-Fi, GPRS	

(1) Activation required.

S5-GR1P(9-10)K

Solis Single Phase Inverters

Features:

- Max. efficiency 98.0%
- Max. input current 14A
- Super high frequency switching technology
- Wide voltage range and low startup voltage
- 3 MPPT design with precise MPPT algorithm
- AFCI protection, proactively reduces fire risk
- Compact and lightweight
- Friendly and adaptable connection to the grid

Models:

S5-GR1P9K / S5-GR1P10K



DATASHEET

S5-GR1P(9-10)K

Models	9K	10K
Input DC		
Recommended max. PV power	13.5 kW	15 kW
Max. input voltage	600 V	
Rated voltage	330 V	
Start-up voltage	120 V	
MPPT voltage range	100-500 V	
Max. input current	14 A / 14 A / 14 A	
Max. short circuit current	22 A / 22 A / 22 A	
MPPT number/Max. input strings number	3 / 3	
Output AC		
Rated output power	9 kW	10 kW
Max. apparent output power	9.9 kVA	10 kVA
Max. output power	9.9 kW	10 kW
Rated grid voltage	1/N/PE, 220 V / 230 V	
Rated grid frequency	50 Hz / 60 Hz	
Rated grid output current	40.9 A / 39.1 A	45.5 A / 43.5 A
Max. output current	41.3 A	45.9 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)	
THDi	<3%	
Efficiency		
Max. efficiency	98.0%	
EU efficiency	97.1%	
Protection		
DC reverse-polarity protection	Yes	
Short circuit protection	Yes	
Output over current protection	Yes	
Surge protection	Yes	
Grid monitoring	Yes	
Anti-islanding protection	Yes	
Temperature protection	Yes	
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾	
Integrated DC switch	Optional	
General Data		
Dimensions (W*H*D)	333*579*253 mm	
Weight	18.5 kg	
Topology	Transformerless	
Self-consumption (night)	<1 W	
Operating ambient temperature range	-25 ~ +60°C	
Relative humidity	0-100%	
Ingress protection	IP66	
Cooling concept	Natural convection	
Max. operation altitude	4000 m	
Grid connection standard	G99, EN 50549-1, IEC 62116, IEC 61727, IEC60068, IEC 61683, EN 50530	
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4	
Features		
DC connection	MC4 connector	
AC connection	OT Terminal	
Display	LCD	
Communication	RS485, Optional: Wi-Fi, GPRS	

(1) Activation required.

S5-GR3P(5-10)K-LV

Solis Three Phase Inverters

Efficient

- Max. efficiency 98.0%
- String current up to 16A
- Wide voltage range and low startup voltage

Smart

- Supports export power control
- Supports RS485, WiFi, GPRS
- Scan to register on SolisCloud, supports remote upgrade and control

Safe

- IP66
- AFCI protection, proactively reduces fire risk
- Automatic voltage stabilization technology in weak grid conditions

Economic

- Compact design, simple installation and maintenance
- > 150% DC/AC ratio
- Supports high power modules for lower installation costs

Models:

- S5-GR3P5K-LV
- S5-GR3P6K-LV
- S5-GR3P10K-LV



DATASHEET

S5-GR3P(5-10)K-LV

Models	5K	6K	10K
Input DC			
Recommended max. PV power	7.5 kW	9 kW	15 kW
Max. input voltage	1100 V		
Rated voltage	330 V		
Start-up voltage	180 V		
MPPT voltage range	160-500 V		
Max. input current	16 A / 16 A		32 A / 32 A
Max. short circuit current	20 A / 20 A		40 A / 40 A
MPPT number/Max. input strings number	2/2		2/4
Output AC			
Rated output power	5 kW	6 kW	10 kW
Max. apparent output power	5.5 kVA	6.6 kVA	11 kVA
Max. output power	5.5 kW	6.6 kW	11 kW
Rated grid voltage	3/(N)/PE, 208 V / 220 V / 240 V		
Rated grid frequency	50 Hz / 60 Hz		
Rated grid output current	13.1 A	15.7 A	26.2 A
Max. output current	14.4 A	16.7 A	28.8 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)		
THDi	<2%		
Efficiency			
Max. efficiency	98.0%		
EU efficiency	97.5%		
Protection			
DC reverse-polarity protection	Yes		
Short circuit protection	Yes		
Output over current protection	Yes		
Surge protection	Yes		
Grid monitoring	Yes		
Anti-islanding protection	Yes		
Temperature protection	Yes		
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾		
Integrated DC switch	Optional		
General Data			
Dimensions (W*H*D)	310*563*219 mm		
Weight	17.8 kg	20 kg	
Topology	Transformerless		
Self-consumption (night)	<1 W		
Operating ambient temperature range	-25 ~ +60°C		
Relative humidity	0-100%		
Ingress protection	IP66		
Cooling concept	Natural convection		Intelligent redundant fan-cooling
Max. operation altitude	4000 m		
Grid connection standard	G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15 / VFR:2019, RD 1699 / RD 244 / UNE 206006 / UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530		
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4		
Features			
DC connection	MC4 connector		
AC connection	Quick connection plug		
Display	LCD		
Communication	RS485, Optional: Wi-Fi, GPRS		

(1) Activation required.

S6-GR3P(5-15)K-LV

Solis Three Phase Inverters

Efficient

- Max. efficiency 98.0%
- String current up to 20A
- Wide voltage range and low startup voltage

Smart

- Supports export power control
- Supports RS485, WiFi, GPRS
- Scan to register on SolisCloud, supports remote upgrade and control

Safe

- IP66
- AFCI protection, proactively reduces fire risk
- Automatic voltage stabilization technology in weak grid conditions

Economic

- Compact design, simple installation and maintenance
- > 150% DC/AC ratio
- Supports high power modules for lower installation costs

Models:

- S6-GR3P5K-LV
- S6-GR3P6K-LV
- S6-GR3P10K-LV
- S6-GR3P15K-LV



DATASHEET

S6-GR3P(5-15)K-LV

Models	5K	6K	10K	15K
Input DC				
Recommended max. PV power	7.5 kW	9 kW	15 kW	22.5 kw
Max. input voltage	1100 V			
Rated voltage	330 V			
Start-up voltage	180 V			
MPPT voltage range	160-500 V			
Max. input current	20 A / 20 A		40 A / 40 A	40 A / 40 A / 40 A
Max. short circuit current	25 A / 25 A		50 A / 50 A	50 A / 50 A / 50 A
MPPT number/Max. input strings number	2/2		2/4	3/6
Output AC				
Rated output power	5 kW	6 kW	10 kW	15 kW
Max. apparent output power	5.5 kVA	6.6 kVA	11 kVA	16.5 kVA
Max. output power	5.5 kW	6.6 kW	11 kW	16.5 kW
Rated grid voltage	3/(N)/PE, 208 V / 220 V / 240 V			
Rated grid frequency	50 Hz / 60 Hz			
Rated grid output current	13.1 A	15.7 A	26.2 A	39.4 A
Max. output current	13.1 A	15.7 A	26.2 A	43.3 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)			
THDi	<2%			
Efficiency				
Max. efficiency	98.0%			
EU efficiency	97.5%			
Protection				
DC reverse-polarity protection	Yes			
Short circuit protection	Yes			
Output over current protection	Yes			
Surge protection	Yes			
Grid monitoring	Yes			
Anti-islanding protection	Yes			
Temperature protection	Yes			
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾			
Integrated DC switch	Optional			
General Data				
Dimensions (W*H*D)	310*563*219 mm			
Weight	17.8 kg		20 kg	
Topology	Transformerless			
Self-consumption (night)	<1 W			
Operating ambient temperature range	-25 ~ +60°C			
Relative humidity	0-100%			
Ingress protection	IP66			
Cooling concept	Natural convection		Intelligent redundant fan-cooling	
Max. operation altitude	4000 m			
Grid connection standard	G98 or G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15 / VFR:2019, RD 1699 / RD 244 / UNE 206006 / UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530			
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4			
Features				
DC connection	MC4 connector			
AC connection	Quick connection plug			
Display	LCD			
Communication	RS485, Optional: Wi-Fi, GPRS			

(1) Activation required.

S5-GR3P(3-20)K

Solis Three Phase Inverters

Efficient

- Max. efficiency 98.7%
- String current up to 16A
- Wide voltage range and low startup voltage

Smart

- Supports export power control
- Supports RS485, WiFi, GPRS
- Scan to register on SolisCloud, supports remote upgrade and control

Safe

- IP66
- AFCI protection, proactively reduces fire risk
- Automatic voltage stabilization technology in weak grid conditions

Economic

- Compact design, simple installation and maintenance
- > 150% DC/AC ratio
- Supports high power modules for lower installation costs

Models:

S5-GR3P3K / S5-GR3P4K

S5-GR3P5K / S5-GR3P6K

S5-GR3P8K / S5-GR3P9K

S5-GR3P10K / S5-GR3P12K

S5-GR3P13K / S5-GR3P15K

S5-GR3P17K / S5-GR3P20K



360° View



DATASHEET

S5-GR3P(3-20)K

Models	3K	4K	5K	6K	8K	9K	10K	12K	13K	15K	17K	20K
Input DC												
Recommended max. PV power	4.5 kW	6 kW	7.5 kW	9 kW	12 kW	13.5 kW	15 kW	18 kW	19.5 kW	22.5 kW	25.5 kW	30 kW
Max. input voltage	1100 V											
Rated voltage	600 V											
Start-up voltage	180 V											
MPPT voltage range	160-1000 V											
Max. input current	16 A / 16 A							32 A / 32 A				
Max. short circuit current	20 A / 20 A							40 A / 40 A				
MPPT number/Max. input strings number	2/2							2/4				
Output AC												
Rated output power	3 kW	4 kW	5 kW	6 kW	8 kW	9 kW	10 kW	12 kW	13 kW	15 kW	17 kW	20 kW
Max. apparent output power	3.3 kVA	4.4 kVA	5.5 kVA	6.6 kVA	8.8 kVA	9.9 kVA	11 kVA	13.2 kVA	14.3 kVA	16.5 kVA	18.7 kVA	22 kVA
Max. output power	3.3 kW	4.4 kW	5.5 kW	6.6 kW	8.8 kW	9.9 kW	11 kW	13.2 kW	14.3 kW	16.5 kW	18.7 kW	22 kW
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V											
Rated grid frequency	50 Hz / 60 Hz											
Rated grid output current	4.6 A / 4.3 A	6.1 A / 5.8 A	7.6 A / 7.2 A	9.1 A / 8.7 A	12.2 A / 11.5 A	13.7 A / 13.0 A	15.2 A / 14.4 A	18.2 A / 17.3 A	19.8 A / 18.8 A	22.8 A / 21.7 A	25.8 A / 24.6 A	30.4 A / 28.9 A
Max. output current	4.7 A	6.4 A	7.9 A	9.5 A	12.7 A	14.3 A	15.9 A	19.1 A	20.7 A	23.8 A	27 A	31.8 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)											
THDi	<2%											
Efficiency												
Max. efficiency	98.3%				98.5%			98.6%			98.7%	
EU efficiency	97.7%				97.9%			98.0%			98.1%	
Protection												
DC reverse-polarity protection	Yes											
Short circuit protection	Yes											
Output over current protection	Yes											
Surge protection	Yes											
Grid monitoring	Yes											
Anti-islanding protection	Yes											
Temperature protection	Yes											
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾											
Integrated DC switch	Optional											
General Data												
Dimensions (W*H*D)	310*563*219 mm											
Weight	17.8 kg								18.8 kg		20 kg	
Topology	Transformerless											
Self-consumption (night)	<1 W											
Operating ambient temperature range	-25 ~ +60°C											
Relative humidity	0-100%											
Ingress protection	IP66											
Cooling concept	Natural convection							Intelligent redundant fan-cooling				
Max. operation altitude	4000 m											
Grid connection standard	G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15 / VFR:2019, RD 1699 / RD 244 / UNE 206006 / UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530											
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4											
Features												
DC connection	MC4 connector											
AC connection	Quick connection plug											
Display	LCD											
Communication	RS485, Optional: Wi-Fi, GPRS											

(1) Activation required.

S6-GR3P(3-30)K

Solis Three Phase Inverters

Efficient

- Max. efficiency 98.5%
- String current up to 20A
- Wide voltage range and low startup voltage

Smart

- Supports export power control
- Supports RS485, WiFi, GPRS
- Scan to register on SolisCloud, supports remote upgrade and control

Safe

- IP66
- AFCI protection, proactively reduces fire risk
- Automatic voltage stabilization technology in weak grid conditions

Economic

- Compact design, simple installation and maintenance
- > 150% DC/AC ratio
- Supports high power modules for lower installation costs

Models:

S6-GR3P3K / S6-GR3P4K / S6-GR3P5K

S6-GR3P6K / S6-GR3P8K / S6-GR3P9K

S6-GR3P10K / S6-GR3P12K / S6-GR3P13K

S6-GR3P15K / S6-GR3P17K / S6-GR3P20K

S6-GR3P25K / S6-GR3P25K-PRO / S6-GR3P30K

S6-GR3P30K-PRO



DATASHEET

S6-GR3P(3-30)K

Models	3K	4K	5K	6K	8K	9K	10K	12K	13K	15K	17K	20K	25K	30K	25K-PRO	30K-PRO
Input DC																
Recommended max. PV power	4.5 kW	6 kW	7.5 kW	9 kW	12 kW	13.5 kW	15 kW	18 kW	19.5 kW	22.5 kW	25.5 kW	30 kW	37.5 kW	45 kW	37.5 kW	45 kW
Max. input voltage	1100 V															
Rated voltage	600 V															
Start-up voltage	180 V															
MPPT voltage range	160-1000 V															
Max. input current	20 A / 20 A								40 A / 40 A						40 A / 40 A / 40 A	
Max. short circuit current	25 A / 25 A								50 A / 50 A						50 A / 50 A / 50 A	
MPPT number/Max. input strings number	2/2								2/4						3/6	
Output AC																
Rated output power	3 kW	4 kW	5 kW	6 kW	8 kW	9 kW	10 kW	12 kW	13 kW	15 kW	17 kW	20 kW	25 kW	30 kW	25 kW	30 kW
Max. apparent output power	3.3 kVA	4.4 kVA	5.5 kVA	6.6 kVA	8.8 kVA	9.9 kVA	11 kVA	13.2 kVA	14.3 kVA	16.5 kVA	18.7 kVA	22 kVA	27.5 kVA	33 kVA	27.5 kVA	33 kVA
Max. output power	3.3 kW	4.4 kW	5.5 kW	6.6 kW	8.8 kW	9.9 kW	11 kW	13.2 kW	14.3 kW	16.5 kW	18.7 kW	22 kW	27.5 kW	33 kW	27.5 kW	33 kW
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V															
Rated grid frequency	50 Hz / 60 Hz															
Rated grid output current	4.6 A / 4.3 A	6.1 A / 5.8 A	7.6 A / 7.2 A	9.1 A / 8.7 A	12.2 A / 11.5 A	13.7 A / 13.0 A	15.2 A / 14.4 A	18.2 A / 17.3 A	19.8 A / 18.8 A	22.8 A / 21.7 A	25.8 A / 24.6 A	30.4 A / 28.9 A	38.0 A / 36.1 A	45.6 A / 43.3 A	38.0 A / 36.1 A	45.6 A / 43.3 A
Max. output current	4.7 A	6.4 A	7.9 A	9.5 A	12.7 A	14.3 A	15.9 A	19.1 A	20.7 A	23.8 A	27 A	31.8 A	39.7 A	50.2 A	39.7 A	50.2 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)															
THDi	<2%															
Efficiency																
Max. efficiency	98.3%				98.4%						98.5%					
EU efficiency	97.7%				97.9%				98.0%			98.0%		98.1%		
Protection																
DC reverse-polarity protection									Yes							
Short circuit protection									Yes							
Output over current protection									Yes							
Surge protection									Yes							
Grid monitoring									Yes							
Anti-islanding protection									Yes							
Temperature protection									Yes							
Integrated AFCI (DC arc-fault circuit protection)									Yes ⁽¹⁾							
Integrated DC switch									Optional							
General Data																
Dimensions (W*H*D)									310*563*219 mm							
Weight	17.8 kg								18.8 kg		20 kg					
Topology	Transformerless															
Self-consumption (night)	<1 W															
Operating ambient temperature range	-25 ~ +60°C															
Relative humidity	0-100%															
Ingress protection	IP66															
Cooling concept	Natural convection								Intelligent redundant fan-cooling							
Max. operation altitude	4000 m															
Grid connection standard	G98 or G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15 / VFR:2019, RD 1699 / RD 244 / UNE 206006 / UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530															
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4															
Features																
DC connection	MC4 connector															
AC connection	Quick connection plug															
Display	LCD															
Communication	RS485, Optional: Wi-Fi, GPRS															

(1) Activation required.

