solis

Solis: World 3rd Largest PV Inverter Manufacturer

Developing technology to power the world with clean energy

COMPANY MISSION

COMPANY PROFILE

Established in 2005, Ginlong (Solis) (Stock Code: 300763.SZ) is the world 3rd largest PV inverter manufacturer. As global manufacturer of solar & energy storage solutions for residential, commercial, utility-scale and energy storage users deliver value at every level of the solar supply chain.

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

800+
R&D Team

80GW+
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

World 3rd largest PV inverter manufacturer (2021-2022)

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)

28 Service Centers

With 28 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, Ireland, USA and Vietnam, Solis has a well-established and expanding global presence.

HQ Service Centers

GLOBAL REACH LOCAL EXPERTISE

CONTENTS

Residential Energy Storage Solutions

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.

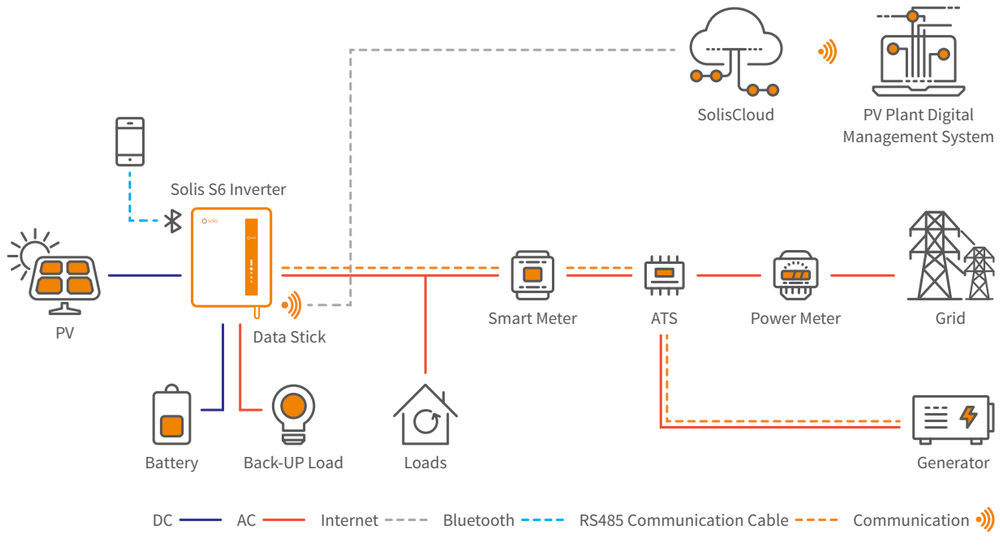
Models:

S5-EH1P(3-6)K-L
S6-EH1P(3-6)K-L-EU
RHI-3P(5-10)K-HVES-5G
S6-EH3P(5-10)K2-H
S6-EH3P(5-10)K-H-EU
S6-EA1P3K-L-S
S6-EA1P(4.6-6)K-L

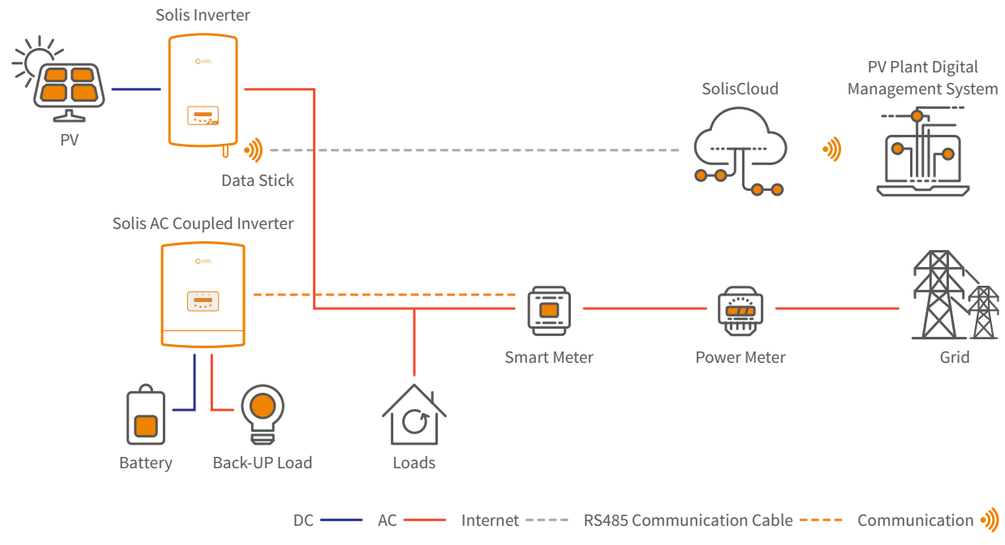
Output:

3 kW - 10 kW

Residential Energy Storage Solution - S6 series



Residential Energy Storage Solution - AC-coupled



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
- 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

360º 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 connection 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

360º View

- Monitoring Portal – www.soliscloud.com or SolisCloud App
- Compatible Batteries – Check online at www.solisinverters.com

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.

RHI-3P(5-10)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-3P5K-HVES-5G / RHI-3P6K-HVES-5G

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

360º View

DATASHEET

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

Models	5K	6K	8K	10K
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	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	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	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	5 kW	6 kW	8 kW	10 kW
Max. apparent output power	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	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	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	5 kW	6 kW	8 kW	10 kW
Peak apparent output power	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	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)				
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

360º View

- Monitoring Portal – www.soliscloud.com or SolisCloud App
- Compatible Batteries – Check online at www.solisinverters.com

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, Optional: Wi-Fi, Cellular, LAN			

(1) Activation required.

S6-EH3P(5-10)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-EH3P5K-H-EU / S6-EH3P6K-H-EU

S6-EH3P8K-H-EU / S6-EH3P10K-H-EU

360º View

• Monitoring Portal – www.soliscloud.com or SolisCloud App • Compatible Batteries – Check online at www.solisinverters.com

DATASHEET

S6-EH3P(5-10)K-H-EU

Models	5K	6K	8K	10K
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 / 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	
MPPT number/Max. input strings number	3/3		4/4	
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, Optional: Wi-Fi, Cellular, LAN			

(1) Activation required.

S6-AC COUPLED

Solis Energy Storage Inverters

Features:

- Provide intelligent time of use solution together with the monitoring group
- Compatible with multiple brands of lithium battery models
- Increased battery protection and operation features to extend battery life
- Supports Peak Shaving Mode (S6-EA1P(4.6-6)K-L)
- 6 customisable charge/discharge time settings (S6-EA1P(4.6-6)K-L)
- Industry leading 125A/6kW max charge/discharge rating (S6-EA1P(4.6-6)K-L)

Models:

S6-EA1P3K-L-S

S6-EA1P4.6K-L

S6-EA1P5K-L

S6-EA1P6K-L

DATASHEET