Residential Power Plant Case Study

Microgrid Project in Hebei Province

This microgrid project in Hebei province uses Solis-3P(12-25)K-5G and Solis-(25-50)K-5G inverters. Through the configuration of an energy storage system, the project adopts the mode of "Self-use, surplus electricity exported & sold back to the grid". This has realized consumption of new green energy to the region and delivers a stable income of about 1.6 million yuan annually.

In addition, the system is monitored in real-time via the SolisCloud platform which offers intelligent digital functions, online system control, along with accurate operation and maintenance. This in turn makes power station management more efficient, convenient and cost effective.

This project demonstrates the technological progress and expansion of the solar industry, accelerating the development of clean, low-carbon energy.



Finland
6.7kW
S5-GR3P(3-20)K



USA
16kW
Solis-(2.5-6)K-4G-US



Australia
8.2kW
Solis-1P(2.5-6)K-4G



UK
2.8kW
S6-GR1P(2.5-6)K



China
2.7MW
GCI-3P(12-25)K-5G



Commercial & Industrial Solar PV Solutions

Solis industrial and commercial string inverter product line is rich, the power range covers 15kW - 125kW, no matter how large your design and requirements are, we can rely on our flexible products to provide you with the best industry green power solutions.

Solis provides the most extensive industrial and commercial string inverter products on the market, and the products are sold well in various countries and regions in the world. They perform well in various harsh and complex environments, and are very stable and reliable.

Solis' C&I products are compatible with modularity and flexibility in program design. From the perspective of inverter performance improvement, we provide an ideal solution for simplifying system planning and design. Including optimizing software algorithms, optimizing hardware port compatibility, etc., to improve system efficiency and reduce system investment costs.

The power range of Solis' C&I products covers a wide range, with a single power up to 125kW. High-efficiency and high-power-density inverters can reduce installation and maintenance workloads and improve overall cost efficiency.

Solis' C&I solutions are supplemented by a series of advanced digital services based on SolisCloud, simplifying the application difficulty of intelligent systems, and providing you with more complete, high-quality and efficient cloud intelligent operation and maintenance solutions.

Models: S5-GC(15-23)K-LV / S6-GC(20-30)K-LV

S5-GC36K-LV / S5-GC(25-50)K

S6-GC(33-50)K / S5-GC(50-60)K

Solis-(50-60)K-LV-5G / S5-GC(50-60)K-LV

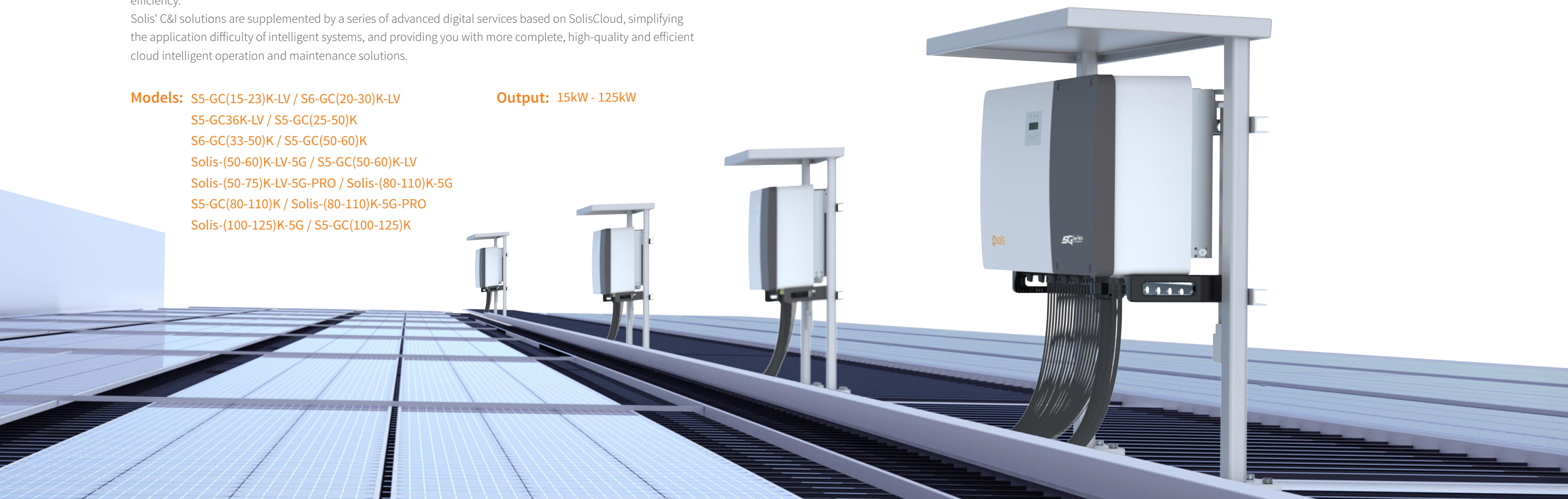
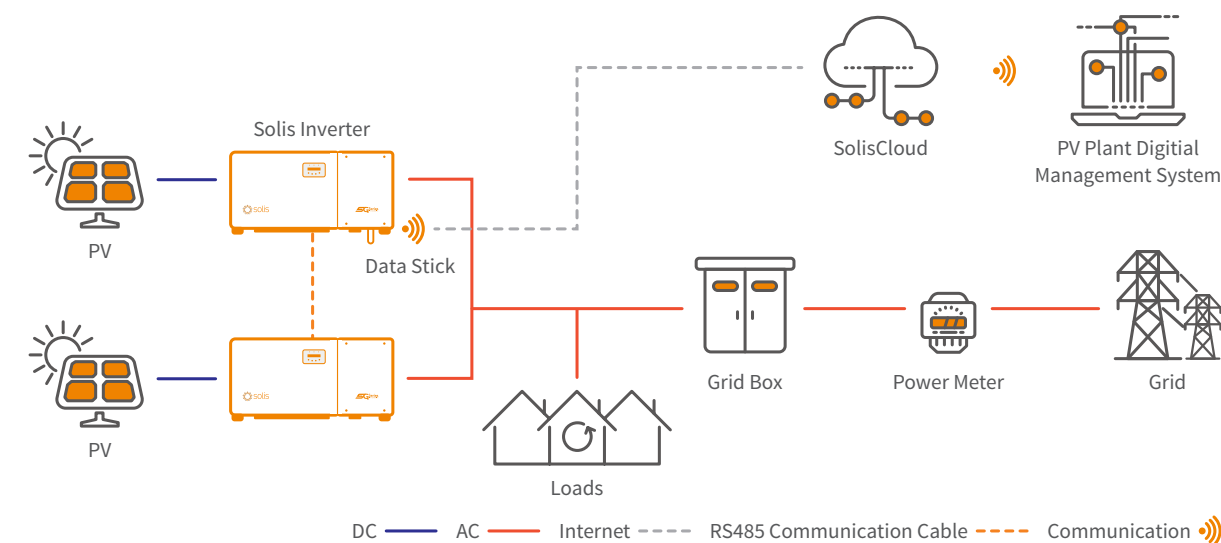
Solis-(50-75)K-LV-5G-PRO / Solis-(80-110)K-5G

S5-GC(80-110)K / Solis-(80-110)K-5G-PRO

Solis-(100-125)K-5G / S5-GC(100-125)K

Output: 15kW - 125kW

Commercial & Industrial Solar PV Solution



S5-GC(15-23)K-LV

Solis Three Phase Inverters

Efficient

- Max. efficiency 97.8%
- String current up to 16A
- 3 MPPT design, supports multiple orientation system design
- Night time PID recovery function, increases overall system yield (optional)
- Wide voltage range and low startup voltage

Smart

- Supports export power control
- Intelligent string monitoring, smart I-V curve scan
- Supports RS485, WiFi, GPRS
- Scan to register on SolisCloud, supports remote upgrade and control

Safe

- IP66
- AFCI protection, proactively reduces fire risk
- Globally recognised branded componentry for longer life
- Intelligent redundant fan-cooling

Economic

- Supports GPRS/WiFi communication with less wiring and reduced installation costs
- > 150% DC/AC ratio
- Supports high power modules for lower installation costs
- Supports aluminium wire access to reduce cost

Models:

- S5-GC15K-LV
- S5-GC20K-LV
- S5-GC23K-LV



360° View

DATASHEET

S5-GC(15-23)K-LV

Models	15K	20K	23K
Input DC			
Recommended max. PV power	22.5 kW	30 kW	34.5 kW
Max. input voltage	1100 V		
Rated voltage	600 V		
Start-up voltage	180 V		
MPPT voltage range	200-1000 V		
Max. input current	32 A / 32 A / 32 A		
Max. short circuit current	40 A / 40 A / 40 A		
MPPT number/Max. input strings number	3/6		
Output AC			
Rated output power	15 kW	20 kW	23 kW
Max. apparent output power	16.5 kVA	22 kVA	25 kVA
Max. output power	16.5 kW	22 kW	25 kW
Rated grid voltage	3/PE, 220 V		
Rated grid frequency	50 Hz / 60 Hz		
Rated grid output current	39.4 A	52.5 A	60.4 A
Max. output current	43.3 A	57.7 A	65 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)		
THDi	<3%		
Efficiency			
Max. efficiency	97.8%		
EU efficiency	97.3%		
Protection			
DC reverse-polarity protection	Yes		
Short circuit protection	Yes		
Output over current protection	Yes		
Surge protection	DC Type II / AC Type II		
Grid monitoring	Yes		
Anti-islanding protection	Yes		
Temperature protection	Yes		
Strings monitoring	Yes		
I/V Curve scanning	Yes		
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾		
Integrated PID recovery	Optional		
Integrated DC switch	Optional		
General Data			
Dimensions (W*H*D)	647*629*252 mm		
Weight	37 kg		
Topology	Transformerless		
Self-consumption (night)	<1 W		
Operating ambient temperature range	-25 ~ +60°C		
Relative humidity	0-100%		
Ingress protection	IP66		
Cooling concept	Intelligent redundant fan-cooling		
Max. operation altitude	4000 m		
Grid connection standard	G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15 / VFR:2019, RD 1699 / RD 244 / UNE 206006 / UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, EIFS 2018.2, IEC 62116, IEC 61727, IEC60068, IEC 61683, EN 50530		
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4		
Features			
DC connection	MC4 connector		
AC connection	OT terminal		
Display	LCD		
Communication	RS485, Optional: Wi-Fi, GPRS		

(1) Activation required.

S6-GC(20-30)K-LV

Solis Three Phase Inverters

Efficient

- Max. efficiency 97.8%
- String current up to 20A
- 3/4 MPPT design, supports multiple orientation system design
- Night time PID recovery function, increases overall system yield (optional)
- Wide voltage range and low startup voltage

Smart

- Supports export power control
- Supports RS485, WiFi, GPRS
- Scan to register on SolisCloud, supports remote upgrade and control

Safe

- IP66
- AFCI protection, proactively reduces fire risk
- Globally recognised branded componentry for longer life
- Intelligent redundant fan-cooling

Economic

- Supports GPRS/WiFi communication with less wiring and reduced installation costs
- > 150% DC/AC ratio
- Supports high power modules for lower installation costs
- Supports aluminium wire access to reduce cost

Models:

- S6-GC20K-LV
- S6-GC23K-LV
- S6-GC25K-LV
- S6-GC30K-LV



DATASHEET

S6-GC(20-30)K-LV

Models	20K	23K	25K	30K
Input DC				
Recommended max. PV power	34.5 kW	37.5 kW	45 kW	45 kW
Max. input voltage	1100 V			
Rated voltage	330 V			
Start-up voltage	180 V			
MPPT voltage range	200-1000 V			
Max. input current	40 A / 40 A / 40 A			4*40 A
Max. short circuit current	50 A / 50 A / 50 A			4*50 A
MPPT number/Max. input strings number	3/6			4/8
Output AC				
Rated output power	20 kW	23 kW	25 kW	30 kW
Max. apparent output power	22 kVA	25 kVA	27.5 kVA	30 kVA
Max. output power	22 kW	25 kW	27.5 kW	30 kW
Rated grid voltage	3/PE, 220 V			
Rated grid frequency	50 Hz / 60 Hz			
Rated grid output current	52.5 A	60.4 A	65.6 A	78.7 A
Max. output current	57.7 A	65 A	72.2 A	78.7 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)			
THDi	<3%			
Efficiency				
Max. efficiency	97.8%			
EU efficiency	97.3%			
Protection				
DC reverse-polarity protection	Yes			
Short circuit protection	Yes			
Output over current protection	Yes			
Surge protection	DC Type II / AC Type II			
Grid monitoring	Yes			
Anti-islanding protection	Yes			
Temperature protection	Yes			
Strings monitoring	Yes			
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾			
Integrated PID recovery	Optional			
Integrated DC switch	Optional			
General Data				
Dimensions (W*H*D)	647*629*252 mm			
Weight	37 kg			
Topology	Transformerless			
Self-consumption (night)	<1 W			
Operating ambient temperature range	-25 ~ +60°C			
Relative humidity	0-100%			
Ingress protection	IP66			
Cooling concept	Intelligent redundant fan-cooling			
Max. operation altitude	4000 m			
Grid connection standard	G98 or G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15 / VFR:2019, RD 1699 / RD 244 / UNE 206006 / UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, IEC60068, IEC 61683, EN 50530			
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4			
Features				
DC connection	MC4 connector			
AC connection	OT terminal			
Display	LCD			
Communication	RS485, Optional: Wi-Fi, GPRS			

(1) Activation required.

S5-GC36K-LV

Solis Three Phase Inverters

Efficient

- Max. efficiency 98.4%
- String current up to 16A
- 4 MPPT design, supports multiple orientation system design
- Night time PID recovery function, increases overall system yield (optional)

Smart

- Night SVG function
- Supports export power control
- Intelligent string monitoring, smart I-V curve scan
- Scan to register on SolisCloud, supports remote upgrade and control

Safe

- IP66, C5 Anti-Corrosion Level
- Intelligent redundant fan-cooling
- AFCI protection, proactively reduces fire risk
- Globally recognised branded componentry for longer life

Economic

- Supports GPRS/WiFi communication with less wiring and reduced installation costs
- DC side supports "Y" connector
- Supports aluminium wire access to reduce cost
- 8 string inputs allow for 150%+ DC oversizing

Models:

S5-GC36K-LV



360° View



DATASHEET

S5-GC36K-LV

Models	36K
Input DC	
Max. input voltage	1100 V
Rated voltage	360 V
Start-up voltage	195 V
MPPT voltage range	180-1000 V
Max. input current	4*32 A
Max. short circuit current	4*40 A
MPPT number/Max. input strings number	4/8
Output AC	
Rated output power	36 kW
Max. apparent output power	36 kVA
Max. output power	36 kW
Rated grid voltage	3/(N)/PE, 220 V
Rated grid frequency	50 Hz / 60 Hz
Rated grid output current	94.5 A
Max. output current	94.5 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)
THDi	<3%
Efficiency	
Max. efficiency	98.4%
EU efficiency	98.0%
Protection	
DC reverse-polarity protection	Yes
Short circuit protection	Yes
Output over current protection	Yes
Surge protection	DC Type II / AC Type II
Grid monitoring	Yes
Anti-islanding protection	Yes
Temperature protection	Yes
Strings monitoring	Yes
I/V Curve scanning	Yes
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾
Integrated PID recovery	Optional ⁽²⁾
Integrated DC switch	Optional
General Data	
Dimensions (W*H*D)	691*578*338 mm
Weight	54.5 kg
Topology	Transformerless
Self-consumption (night)	<1 W
Operating ambient temperature range	-25 ~ +60°C
Relative humidity	0-100%
Ingress protection	IP66
Cooling concept	Intelligent redundant fan-cooling
Max. operation altitude	4000 m
Grid connection standard	UL 1741, IEEE 1547, NBR 16149, NBR 16150, C10-11, REN 342
Safety/EMC standard	IEC 62109-1/-2, IEC62116 & IEC 61000-6-1/-2/-3/-4
Features	
DC connection	MC4 connector
AC connection	OT terminal (max. 70 mm ²)
Display	LCD, Capacitive touch buttons
Communication	RS485, USB, Optional: Wi-Fi, GPRS

(1) Activation required. (2) Due to the similar functional logic, when the night time PID-Recovery function is integrated, the night time var compensation function can not be used. Also, the negative grounding option is not available for inverters with night time PID-Recovery function.

S5-GC(25-50)K

Solis Three Phase Inverters

Efficient

- Max. efficiency 98.8%
- String current up to 16A
- 3/4 MPPT design, supports multiple orientation system design
- Night time PID recovery function, increases overall system yield (optional)
- Wide voltage range and low startup voltage

Smart

- Supports export power control
- Intelligent string monitoring, smart I-V curve scan
- Supports RS485, WiFi, GPRS
- Scan to register on SolisCloud, supports remote upgrade and control

Safe

- IP66
- AFCI protection, proactively reduces fire risk
- Globally recognised branded componentry for longer life
- Intelligent redundant fan-cooling

Economic

- Supports GPRS/WiFi communication with less wiring and reduced installation costs
- > 150% DC/AC ratio
- Supports high power modules for lower installation costs
- Supports aluminium wire access to reduce cost

Models:

S5-GC25K / S5-GC30K

S5-GC33K / S5-GC36K

S5-GC40K / S5-GC40K-HV

S5-GC50K-HV



360° View

DATASHEET

S5-GC(25-50)K

Models	25K	30K	33K	36K	40K	40K-HV	50K-HV
Input DC							
Recommended max. PV power	37.5 kW	45 kW	49.5 kW	54 kW	60 kW	60 kW	75 kW
Max. input voltage	1100 V						
Rated voltage	600 V						
Start-up voltage	180 V						
MPPT voltage range	200-1000 V						
Max. input current	32 A / 32 A / 32 A			4*32 A			
Max. short circuit current	40 A / 40 A / 40 A			4*40 A			
MPPT number/Max. input strings number	3/6			4/8			
Output AC							
Rated output power	25 kW	30 kW	33 kW	36 kW	40 kW	40 kW	50 kW
Max. apparent output power	27.5 kVA	33 kVA	36.3 kVA	39.6 kVA	44 kVA	44 kVA	55 kVA
Max. output power	27.5 kW	33 kW	36.3 kW	39.6 kW	44 kW	44 kW	55 kW
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V					3/PE, 480 V	
Rated grid frequency	50 Hz / 60 Hz						
Rated grid output current	38.0 A / 36.1 A	45.6 A / 43.3 A	50.1 A / 47.6 A	54.7 A / 52.0 A	60.8 A / 57.7 A	48.1 A	60.1 A
Max. output current	41.8 A	50.2 A	55.1 A	60.2 A	66.9 A	53.0 A	66.2 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)						
THDi	<3%						
Efficiency							
Max. efficiency	98.5%		98.6%	98.7%		98.8%	
EU efficiency	98.1%		98.2%	98.3%		98.4%	
Protection							
DC reverse-polarity protection	Yes						
Short circuit protection	Yes						
Output over current protection	Yes						
Surge protection	DC Type II / AC Type II						
Grid monitoring	Yes						
Anti-islanding protection	Yes						
Temperature protection	Yes						
Strings monitoring	Yes						
I/V Curve scanning	Yes						
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾						
Integrated PID recovery	Optional						
Integrated DC switch	Optional						
General Data							
Dimensions (W*H*D)	647*629*252 mm						
Weight	37 kg						
Topology	Transformerless						
Self-consumption (night)	<1 W						
Operating ambient temperature range	-25 ~ +60°C						
Relative humidity	0-100%						
Ingress protection	IP66						
Cooling concept	Intelligent redundant fan-cooling						
Max. operation altitude	4000 m						
Grid connection standard	G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15 / VFR:2019, RD 1699 / RD 244 / UNE 206006 / UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, EIFS 2018.2, IEC 62116, IEC 61727, IEC60068, IEC 61683, EN 50530						
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4						
Features							
DC connection	MC4 connector						
AC connection	OT terminal						
Display	LCD						
Communication	RS485, Optional: Wi-Fi, GPRS						

(1) Activation required.

S6-GC(33-50)K

Solis Three Phase Inverters

Efficient

- Max. efficiency 98.7%
- String current up to 20A
- 3/4 MPPT design, supports multiple orientation system design
- Night time PID recovery function, increases overall system yield (optional)
- Wide voltage range and low startup voltage

Smart

- Supports export power control
- Supports RS485, WiFi, GPRS
- Scan to register on SolisCloud, supports remote upgrade and control

Safe

- IP66
- AFCI protection, proactively reduces fire risk
- Globally recognised branded componentry for longer life
- Intelligent redundant fan-cooling

Economic

- Supports GPRS/WiFi communication with less wiring and reduced installation costs
- > 150% DC/AC ratio
- Supports high power modules for lower installation costs
- Supports aluminium wire access to reduce cost

Models:

S6-GC33K / S6-GC36K
S6-GC40K / S6-GC50K



DATASHEET

S6-GC(33-50)K

Models	33K	36K	40K	50K
Input DC				
Recommended max. PV power	49.5 kW	54 kW	60 kW	75 kW
Max. input voltage	1100 V			
Rated voltage	600 V			
Start-up voltage	180 V			
MPPT voltage range	200-1000 V			
Max. input current	40 A / 40 A / 40 A	4*40 A		
Max. short circuit current	50 A / 50 A / 50 A	4*50 A		
MPPT number/Max. input strings number	3/6	4/8		
Output AC				
Rated output power	33 kW	36 kW	40 kW	50 kW
Max. apparent output power	36.3 kVA	39.6 kVA	44 kVA	55 kVA
Max. output power	36.3 kW	39.6 kW	44 kW	55 kW
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V			
Rated grid frequency	50 Hz / 60 Hz			
Rated grid output current	50.1 A / 47.6 A	54.7 A / 52.0 A	60.8 A / 57.7 A	76.0 A / 72.2 A
Max. output current	55.1 A / 52.4 A	60.2 A / 57.2 A	66.9 A / 63.5 A	83.6 A / 79.4 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)			
THDi	<3%			
Efficiency				
Max. efficiency	98.6%	98.7%		
EU efficiency	98.1%			
Protection				
DC reverse-polarity protection	Yes			
Short circuit protection	Yes			
Output over current protection	Yes			
Surge protection	DC Type II / AC Type II			
Grid monitoring	Yes			
Anti-islanding protection	Yes			
Temperature protection	Yes			
Strings monitoring	Yes			
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾			
Integrated PID recovery	Optional			
Integrated DC switch	Optional			
General Data				
Dimensions (W*H*D)	647*629*252 mm			
Weight	37 kg			
Topology	Transformerless			
Self-consumption (night)	<1 W			
Operating ambient temperature range	-25 ~ +60°C			
Relative humidity	0-100%			
Ingress protection	IP66			
Cooling concept	Intelligent redundant fan-cooling			
Max. operation altitude	4000 m			
Grid connection standard	G98 or G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15 / VFR:2019, RD 1699 / RD 244 / UNE 206006 / UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, IEC60068, IEC 61683, EN 50530			
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4			
Features				
DC connection	MC4 connector			
AC connection	OT terminal			
Display	LCD			
Communication	RS485, Optional: Wi-Fi, GPRS			

(1) Activation required.

S5-GC(50-60)K

Solis Three Phase Inverters

Efficient

- Max. efficiency 98.7%
- String current up to 16A
- 5/6 MPPT design, supports multiple orientation system design
- Night time PID recovery function, increases overall system yield (optional)

Smart

- Night SVG function
- Supports export power control
- Intelligent string monitoring, smart I-V curve scan
- Scan to register on SolisCloud, supports remote upgrade and control

Safe

- IP66, C5 Anti-Corrosion Level
- Intelligent redundant fan-cooling
- Globally recognised branded componentry for longer life
- AFCI protection, proactively reduces fire risk

Economic

- Supports GPRS/WiFi communication with less wiring and reduced installation costs
- DC side supports "Y" connector
- Supports aluminium wire access to reduce cost
- 10/12 string inputs allow for 150%+ DC oversizing

Models:

S5-GC50K / S5-GC60K



360° View



DATASHEET

S5-GC(50-60)K

Models	50K		60K	
Input DC				
Max. input voltage			1100 V	
Rated voltage			600 V	
Start-up voltage			195 V	
MPPT voltage range			180-1000 V	
Max. input current	5*32 A		6*32 A	
Max. short circuit current	5*40 A		6*40 A	
MPPT number/Max. input strings number	5/10		6/12	
Output AC				
Rated output power	50 kW		60 kW	
Max. apparent output power	55 kVA		66 kVA	
Max. output power	55 kW		66 kW	
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V			
Rated grid frequency	50 Hz / 60 Hz			
Rated grid output current	76.0 A / 72.2 A		91.2 A / 86.6 A	
Max. output current	83.6 A		100.3 A	
Power factor	>0.99 (0.8 leading - 0.8 lagging)			
THDi	<3%			
Efficiency				
Max. efficiency			98.7%	
EU efficiency			98.3%	
Protection				
DC reverse-polarity protection			Yes	
Short circuit protection			Yes	
Output over current protection			Yes	
Surge protection	DC Type II / AC Type II			
Grid monitoring			Yes	
Anti-islanding protection			Yes	
Temperature protection			Yes	
Strings monitoring			Yes	
I/V Curve scanning			Yes	
Integrated AFCI (DC arc-fault circuit protection)			Yes ⁽¹⁾	
Integrated PID recovery			Optional ⁽²⁾	
Integrated DC switch			Optional	
General Data				
Dimensions (W*H*D)	691*578*338 mm			
Weight	54.5 kg			
Topology	Transformerless			
Self-consumption (night)	<1 W			
Operating ambient temperature range	-25 ~ +60°C			
Relative humidity	0-100%			
Ingress protection	IP66			
Cooling concept	Intelligent redundant fan-cooling			
Max. operation altitude	4000 m			
Grid connection standard	G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15 / VFR:2019, RD 1699 / RD 244 / UNE 206006 / UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, EIFS 2018.2, IEC 62116, IEC 61727, IEC60068, IEC 61683, EN 50530			
Safety/EMC standard	IEC 62109-1/-2, IEC62116 & IEC 61000-6-1/-2/-3/-4			
Features				
DC connection	MC4 connector			
AC connection	OT terminal (max. 70 mm²)			
Display	LCD, Capacitive touch buttons			
Communication	RS485, USB, Optional: Wi-Fi, GPRS			

(1) Activation required. (2) Due to the similar functional logic, when the night time PID-Recovery function is integrated, the night time var compensation function can not be used. Also, the negative grounding option is not available for inverters with night time PID-Recovery function.

Solis-(50-60)K-LV-5G

Solis Three Phase Inverters

Efficient

- 6/8 MPPTs, max. efficiency 98.5%
- > 170% DC/AC ratio
- High power tracking density 130MPPT/MW
- Compatible with bifacial modules

Smart

- Night SVG function
- Intelligent string monitoring, smart I-V curve scan
- Remote firmware upgrade with simple operation

Safe

- AFCI protection, proactively reduces fire risk
- Built-in PID recovery for better module performance (optional)
- Type I SPD for AC (optional)
- Overvoltage load reduction and leakage current suppression technology, low failure rate
- Globally recognised branded componentry for longer life

Economic

- Power line communication (PLC) (optional)
- DC side supports "Y" connector
- Supports aluminium wire access to reduce cost

Models:

Solis-50K-LV-5G

Solis-60K-LV-5G



DATASHEET

Solis-(50-60)K-LV-5G

Models	50K	60K
Input DC		
Max. input voltage	1100 V	
Rated voltage	450	
Start-up voltage	195 V	
MPPT voltage range	180-1000 V	
Max. input current	6*26 A	8*26 A
Max. short circuit current	6*40 A	8*40 A
MPPT number/Max. input strings number	6/12	8/16
Output AC		
Rated output power	50 kW	60 kW
Max. apparent output power	55 kVA	66 kVA
Max. output power	55 kW	66 kW
Rated grid voltage	3/(N)/PE, 220 V	
Rated grid frequency	50 Hz / 60 Hz	
Rated grid output current	131.2 A	157.5 A
Max. output current	144.3 A	173.2 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)	
THDi	<3%	
Efficiency		
Max. efficiency	98.5%	
EU efficiency	98.1%	
Protection		
DC reverse-polarity protection	Yes	
Short circuit protection	Yes	
Output over current protection	Yes	
Surge protection	DC Type II / AC Type II (AC Type I optional)	
Grid monitoring	Yes	
Anti-islanding protection	Yes	
Temperature protection	Yes	
Strings monitoring	Yes	
I/V Curve scanning	Yes	
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾	
Integrated PID recovery	Optional	
Integrated DC switch	Yes	
Integrated AC switch	Optional	
General Data		
Dimensions (W*H*D)	1065*567*344.5 mm	
Weight	81 kg	87 kg
Topology	Transformerless	
Self-consumption (night)	<2 W	
Operating ambient temperature range	-30 ~ +60°C	
Relative humidity	0-100%	
Ingress protection	IP66	
Cooling concept	Intelligent redundant fan-cooling	
Max. operation altitude	4000 m	
Grid connection standard	IEC 61727, IEC 62116, C10/11, VDE 4105, VDE-AR-N 4110, IEEE 1547	
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4	
Features		
DC connection	MC4 connector	
AC connection	OT terminal (max. 185 mm²)	
Display	LCD	
Communication	RS485, Optional: Wi-Fi, GPRS, PLC	

(1) Activation required.

S5-GC(50-60)K-LV

Solis Three Phase Inverters

Efficient

- 6/8 MPPTs, max. efficiency 98.5%
- > 170% DC/AC ratio
- High power tracking density 130MPPT/MW
- String current up to 16A, perfectly match large current bifacial modules

Smart

- Night SVG function
- Intelligent string monitoring, smart I-V curve scan
- Remote firmware upgrade with simple operation

Safe

- AFCI protection, proactively reduces fire risk
- Built-in PID recovery for better module performance (optional)
- Type I SPD for AC (optional)
- Overvoltage load reduction and leakage current suppression technology, low failure rate
- Globally recognised branded componentry for longer life

Economic

- Power line communication (PLC) (optional)
- DC side supports "Y" connector
- Supports aluminium wire access to reduce cost

Models:

S5-GC50K-LV
S5-GC60K-LV



DATASHEET

S5-GC(50-60)K-LV

Models	50K	60K
Input DC		
Max. input voltage	1100 V	
Rated voltage	450	
Start-up voltage	195 V	
MPPT voltage range	180-1000 V	
Max. input current	6*32 A	8*32 A
Max. short circuit current	6*40 A	8*40 A
MPPT number/Max. input strings number	6/12	8/16
Output AC		
Rated output power	50 kW	60 kW
Max. apparent output power	55 kVA	66 kVA
Max. output power	55 kW	66 kW
Rated grid voltage	3/(N)/PE, 220 V	
Rated grid frequency	50 Hz / 60 Hz	
Rated grid output current	131.2 A	157.5 A
Max. output current	144.3 A	173.2 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)	
THDi	<3%	
Efficiency		
Max. efficiency	98.5%	
EU efficiency	98.1%	
Protection		
DC reverse-polarity protection	Yes	
Short circuit protection	Yes	
Output over current protection	Yes	
Surge protection	DC Type II / AC Type II (AC Type I optional)	
Grid monitoring	Yes	
Anti-islanding protection	Yes	
Temperature protection	Yes	
Strings monitoring	Yes	
I/V Curve scanning	Yes	
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾	
Integrated PID recovery	Optional	
Integrated DC switch	Yes	
Integrated AC switch	Optional	
General Data		
Dimensions (W*H*D)	1065*567*344.5 mm	
Weight	89 kg	
Topology	Transformerless	
Self-consumption (night)	<2 W	
Operating ambient temperature range	-30 ~ +60°C	
Relative humidity	0-100%	
Ingress protection	IP66	
Cooling concept	Intelligent redundant fan-cooling	
Max. operation altitude	4000 m	
Grid connection standard	IEC 61727, IEC 62116, C10/11, VDE 4105, VDE-AR-N 4110, IEEE 1547	
Safety/EMC standard	IEC62109-1/-2, EN61000-6-1/-2/-3/-4, UL1741	
Features		
DC connection	MC4 connector	
AC connection	OT terminal (max. 185 mm²)	
Display	LCD	
Communication	RS485, Optional: Wi-Fi, GPRS, PLC	

(1) Activation required.

Solis-(50-75)K-LV-5G-PRO

Solis Three Phase Inverters

Efficient

- 8 MPPTs, max. efficiency 98.5%
- > 150% DC/AC ratio
- Compatible with bifacial modules

Smart

- Night SVG function
- Intelligent string monitoring, smart I-V curve scan
- Remote firmware upgrade with simple operation

Safe

- IP66
- AFCI protection, proactively reduces fire risk
- Built-in PID recovery for better module performance (optional)
- Globally recognised branded componentry for longer life

Economic

- Power line communication (PLC) (optional)
- DC side supports "Y" connector
- Supports aluminium wire access to reduce cost

Models:

- Solis-50K-LV-5G-PRO
- Solis-60K-LV-5G-PRO
- Solis-75K-LV-5G-PRO



DATASHEET

Solis-(50-75)K-LV-5G-PRO

Models	50K		60K	75K
Input DC				
Max. input voltage			800 V	
Rated voltage			450 V	
Start-up voltage			180 V	
MPPT voltage range			160-1000 V	
Max. input current	8*20A		12*20A	
Max. short circuit current			8*50 A	
MPPT number/Max. input strings number	8/8		8/12 ⁽¹⁾	
Output AC				
Rated output power	50 kW		60 kW	75 kW
Max. apparent output power	55 kVA		66 kVA	75 kVA
Max. output power	55 kW		66 kW	75 kW
Rated grid voltage			3/(N)/PE, 220 V	
Rated grid frequency			50 Hz / 60 Hz	
Rated grid output current	131.2 A		157.5 A	196.8 A
Max. output current	144.3 A		173.2 A	196.8 A
Power factor			>0.99 (0.8 leading - 0.8 lagging)	
THDi			<3%	
Efficiency				
Max. efficiency			98.5%	
EU efficiency			98.0%	
Protection				
DC reverse-polarity protection			Yes	
Short circuit protection			Yes	
Output over current protection			Yes	
Surge protection			DC Type II / AC Type II	
Grid monitoring			Yes	
Anti-islanding protection			Yes	
Temperature protection			Yes	
Strings monitoring			Yes	
I/V Curve scanning			Yes	
Integrated AFCI (DC arc-fault circuit protection)			Yes ⁽²⁾	
Integrated PID Recovery			Optional	
Integrated DC switch			Yes	
Integrated AC switch			Optional	
General Data				
Dimensions (W*H*D)			1183*585*363 mm	
Weight			93 kg	
Topology			Transformerless	
Self-consumption (night)			<2 W	
Operating ambient temperature range			-30 ~ +60°C	
Relative humidity			0-100%	
Ingress protection			IP66	
Cooling concept			Intelligent redundant fan-cooling	
Max. operation altitude			4000 m	
Grid connection standard			IEC 61727, IEC 62116, C10/11, VDE 4105, IEEE 1547	
Safety/EMC standard			IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4	
Features				
DC connection			MC4 connector	
AC connection			OT terminal	
Display			LCD	
Communication			RS485, Optional: Wi-Fi, GPRS, PLC	

(1) One string per MPPT (PV2, PV4, PV6, PV8). (2) Activation required.

Solis-(80-110)K-5G

Solis Three Phase Inverters

Efficient

- 9/10 MPPTs, max. efficiency 98.8%
- > 150% DC/AC ratio
- Compatible with bifacial modules

Smart

- Night SVG function
- Intelligent string monitoring, smart I-V curve scan
- Remote firmware upgrade with simple operation

Safe

- IP66
- Built-in PID recovery for better module performance (optional)
- AFCI protection, proactively reduces fire risk
- Globally recognised branded componentry for longer life

Economic

- Power line communication (PLC) (optional)
- DC side supports "Y" connector
- Supports aluminium wire access to reduce cost

Models:

Solis-80K-5G

Solis-100K-HV-5G

Solis-110K-BHV-5G



DATASHEET

Solis-(80-110)K-5G

Models	80K	100K-HV	110K-BHV
Input DC			
Max. input voltage	1100 V		
Rated voltage	600 V	720 V	
Start-up voltage	195 V		
MPPT voltage range	180-1000 V		
Max. input current	9*26 A	10*26 A	
Max. short circuit current	9*40 A	10*40 A	
MPPT number/Max. input strings number	9/18	10/20	
Output AC			
Rated output power	80 kW	100 kW	110 kW
Max. apparent output power	88 kVA	110 kVA	121 kVA
Max. output power	88 kW	110 kW	121 kW
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V	3/PE, 480 V	3/PE, 540 V
Rated grid frequency	50 Hz / 60 Hz		
Rated grid output current	121.6 A / 115.5 A	120.3 A	117.6 A
Max. output current	133.7 A	132.3 A	129.4 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)		
THDi	<3%		
Efficiency			
Max. efficiency	98.7%	98.8%	
EU efficiency	98.3%	98.5%	
Protection			
DC reverse-polarity protection	Yes		
Short circuit protection	Yes		
Output over current protection	Yes		
Surge protection	DC Type II / AC Type II		
Grid monitoring	Yes		
Anti-islanding protection	Yes		
Temperature protection	Yes		
Strings monitoring	Yes		
I/V Curve scanning	Yes		
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾		
Integrated PID recovery	Optional		
Integrated DC switch	Yes		
Integrated AC switch	Optional		
General Data			
Dimensions (W*H*D)	1050*567*314.5 mm (with AC switch)		
Weight	82 kg		
Topology	Transformerless		
Self-consumption (night)	<2 W		
Operating ambient temperature range	-30 ~ +60°C		
Relative humidity	0-100%		
Ingress protection	IP66		
Cooling concept	Intelligent redundant fan-cooling		
Max. operation altitude	4000 m		
Grid connection standard	G98 or G99, VDE-AR-N 4105 / VDE-AR-N 4110 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15 / VFR:2019, CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530		
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4		
Features			
DC connection	MC4 connector		
AC connection	OT terminal (max. 185 mm²)		
Display	LCD		
Communication	RS485, Optional: Wi-Fi, GPRS, PLC		

(1) Activation required.

S5-GC(80-110)K

Solis Three Phase Inverters

Efficient

- 9/10 MPPTs, max. efficiency 98.8%
- > 150% DC/AC ratio
- String current up to 16A, perfectly match large current bifacial modules

Smart

- Night SVG function
- Intelligent string monitoring, smart I-V curve scan
- Remote firmware upgrade with simple operation

Safe

- IP66
- Built-in PID recovery for better module performance (optional)
- AFCI protection, proactively reduces fire risk
- Globally recognised branded componentry for longer life

Economic

- Power line communication (PLC) (optional)
- DC side supports "Y" connector
- Supports aluminium wire access to reduce cost

Models:

- S5-GC80K
- S5-GC100K-HV
- S5-GC110K-BHV



DATASHEET

S5-GC(80-110)K

Models	80K		100K-HV	110K-BHV
Input DC				
Max. input voltage	1100 V			
Rated voltage	600 V	720 V		
Start-up voltage	195 V			
MPPT voltage range	180-1000 V			
Max. input current	9*32 A	10*32 A		
Max. short circuit current	9*40 A	10*40 A		
MPPT number/Max. input strings number	9/18	10/20		
Output AC				
Rated output power	80 kW	100 kW	110 kW	
Max. apparent output power	88 kVA	110 kVA	121 kVA	
Max. output power	88 kW	110 kW	121 kW	
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V		3/PE, 480 V	3/PE, 540 V
Rated grid frequency	50 Hz / 60 Hz			
Rated grid output current	121.6 A / 115.5 A	120.3 A	117.6 A	
Max. output current	133.7 A	132.3 A	129.4 A	
Power factor	>0.99 (0.8 leading - 0.8 lagging)			
THDi	<3%			
Efficiency				
Max. efficiency	98.7%	98.8%		
EU efficiency	98.3%	98.5%		
Protection				
DC reverse-polarity protection	Yes			
Short circuit protection	Yes			
Output over current protection	Yes			
Surge protection	DC Type II / AC Type II			
Grid monitoring	Yes			
Anti-islanding protection	Yes			
Temperature protection	Yes			
Strings monitoring	Yes			
I/V Curve scanning	Yes			
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾			
Integrated PID recovery	Optional			
Integrated DC switch	Yes			
Integrated AC switch	Optional			
General Data				
Dimensions (W*H*D)	1050*567*314.5 mm (with AC switch)			
Weight	85 kg			
Topology	Transformerless			
Self-consumption (night)	<2 W			
Operating ambient temperature range	-30 ~ +60°C			
Relative humidity	0-100%			
Ingress protection	IP66			
Cooling concept	Intelligent redundant fan-cooling			
Max. operation altitude	4000 m			
Grid connection standard	G98 or G99, VDE-AR-N 4105 / VDE-AR-N 4110 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15 / VFR:2019, CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530			
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4			
Features				
DC connection	MC4 connector			
AC connection	OT terminal (max. 185 mm²)			
Display	LCD			
Communication	RS485, Optional: Wi-Fi, GPRS, PLC			

(1) Activation required.

Solis-(80-110)K-5G-PRO

Solis Three Phase Inverters

Efficient

- 6/8 MPPTs, max. efficiency 98.5%
- > 150% DC/AC ratio
- Compatible with bifacial modules

Smart

- Night SVG function
- Intelligent string monitoring, smart I-V curve scan
- Remote firmware upgrade with simple operation

Safe

- IP66
- AFCI protection, proactively reduces fire risk
- Built-in PID recovery for better module performance (optional)
- Globally recognised branded componentry for longer life

Economic

- Power line communication (PLC) (optional)
- DC side supports "Y" connector
- Supports aluminium wire access to reduce cost

Models:

- Solis-80K-5G-PRO
- Solis-100K-5G-PRO
- Solis-110K-5G-PRO



DATASHEET

Solis-(80-110)K-5G-PRO

Models	80K	100K	110K
Input DC			
Max. input voltage	1100 V		
Rated voltage	600 V		
Start-up voltage	180 V		
MPPT voltage range	160-1000 V		
Max. input current	36A / 32A / 36A / 32A / 36A / 32A	36A / 32A / 36A / 32A / 36A / 32A / 36A / 32A	
Max. short circuit current	6*50 A	8*50 A	
MPPT number/Max. input strings number	6/12	8/16	
Output AC			
Rated output power	80 kW	100 kW	110 kW
Max. apparent output power	88 kVA	110 kVA	121 kVA
Max. output power	88 kW	110 kW	121 kW
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V		
Rated grid frequency	50 Hz / 60 Hz		
Rated grid output current	121.6 A / 115.5 A	152.0 A / 144.3 A	167.1 A / 158.8 A
Max. output current	133.7 A	167.1 A	183.8 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)		
THDi	<3%		
Efficiency			
Max. efficiency	98.5%		
EU efficiency	98.0%		
Protection			
DC reverse-polarity protection	Yes		
Short circuit protection	Yes		
Output over current protection	Yes		
Surge protection	DC Type II / AC Type II		
Grid monitoring	Yes		
Anti-islanding protection	Yes		
Temperature protection	Yes		
Strings monitoring	Yes		
I/V Curve scanning	Yes		
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾		
Integrated PID recovery	Optional		
Integrated DC switch	Yes		
Integrated AC switch	Optional		
General Data			
Dimensions (W*H*D)	1065*585*363.5 mm (with AC switch)	1183*585*363 mm	
Weight	79.5 kg	93 kg	
Topology	Transformerless		
Self-consumption (night)	<2 W		
Operating ambient temperature range	-30 ~ +60°C		
Relative humidity	0-100%		
Ingress protection	IP66		
Cooling concept	Intelligent redundant fan-cooling		
Max. operation altitude	4000 m		
Grid connection standard	G99, IEC61727, EN50549-1/2, VDE4110		
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4		
Features			
DC connection	MC4 connector		
AC connection	OT terminal (max. 240 mm²)		
Display	LCD		
Communication	RS485, Optional: Wi-Fi, GPRS, PLC		

(1) Activation required.

Solis-(100-125)K-5G

Solis Three Phase Inverters

Efficient

- 10 MPPTs, max. efficiency 99.0%
- > 150% DC/AC ratio
- High power tracking density 90MPPT/MW
- Compatible with bifacial modules

Smart

- Night SVG function
- Intelligent string monitoring, smart I-V curve scan
- Remote firmware upgrade with simple operation

Safe

- AFCI protection, proactively reduces fire risk
- Built-in PID recovery for better module performance (optional)
- Type I SPD for AC (optional)
- Overvoltage load reduction and leakage current suppression technology, low failure rate
- Globally recognised branded componentry for longer life

Economic

- Power line communication (PLC) (optional)
- DC side supports "Y" connector
- Supports aluminium wire access to reduce cost

Models:

Solis-100K-5G

Solis-110K-5G

Solis-125K-HV-5G



360° View

DATASHEET

Solis-(100-125)K-5G

Models	100K	110K	125K-HV
Input DC			
Max. input voltage	1100 V		
Rated voltage	600 V		720 V
Start-up voltage	195 V		
MPPT voltage range	180-1000 V		
Max. input current	10*26 A		
Max. short circuit current	10*40 A		
MPPT number/Max. input strings number	10/20		
Output AC			
Rated output power	100 kW	110 kW	125 kW
Max. apparent output power	110 kVA	121 kVA	137.5 kVA
Max. output power	110 kW	121 kW	137.5 kW
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V		3/PE, 480 V
Rated grid frequency	50 Hz / 60 Hz		
Rated grid output current	152.0 A / 144.3 A	167.1 A / 158.8 A	150.4 A
Max. output current	167.1 A	183.8 A	165.4 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)		
THDi	<3%		
Efficiency			
Max. efficiency	98.7%		99.0%
EU efficiency	98.3%		98.5%
Protection			
DC reverse-polarity protection	Yes		
Short circuit protection	Yes		
Output over current protection	Yes		
Surge protection	DC Type II / AC Type II (AC Type I optional)		
Grid monitoring	Yes		
Anti-islanding protection	Yes		
Temperature protection	Yes		
Strings monitoring	Yes		
I/V Curve scanning	Yes		
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾		
Integrated PID recovery	Optional		
Integrated DC switch	Yes		
Integrated AC switch	Optional		
General Data			
Dimensions (W*H*D)	1065*567*344.5 mm		
Weight	91 kg		
Topology	Transformerless		
Self-consumption (night)	<2 W		
Operating ambient temperature range	-30 ~ +60°C		
Relative humidity	0-100%		
Ingress protection	IP66		
Cooling concept	Intelligent redundant fan-cooling		
Max. operation altitude	4000 m		
Grid connection standard	VDE-AR-N 4105, VDE-AR-N 4110, VDE V 0124, VDE V 0126-1-1, UTE C15-712-1, NRS 097-1-2, G98, G99, EN 50549-1/-2, RD 1699, TOR, UNE 206006, UNE 206007-1, CEI 0-21, IEC61727, DEWA		
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4		
Features			
DC connection	MC4 connector		
AC connection	OT terminal (max. 185 mm²)		
Display	LCD		
Communication	RS485, Optional: Wi-Fi, GPRS, PLC		

(1) Activation required.

S5-GC(100-125)K

Solis Three Phase Inverters

Efficient

- 10 MPPTs, max. efficiency 99.0%
- > 150% DC/AC ratio
- High power tracking density 90MPPT/MW
- String current up to 16A, perfectly match large current bifacial modules

Smart

- Night SVG function
- Intelligent string monitoring, smart I-V curve scan
- Remote firmware upgrade with simple operation

Safe

- AFCI protection, proactively reduces fire risk
- Built-in PID recovery for better module performance (optional)
- Type I SPD for AC (optional)
- Overvoltage load reduction and leakage current suppression technology, low failure rate
- Globally recognised branded componentry for longer life

Economic

- Power line communication (PLC) (optional)
- DC side supports "Y" connector
- Supports aluminium wire access to reduce cost

Models:

- S5-GC100K
- S5-GC110K
- S5-GC125K-HV



DATASHEET

S5-GC(100-125)K

Models	100K	110K	125K-HV
Input DC			
Max. input voltage	1100 V		
Rated voltage	600 V		720 V
Start-up voltage	195 V		
MPPT voltage range	180-1000 V		
Max. input current	10*32 A		
Max. short circuit current	10*40 A		
MPPT number/Max. input strings number	10/20		
Output AC			
Rated output power	100 kW	110 kW	125 kW
Max. apparent output power	110 kVA	121 kVA	137.5 kVA
Max. output power	110 kW	121 kW	137.5 kW
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V		3/PE, 480 V
Rated grid frequency	50 Hz / 60 Hz		
Rated grid output current	152.0 A / 144.3 A	167.1 A / 158.8 A	150.4 A
Max. output current	167.1 A	183.8 A	165.4 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)		
THDi	<3%		
Efficiency			
Max. efficiency	98.7%		99.0%
EU efficiency	98.3%		98.6%
Protection			
DC reverse-polarity protection	Yes		
Short circuit protection	Yes		
Output over current protection	Yes		
Surge protection	DC Type II / AC Type II (AC Type I optional)		
Grid monitoring	Yes		
Anti-islanding protection	Yes		
Temperature protection	Yes		
Strings monitoring	Yes		
I/V Curve scanning	Yes		
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾		
Integrated PID recovery	Optional		
Integrated DC switch	Yes		
Integrated AC switch	Optional		
General Data			
Dimensions (W*H*D)	1065*567*344.5 mm		
Weight	91 kg		
Topology	Transformerless		
Self-consumption (night)	<2 W		
Operating ambient temperature range	-30 ~ +60°C		
Relative humidity	0-100%		
Ingress protection	IP66		
Cooling concept	Intelligent redundant fan-cooling		
Max. operation altitude	4000 m		
Grid connection standard	VDE-AR-N 4105, VDE-AR-N 4110, VDE V 0124, VDE V 0126-1-1, UTE C15-712-1, NRS 097-1-2, G98, G99, EN 50549-1/-2, RD 1699, TOR, UNE 206006, UNE 206007-1, CEI 0-21, IEC61727, DEWA		
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4		
Features			
DC connection	MC4 connector		
AC connection	OT terminal (max. 185 mm²)		
Display	LCD		
Communication	RS485, Optional: Wi-Fi, GPRS, PLC		

(1) Activation required.

C&I Power Plant Case Study



Ninghai Power Plant

- China
- 38MW
- Solis-(215-255)K-EHV-5G

Ninghai Power Plant transitions away from traditional thermal power to integrate solar power generation overcoming technical challenges along the way.

Ninghai Power is dedicated to the innovation of greener power through science and technology and has become a leader in Agrisolar development. As a pioneer in its industry the company has implemented a new energy park project which includes fishery-solar system, Agrisolar and floating solar systems, solar carport and



solar corridor as well as a more traditional solar rooftop. Over 8 different installation types have enabled more green energy to be installed in more areas - true "out of the box" thinking.

The solar plant now generates more than 300 billion kilowatts of green energy.



- India
- 1.12MW
- S5-GC(80-110)K



- Greece
- 100kW
- S5-GC(100-110)K

- UK
- 2MW
- Solis-(100-110)K-5G



- Netherlands
- 168.35kW
- Solis-(80-110)K-5G



- Philippines
- 270kW
- Solis-(25-30)K-LV

Utility Scale Solar PV Solutions

Solis has optimized and innovated around the entire process of utility solar PV solutions. Deeply integrated system design, digital management, and IoT technology effectively optimize the initial investment and future O&M costs of the power station increasing the power generation of the system and the rate of return on investment. Through the concept of "Efficient, safe, reliable, smart O&M, and system-friendly" we maximise the value for customers.

The 1500V high-power system solution can effectively reduce the number of equipment and cable consumption, reduce the initial investment cost, and facilitate installation and maintenance.

Solis utility PV solution has the characteristics of low LCOE. From the perspective of inverter performance improvement, it includes optimizing software algorithms and optimizing hardware port compatibility to improve system efficiency and reduce system investment costs.

Solis utility inverter has a large single power, up to 255kW. The high-efficiency and high-power-density inverter can reduce the workload of installation and maintenance, reduce costs and improve efficiency. Solis utility PV solution is supplemented by a series of advanced digital services and intelligent monitoring equipment based on SolisCloud, simplifying the application difficulty of the intelligent system, and providing a more complete, high-quality and efficient cloud smart O&M solution.

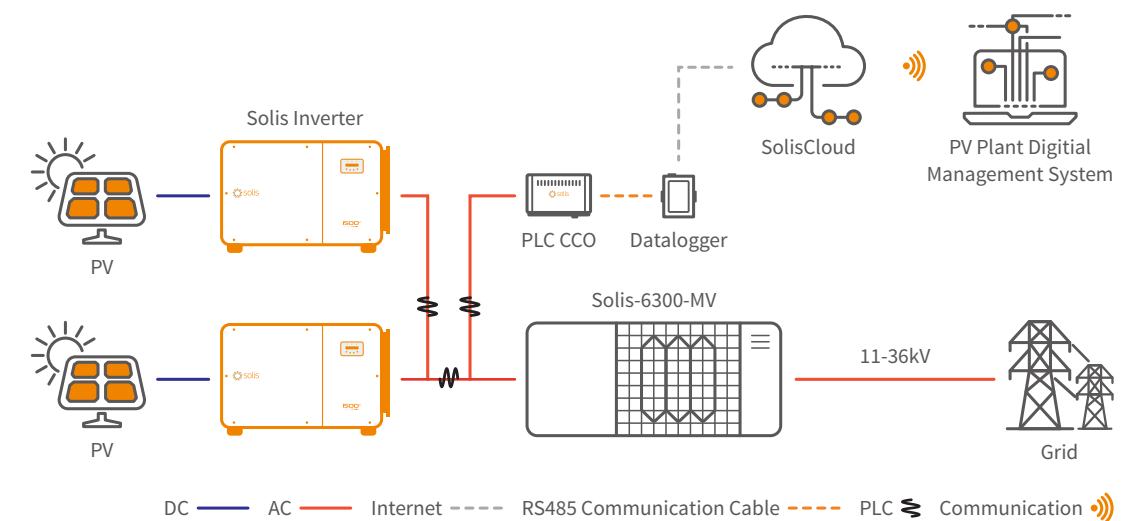
Models:

Solis-(215-255)K-EHV-5G

Output:

125 kW - 255 kW

Utility Scale Solar PV Solution



Solis-(215-255)K-EHV-5G

Solis Three Phase Inverters

Efficient

- 9/12/14 MPPTs, max. efficiency 99.0%
- > 150% DC/AC ratio
- High power tracking density 56MPPT/MW
- Compatible with 500W+ bifacial modules

Smart

- Night SVG function
- Intelligent string monitoring, smart I-V curve scan
- Remote firmware upgrade with simple operation

Safe

- IP66
- Built-in PID recovery for better module performance
- Fuse free design, safe and maintenance free
- Globally recognised branded componentry for longer life

Economic

- Power line communication (PLC) (optional)
- DC side supports "Y" connector
- Supports aluminium wire access to reduce cost

Models:

- Solis-215K-EHV-5G-PLUS
- Solis-250K-EHV-5G
- Solis-250K-EHV-5G-PLUS
- Solis-255K-EHV-5G
- Solis-255K-EHV-5G-PLUS



DATASHEET

Solis-(215-255)K-EHV-5G

Models	215K-PLUS	250K	250K-PLUS	255K	255K-PLUS
Input DC					
Max. input voltage	1500 V				
Rated voltage	1080 V				
Start-up voltage	500 V				
MPPT voltage range	480-1500 V				
Max. input current	9*30 A	14*26 A	12*30 A	14*26 A	12*30 A
Max. short circuit current	9*50 A	14*40 A	12*50 A	14*40 A	12*50 A
MPPT number/Max. input strings number	9/18	14/28	12/24	14/28	12/24
Output AC					
Output power	215 kVA@30°C / 205 kVA@40°C / 195 kVA@50°C	250 kVA@30°C / 235 kVA@40°C / 220 kVA@50°C		255 kVA@30°C / 235 kVA@40°C / 220 kVA@50°C	
Rated grid voltage	3/PE, 800 V				
Grid voltage range	640-920 V				
Rated grid frequency	50 Hz / 60 Hz				
Max. output current	155.2 A	180.4 A		184.0 A	
Power factor	>0.99 (0.8 leading - 0.8 lagging)				
THDi	<3%				
Efficiency					
Max. efficiency	99.0%				
EU efficiency	98.8%	98.7%	98.8%	98.7%	98.8%
Protection					
DC reverse-polarity protection	Yes				
Short circuit protection	Yes				
Output over current protection	Yes				
Surge protection	DC Type II / AC Type II				
Grid monitoring	Yes				
Anti-islanding protection	Yes				
Temperature protection	Yes				
Strings monitoring	Yes				
I/V Curve scanning	Yes				
Night time SVG function	Yes				
Integrated PID recovery	Yes				
Integrated DC switch	Yes				
General Data					
Dimensions (W*H*D)	1125*770*384 mm				
Weight	109 kg	113 kg			
Topology	Transformerless				
Self-consumption (night)	<2 W				
Operating ambient temperature range	-30 ~ +60°C				
Relative humidity	0-100%				
Ingress protection	IP66				
Cooling concept	Intelligent redundant fan-cooling				
Max. operation altitude	4000 m				
Grid connection standard	EN50549, G99, AS4777.2, VDE0126, IEC61727, VDE4110, CEA 2019				
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4				
Features					
DC connection	MC4 connector				
AC connection	OT terminal (max. 300 mm²)				
Display	LCD				
Communication	RS485, Optional: PLC				

Solis-6300-MV

Solis PV Station

For 1500 V string inverter Solis 255K

Integrated delivery

- Mainstream 6.3MW subarray,widely used global
- 20 foot standard container delivery, easy to transport

Convenient installation

- A complete solution, from inverter to main step-up transformer
- When the container is lifted to the foundation, only LV and MV cables need to be connected

Reliable products

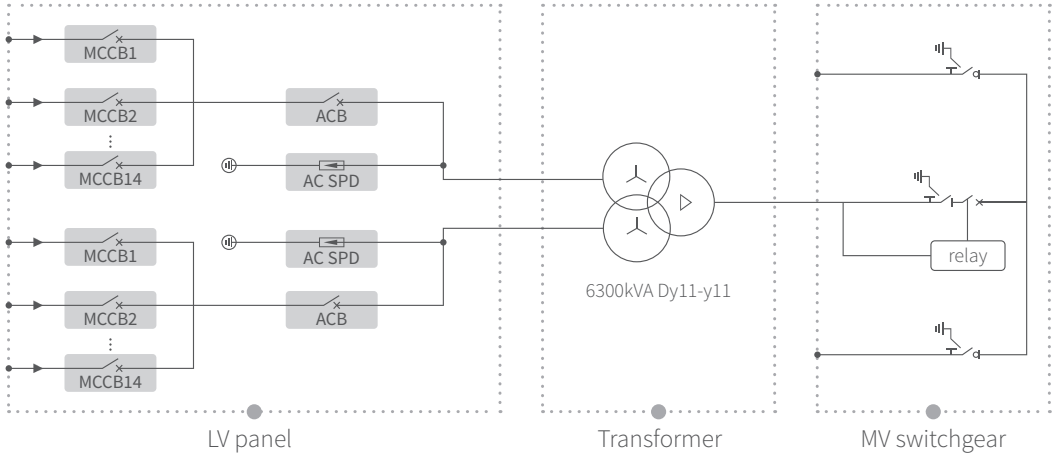
- LV panel, transformer and RMU be placed independently
- Adopt international first-line brand equipment with reliable quality

Easy O&M

- Full frontal maintenance design
- Modular design of MV equipment, easy to replace



Circuit diagram



DATASHEET

Solis-6300-MV

Models	6300
LV panel	
MCCB specification	250 A / 800 Vac / 3P, 14*2 pcs
ACB specification	3200 A / 800 Vac / 3P, 1*2 pcs
Connection form with transformer	Copper busbar
Transformer	
Transformer type	Oil immersed
Rated output power	6300 kVA @ 40°C
Max. output power	6930 kVA @ 40°C 3h
LV/MV voltage	0.8 kV / 10-35 kV
Max. input current	2577 A *2
Tapping on HV	±2*2.5%
Vector group	Dy11y11
Frequency	50 Hz / 60 Hz
Cooling type	ONAN
Impedance	7%
Oil type	Mineral oil (Optional: plant oil)
Winding material	Al/Al (Optional: Cu/Cu)
Insulation class	A
Connection form with MV switchgear	Cable
MV Switchgear	
Type of insulate	SF6
Rated voltage	12-36 kV
Rated current	630 A
Internal arcing fault	20 kA / 1 s
Qty of feeder	3 feeders
Protection	
LV surge protection	AC type I+II
AC input protection	Circuit breaker
Transformer protection	Oil-temperature, oil-level, oil-pressure
Fire protection	Smoke detection, emergency lighting
General Data	
Dimensions (W*H*D)	6058*2896*2438 mm
Approximate weight	24 T
Operating temperature range	-25 ~ +60°C
Max. operation altitude	1000 m (standard)
Auxiliary power supply	5 kVA / 230 V (Optional: max. 40 kVA)
UPS	1 kVA 30 min (Optional: max. 2 kVA 2h)
Degree of protection	IP54
Allowable relative humidity range	0-95%
Communication	RS485, Ethernet, Optical fiber
Compliance	IEC 60076, IEC 62271, IEC61439

Utility-scale Plant Case Study



India
2MW Solis-(100-110)K



Poland
10MW Solis-125K-EHV-5G



China
300MW
Solis-(215-255)K-EHV-5G



China
1GW Solis-(215-255)K-EHV-5G



Mexico
20MW Solis-20K-HV

Tidal-Flat 300MW Utility Scale Solar PV Plant

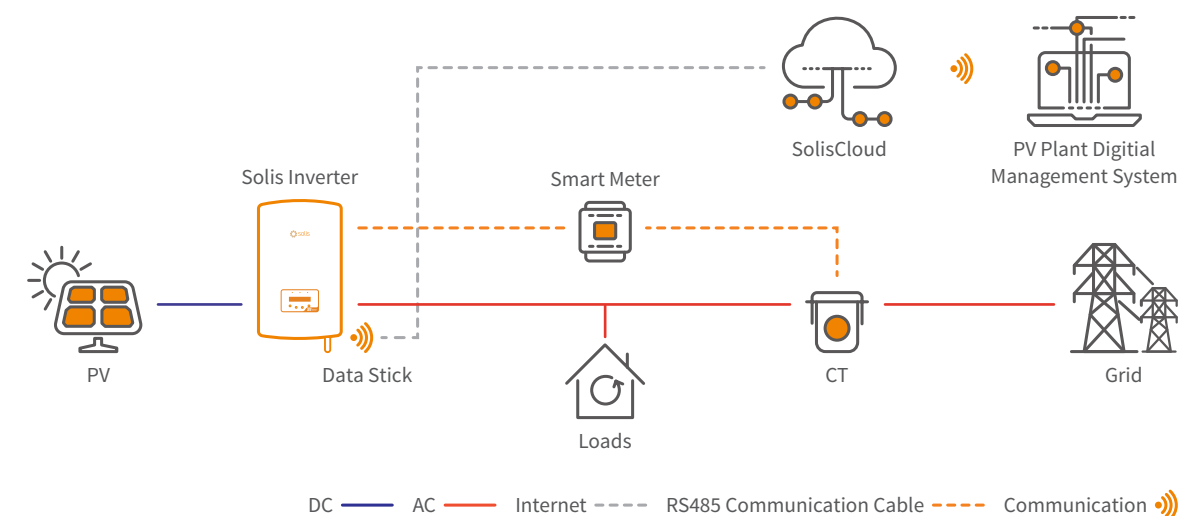
After the project is put into operation, the generating capacity is estimated to be 400,000,000 kWh/ year and delivers a reduction of 350, 000 tons of CO₂, 12,000 tons of SO₂, and 110,000 tons of Carbon dust. Solis commercial scale string inverters boast an abundance of technological features which can adapt to a variety of environments. We look forward to seeing more applications utilizing Solis inverters. We are committed to our mission - Developing Technology to Power the World with Clean Energy.

Export Power Management Solutions

In some countries, local regulations limit the amount of PV power that can be exported to the grid or allow no export. Solis offers two export limitation solutions for single and multiple inverters system.

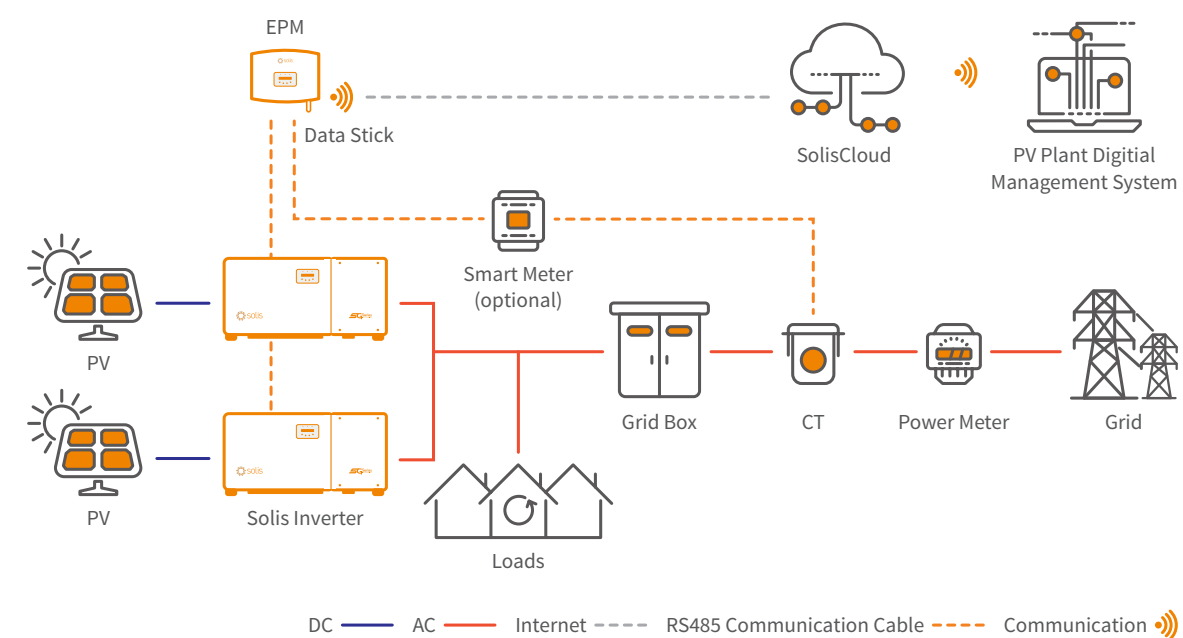
Export Power Management Solutions - Single-inverter System

In a single-inverter system, the export limitation is integrated into the inverter firmware. Use a meter or a CT to measure the output of the system, then to adjust PV power production.



Export Power Management Solution - Multi-inverter System

In a multi-inverter system, the export limitation is integrated into the EPM (Export Power Manager) firmware. The EPM will monitor and control the backflow power from the inverter to the grid thus providing export power control of inverters.



Solis-EPM-5G

Accessories - Solis Export Power Manager

Smart & strong

- Simultaneous control of 80 X Solis inverters
- Realizing reactive compensation of the system

Saving & high precision

- Simultaneously monitor the operating data of the 80 X Solis inverter, saving the cost of the monitoring system
- The control accuracy is up to 1%, which improves the system's spontaneous use rate

Friendly & compatible

- Supports simultaneous access of Solis inverters with different powers
- Monitor power generation and load consumption at all times

Models:

Solis-EPM1-5G

Solis-EPM3-5G

Solis-EPM3-5G-PRO

Solis-EPM3-5G-PLUS

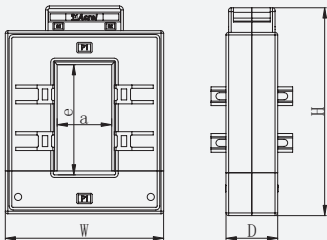


360° View



DATASHEET

Solis-EPM-5G

Models	Solis-EPM1-5G	Solis-EPM3-5G	Solis-EPM3-5G-PRO	Solis-EPM3-5G-PLUS			
Input AC							
Rated voltage	1/N/PE, 230 V	3/N/PE, 230 V / 400 V		3/N/PE, 220 V / 380 V			
Input voltage range	110 ~ 300 V (L-N)	175 ~ 519 V (L-L)		L - L: 175~ 456 V			
Input frequency range	45~65 Hz						
Communication							
Inverter communication	Modbus						
Communication with inverter	RS485 (Wired)						
Max. communication inverter numbers	10	60 ⁽¹⁾		80 ⁽¹⁾			
Max. communication distance	1000 m						
Monitoring	WiFi/4G/LAN Stick (Optional)			DLB-W (Built-in)			
General Data							
Operating ambient temperature range	-25 ~ +60°C						
Relative humidity	5%~95%						
Max. operation altitude	2000 m						
Ingress protection	IP65						
Pollution degree	PD2 (Inside), PD3 (Outside)						
Overvoltage category	III						
Self-consumption	<6 W			<15 W			
Dimensions (W*H*D)	364*276*114 mm						
Weight	2.1 kg (without CT, Meter)						
AC connection	Quick connection terminal						
Display	LCD						
Smart meter	No		Yes	Yes (Built-in)			
CT connection	Plug terminal						
CT specification	Optional (Secondary current is 5A) ⁽²⁾						
Power control accuracy	1%						
Features							
Failsafe fuction	Yes						
Remote upgrated	Yes						
Control time	5 s						
CT specification							
	Specification	Dimensions (mm)			Hole size (mm)		Ratio
		W	H	D	a	e	
	CT-30×20-100 A	90	114	40	22	32	100:5 A
	CT-60×40-300 A	114	140	36	42	62	300:5 A
	CT-80×40-600 A	122	162	40	42	82	600:5 A
	CT-80×40-1000 A	122	162	40	42	82	1000:5 A
	CT-160×80-2000 A	184	254	52	82	162	2000:5 A
	CT-160×80-3000 A	184	254	52	82	162	3000:5 A

(1) The installed capacity of the inverter cannot exceed 5MW.

(2) Due to different on-site installation conditions, Solis currently has optional specifications as shown in the above table. It is suggested that the client can choose the appropriate CT specifications according to the actual installation requirements.

SolisCloud: Intelligent Solar Energy System Monitoring

The SolisCloud intelligent monitoring system includes hardware and software products and is a comprehensive energy management solution. Hardware products, including data stick, data box, EPM and PLC, etc; transmit to SolisCloud online energy management platform. Real-time monitoring, visualized management and remote O & M of residential, C&I and utility scale solar PV plants.



S2-WL-ST •



S2-WL-ST (4 Pin)

S2-WL-ST (USB)

S3-GPRS/WiFi-ST •



S3-GPRS-ST

S3-WiFi-ST

S4-WiFi-ST •



S4-WiFi-ST

S1-W4G-ST •



S1-W4G-ST (4 Pin)

S1-W4G-ST (USB)

S3-Logger •



S3-Logger

Solis-Link: RF •



RF-Stick

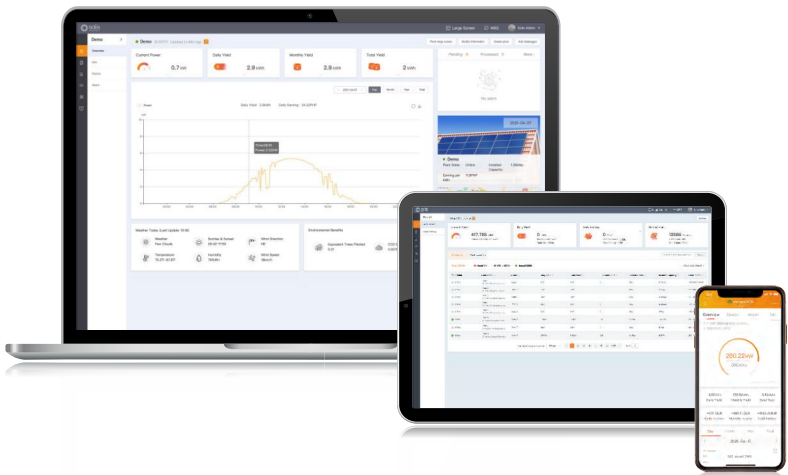
RF Gateway

SolisCloud

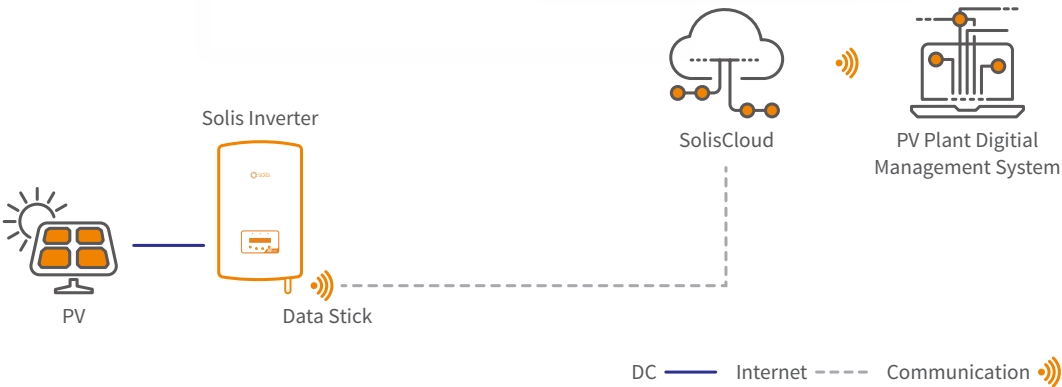
New generation Solis PV monitoring platform

SolisCloud is the new generation of intelligent PV system monitoring. This new monitoring platform will empower you like never before. You will have full control of your system whenever and wherever you are. You will benefit from upgraded accurate fault alarm messaging that is adjustable to notify you within hours that fit meet your needs.

For simple O&M the new platform features a full size display of all your installations with real-time data. You will have an intelligent alarm system that gives recommendations to quickly repair your field faults. In depth analysis tools allow you to understand the overall health of your system. IV curve scanning can be done easily and quickly on your whole system. A live power flow display gives visibility of both standard solar systems as well as storage systems. Most importantly you will have complete control of your systems and be able to monitor and adapt anything when and how you want.



Intelligent Monitoring Solution - SolisCloud



Advanced Cloud Platform

- Connecting with multiple types of devices seamlessly: Inverters, export power managers, weather stations, etc.

Efficient O & M

- Smart I-V curve scan, system health report, string-level fault finding

Multiple Plant Management

- Manage multiple types of systems across residential, commercial and utility scale plants. Enables multiple team management across different sectors

Full Screen Display Mode

- Clear and concise display of system performance and benefits including carbon emissions saved and equivalent trees planted as well as showing system yield & earnings

Download the App



Accessories available:

- S2-WL-ST
- S3-GPRS/WiFi-ST
- S4-WiFi-ST
- S1-W4G-ST
- S3-Logger
- Solis-Link: RF

Search for "Solis"



FOLLOW US

The Full Series of Operation Videos Will be available on Youtube

S2-WL-ST

Accessories - Solis Data Logging Stick

Use RS485 communication method to connect the inverters, up to 10 inverters can be connected at the same time. Data communication with the monitoring system through wireless WiFi network or LAN, which can realize remote control and monitoring. The network transmits intuitive data, which is convenient for customers to monitor anytime and anywhere.

Features:

- Support WiFi and LAN communication
 - Status indicator, easy to display working status
 - RESET button, one key to send data, convenient debugging
- Plug and play, quick installation
 - Fault alarm, real-time monitoring
 - Support Bluetooth nearby connection and debugging
 - One-key assignment of inverter address, efficient and labor-saving

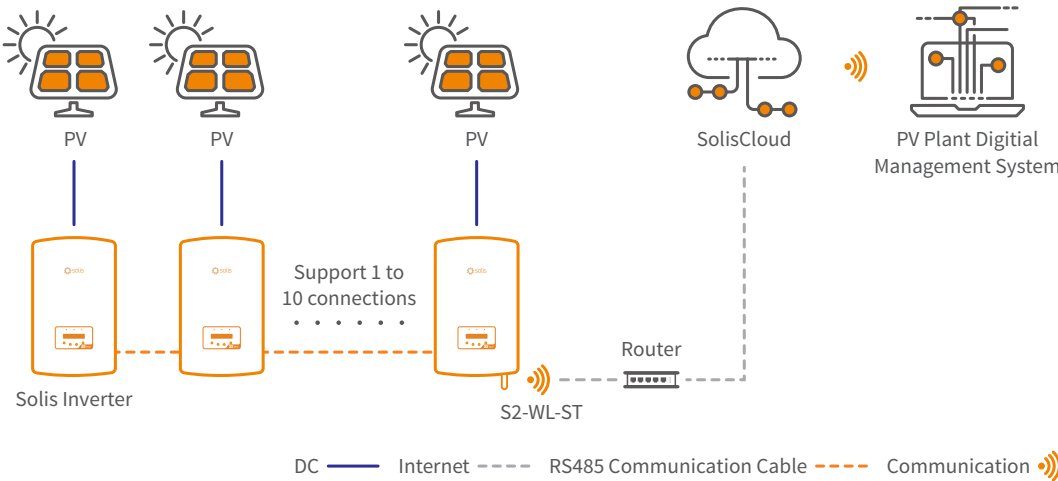


S2-WL-ST (4 Pin)



S2-WL-ST (USB)

Intelligent Monitoring Solution - S2-WL-ST



DATASHEET

S2-WL-ST

Models	S2-WL-ST (4 Pin)		S2-WL-ST (USB)
Communication			
Supported device type	Solis inverter		
Number of connected inverters ⁽¹⁾	≤10		
Data collection intervals	5 minutes		
Status indicator	LED × 3		
Communication interface	4 Pin	USB	
Wireless communication	802.11b/g/n (2.4G—2.483G)		
Configuration method	APP/WEB		
Electrical			
Operating voltage	DC 5 V (+/-5%)		
Operating power consumption	≤5 W		
Environment			
Operating temperature	-30 ~ +65°C		
Operating humidity	5%-95%, Relative humidity, no condensa		
Storage temperature	-40 ~ +70°C		
Storage humidity	< 40%		
Max. operation altitude	4000 m		
Protection degree	IP65		
Mechanical			
Dimensions (L*W*H)	125*34*49 mm	112*34*49 mm	
Installation method	Insert+Screw	Insert+Lock	
Weight	103 g	89 g	
Others			
Certification	CE, FCC		

(1) Connect the inverters by RS485 cables.

S3-GPRS/WiFi-ST

Accessories - Solis Data Logging Stick

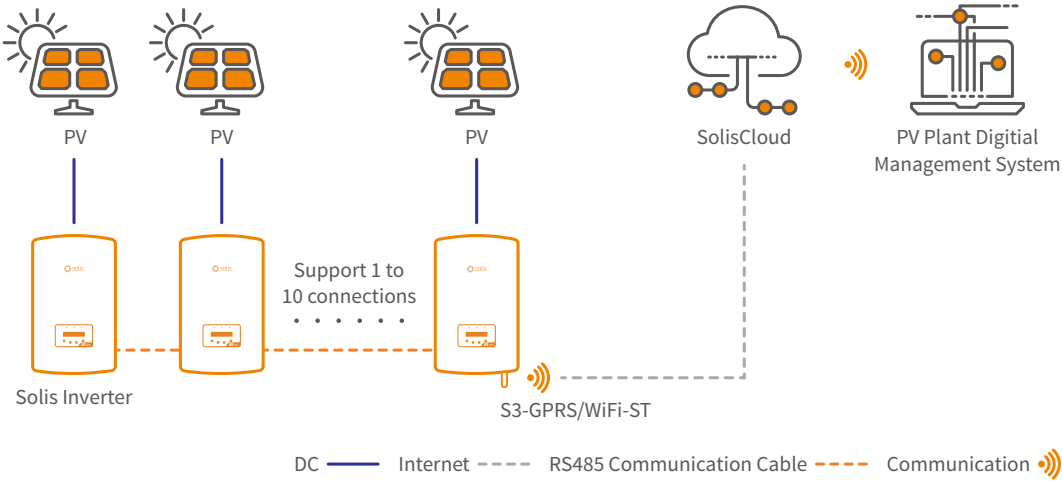
Use RS485 communication method to connect the inverter, and data connection through wireless WiFi network or GPRS, which can realize remote control and monitoring. The network transmits intuitive data, which is convenient for customers to monitor at any time and place.

Features:

- Fault alarm, real-time monitoring
 - Status indicator, easy to display working status
- Plug and play, convenient and fast
 - RESET button, one key to send data, convenient debugging



Intelligent Monitoring Solution - S3-GPRS/WiFi-ST



DATASHEET

S3-GPRS/WiFi-ST

Models	S3-GPRS-ST		S3-WiFi-ST	
Communication				
Supported device type	Solis inverter			
Number of connected inverters ⁽¹⁾	≤10			
Data collection intervals	5 minutes			
Status indicator	LED × 3			
Communication interface	4 Pin			
Wireless communication	850/900/1800/1900 MHz		802.11b/g/n (2.4G—2.483G)	
Configuration method	APP/WEB			
Electrical				
Operating voltage	DC 5V(+/-5%)			
Operating power consumption	≤5 W			
Environment				
Operating temperature	-30 ~ +65°C			
Operating humidity	5%-95%, relative humidity, no condensa			
Storage temperature	-40 ~ +70°C			
Storage humidity	< 40%			
Max. operation altitude	4000 m			
Protection degree	IP65			
Mechanical				
Dimensions (L*W*H)	133*45*41 mm		128*50*34 mm	
Installation method	Insert+Screw			
Weight	84 g		80 g	
Others				
Certification	CE		CE, FCC	

(1) Connect the inverters by RS485 cables.

S4-WiFi-ST

Accessories - Solis Data Logging Stick

Use RS485 communication method to connect the inverters, up to 10 inverters can be connected at the same time. Data communication with the monitoring system through wireless WiFi network, which can realize remote control and monitoring. The network transmits intuitive data, which is convenient for customers to monitor anytime and anywhere.

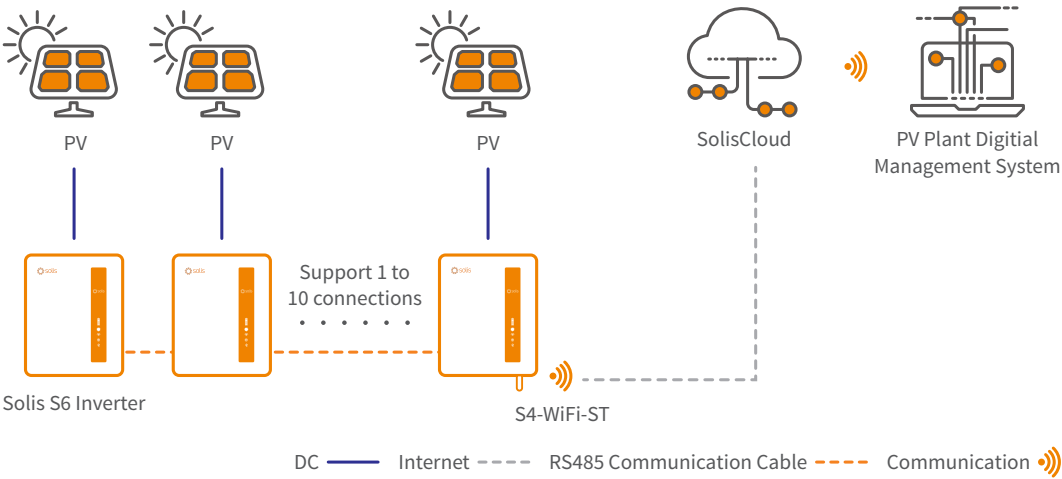
Features:

- Fault alarm, real-time monitoring
 - Status indicator, easy to display working status
- Plug and play, convenient and fast
 - RESET button, one key to send data, convenient debugging



S4-WiFi-ST

Intelligent Monitoring Solution - S4-WiFi-ST



DATASHEET

S4-WiFi-ST

Models	S4-WiFi-ST
Communication	
Supported device type	Solis inverter
Number of connected inverters ⁽¹⁾	≤10
Data collection intervals	5 minutes
Status indicator	LED × 3
Communication interface	USB
Wireless communication	802.11b/g/n (2.4G—2.483G)
Configuration method	APP/WEB
Electrical	
Operating voltage	DC 5V(+/-5%)
Operating power consumption	≤5 W
Environment	
Operating temperature	-30 ~ +65°C
Operating humidity	5%-95%, relative humidity, no condensa
Storage temperature	-40 ~ +70°C
Storage humidity	< 40%
Max. operation altitude	4000 m
Protection degree	IP65
Mechanical	
Dimensions (L*W*H)	128*50*34 mm
Installation method	Insert+Screw
Weight	84 g
Others	
Certification	CE, FCC

(1) Connect the inverters by RS485 cables.

S1-W4G-ST

Accessories - Solis Data Logging Stick

Use RS485 communication method to connect the inverters, up to 10 inverters can be connected at the same time. Data communication with the monitoring system through wireless WiFi network or 4G, which can realize remote control and monitoring. The network transmits intuitive data, which is convenient for customers to monitor anytime and anywhere.

Features:

- Support WiFi and 4G communication
 - Status indicator, easy to display working status
 - RESET button, one key to send data, convenient debugging
- Fault alarm, real-time monitoring
 - Support Bluetooth nearby connection and debugging
 - One-key assignment of inverter address, efficient and labor-saving

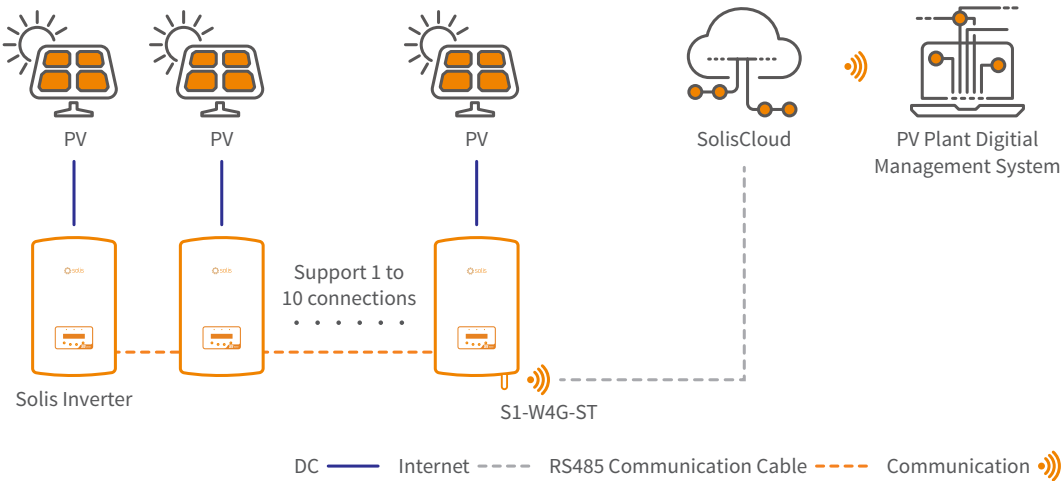


S1-W4G-ST (4 Pin)



S1-W4G-ST (USB)

Intelligent Monitoring Solution - S1-W4G-ST



DATASHEET

S1-W4G-ST

Models	S1-W4G-ST (4 Pin)	S1-W4G-ST (USB)
Communication		
Supported device type	Solis inverter	
Number of connected inverters ⁽¹⁾	≤10	
Data collection intervals	5 minutes	
Status indicator	LED × 3	
Communication interface	4 Pin	USB
Wireless communication	802.11b/g/n (2.4G—2.483G) GSM/GPRS: 850/900/1800/1900 MHz	
Configuration method	APP/WEB	
Electrical		
Operating voltage	DC 5 V (+/-5%)	
Operating power consumption	≤5 W	
Environment		
Operating temperature	-30 ~ +65°C	
Operating humidity	5%-95%, Relative humidity, no condensa	
Storage temperature	-40 ~ +70°C	
Storage humidity	< 40%	
Max. operation altitude	4000 m	
Protection degree	IP65	
Mechanical		
Dimensions (L*W*H)	128*50*34 mm	115*50*34 mm
Installation method	Insert+Screw	Insert+Lock
Weight	79 g	65 g
Others		
Certification	CE, FCC	

(1) Connect the inverters by RS485 cables.

S3-Logger

Accessories - Solis C&I Data Logging Device

S3-Logger is a data acquisition and protocol conversion device applied to PV equipment in PV power plants, which can support access of meters, weather stations and other equipment.

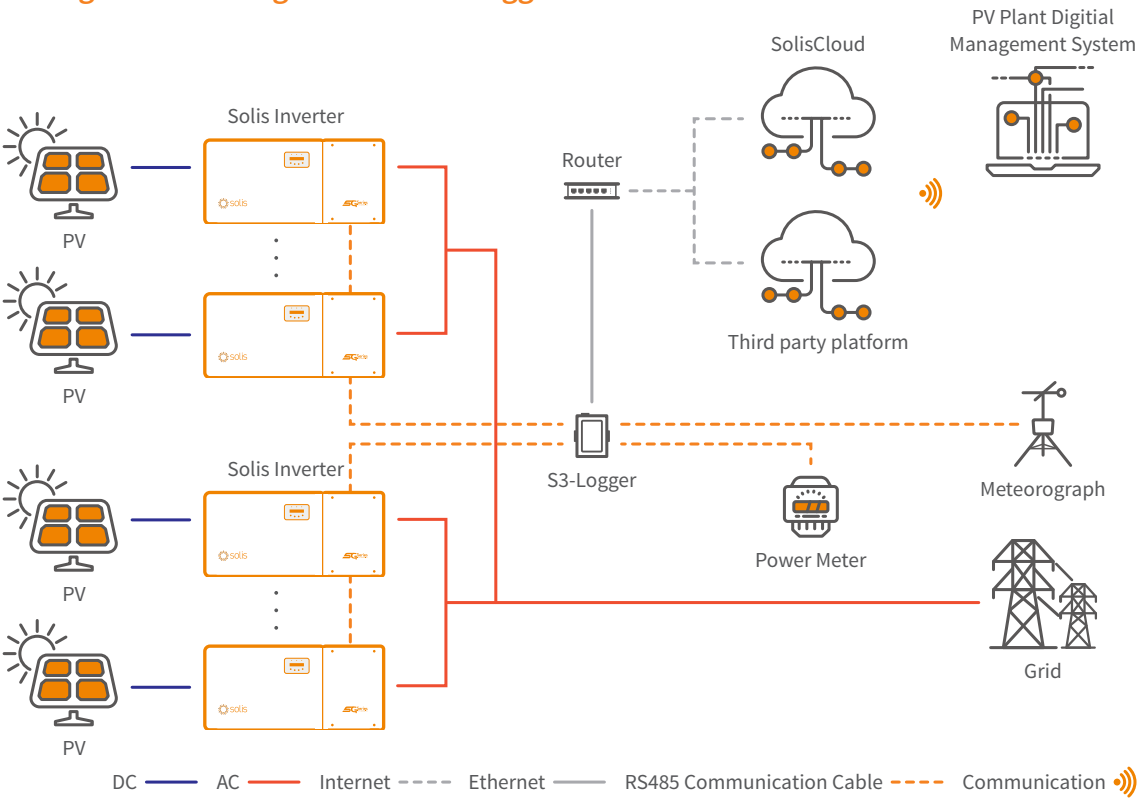
Features:

- Support data connection to local monitoring system
- Intelligent IV curve scan
- Support a variety of communication protocols
- One-key address allocation and EPM function
- Support electricity meters, weather stations and other equipment access
- Inverter remote upgrade



S3-Logger

Intelligent Monitoring Solution - S3-Logger



DATASHEET

S3-Logger

Models	S3-Logger
Communication	
Supported device type	Solis inverter
Number of connected inverters ⁽¹⁾	Each RS485 PORT≤15
Data collection intervals	5 minutes
Status indicator	LED × 2, Power, Run
RS485	COM × 4, 1200~19200 bps, communication distance ≤1000 m
Ethernet communication	LAN × 1, 10/100Mbps adaptive, communication distance ≤100 m
Communication Protocol	
RS485	Modbus-RTU, IEC60870-5-103, DLT645
Ethernet	Modbus-TCP, IEC60870-5-104
Electrical	
AC power supply	100~240 V, 50 Hz / 60 Hz
DC power supply	9~36 V
Operating power consumption	5 W@12VDC
Environment	
Operating temperature	-40 ~ +80°C
Operating humidity	≤85%, Relative humidity, no condensa
Storage temperature	-40 ~ +80°C
Max. operation altitude	4000 m
Mechanical	
Dimensions (L*W*H)	89*121*27 mm
Protection degree	IP20
Installation method	Rail Mounting, Desktop installation
Others	
Certification	CE, RoHS

(1) Connect the inverters by RS485 cables.

Solis-Link: RF

Accessories - Solis Data Logging Device

Solis box type (gateway) + stick type (terminal) monitoring data collector, the terminal uses RS485 communication to connect to the inverter, the gateway uses wired Ethernet to connect to the home router, and the gateway and terminal are connected through RF data to realize automatic networking. The equipment is connected to the gateway automatically, free of wiring and wireless network configuration; it aims to realize a stable and intelligent operation and maintenance management plan for users.

Features:

- Plug and play, easy to operate
- No Wi-Fi configuration required, RF intelligent connection
- Stable network connection, real-time data transmission
- Remote monitoring, allowing real-time monitoring of mobile APP and Web side

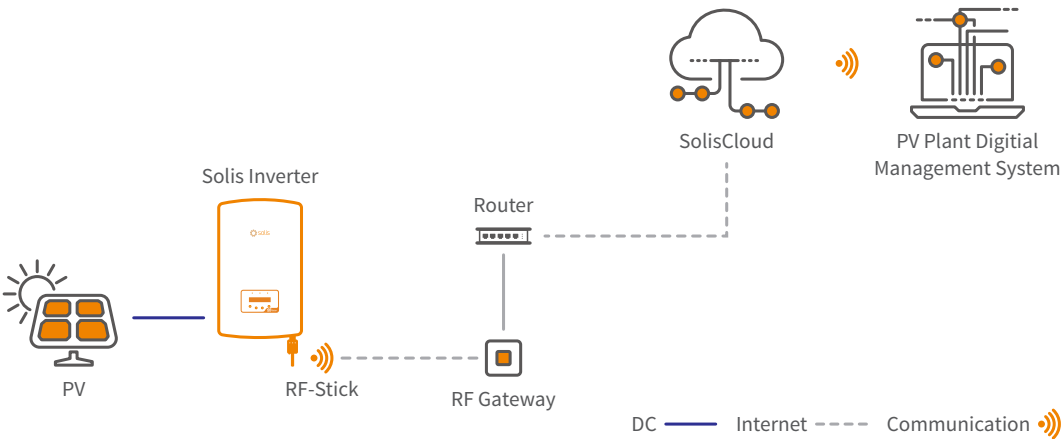


RF-Stick



RF Gateway

Intelligent Monitoring Solution - Link: RF



DATASHEET

Solis-Link: RF

Models	RF-Stick	RF-Gateway
Wireless parameters		
Demodulation	FSK	
Data rate	9.6 kbps	
Transmitting power	+20 dBm	
Transmitting frequency offset	20 kHz	
Transmission channel bandwidth	<8 kHz	
Receiving channel bandwidth	200 kHz	
Hardware parameters		
Data interface	RS 485	Adaptive 10 / 100 Mbps
Operating voltage	DC 5 V ~ DC 12 V	DC 5.0 V (+/-5%)
Max. working voltage	15 V	12 V
Operating power consumption	1.5 W	
Indicator light	System running Status--RUN Light Inverter Connection Status--COM Light RF Connection Status--RF Light	System running Status--RUN Server Connection Status--SER RF Connection Status--RF
Operating humidity	10%-90%, relative humidity, no condensa	
Storage temperature	-45 ~ +90°C	
Storage humidity	< 40%	
Software parameters		
Number of connected inverters	1	/
Serial communication rate	9600 bps (adjustable:1200-57600 bps)	/
Data collection intervals	5 minutes	/
Link requirement	/	CAT5 shielded network cable length <50 m
Mechanical		
Dimensions (L*W*H)	47*41*160 mm	90*23*90 mm
Weight	130 g	80 g
Protection degree	IP 65	IP 21
Others		
Certification	CE	

Contact Us

HQ

+86 574 6580 2188
sales@ginlong.com service@ginlong.com
No. 188 Jinkai Road, Binhai Industrial Park, Xiangshan, Ningbo, Zhejiang, 315712, P.R.China

UK

+44 113 328 0870
europesales@solisinverters.com euservice@solisinverters.com
1 Church Street Bootle Liverpool, L20 1AF, UK

Mexico

+86 574 6580 2188 (sales) +52 81 3434 2092 (service, WhatsApp only)
sales@ginlong.com service.latam@solisinverters.com
Monterrey, Mexico

South Africa

+27 010 222 0181
sales@ginlong.com saservice@solisinverters.com
1487 Seilskip Road, Laser Park, Honeydew, Roodepoort, Gauteng, South Africa

Poland

+44 113 328 0870 (sales) +48 221 031 937 (service)
europesales@solisinverters.com plservice@solisinverters.com

Spain (EU Service Center)

+34 914 430 810 (sales) +34 919 495 286 (service)
europesales@solisinverters.com spservice@solisinverters.com
Calle de Serrano, 240 - 1ª planta 28016 Madrid, Spain

Netherlands

+31 85 048 1300
benelux@solisinverters.com nlservice@solisinverters.com
Nokweg 3-B, 2451 AL Leimuiden, Nederland

Australia

+61 3 8555 9516
sales@solisinverters.com.au service@solisinverters.com.au
No. 5 / 109 Tulip Street, Cheltenham, Vic. 3192 Australia

India

+91 224 9744 251 (sales) +91 224 9744 021 (service)
indiasales@ginlong.com inservice@solisinverters.com
104, wing -A, 1st floor, Techno1 City Premises Plot no. X-4/1 Mahape Navi Mumbai- 400710, India

USA/ Canada

+1 866 438 8408
ussales@solisinverters.com usservice@solisinverters.com

Vietnam

+84 98 316 8126 (sales) +84 89 917 6618 (service)
sales@ginlong.com service@ginlong.com
38/21 Đ. Lỗ Ô, Xã Bình Thắng, Dĩ An, Bình Dương, Việt Nam

Brazil

+55 19 996133803 (sales) +55 19 999618000 (service, WhatsApp)
sales@ginlong.com service@ginlong.com
Sala 618, R. Paulo César Fidélis, 39-Lot. Res. Vila Bella, Campinas-SP, Brasil, 13087-727

Myanmar

+95 94 302 3335
sales@ginlong.com service@ginlong.com
No (10) Sagwar Pin Street, Kyimyindaing, Yangon City

Sweden

+46 725 344 987 (sales) +46 850 282 408 (service)
europesales@solisinverters.com seservice@solisinverters.com
Åkersberga, Sweden

Romania

+40 373 808 894
europesales@solisinverters.com euservice@solisinverters.com
Brasov, Romania

Malaysia

+60 016 232 3512
sales@ginlong.com service@ginlong.com
Jalan Kelang Lama, 58200 Kuala Lumpur, Malaysia

Pakistan

+86 574 6580 2188 (sales) +92 042 3232 1222 (service)
sales@ginlong.com service@ginlong.com
Lahore, Punjab, Pakistan

Singapore

+86 574 6580 2188 (sales) +60 016 232 3512 (service)
sales@ginlong.com service@ginlong.com

Korea

+82 32 822 2188
sales@ginlong.com service@ginlong.com
#A-615, Smart Valley, 30 Songdomirae-ro, yeonsu-gu, Incheon, Korea

Philippines

+63 967 008 1263
sales@ginlong.com service@ginlong.com
12-2C, Cambridge Village Condominium, BLK 19 Kabisig Road, San Andre's Floodway, Cainta Rizal, 1900

Germany

+49 322 12 249 144
europesales@solisinverters.com
deservice@solisinverters.com

Turkey

+90 545 651 3541 (sales) +86 574 6580 2188 (service)
europesales@solisinverters.com euservice@solisinverters.com
Istanbul, Turkey

Italy

+39 02 8295 7352
europesales@solisinverters.com itservice@solisinverters.com
Treviso, Italy

Thailand

+66 085 155 1936
sales@ginlong.com service@ginlong.com
Vibhavadi Rangsit Road, Chatucha, Bangkok 10900, Thailand

Indonesia

+86 574 6580 2188 (sales) +62 0813 8591 8539 (service)
sales@ginlong.com service@ginlong.com
Kunciran Pinang, Tangerang. Indonesia

France

+34 914 430 810 (sales) +33 971 078 736 (service)
europesales@solisinverters.com euservice@solisinverters.com

Chile

+86 574 6580 2188 (sales) +52 81 3434 2092 (service, WhatsApp only)
sales@ginlong.com service@ginlong.com

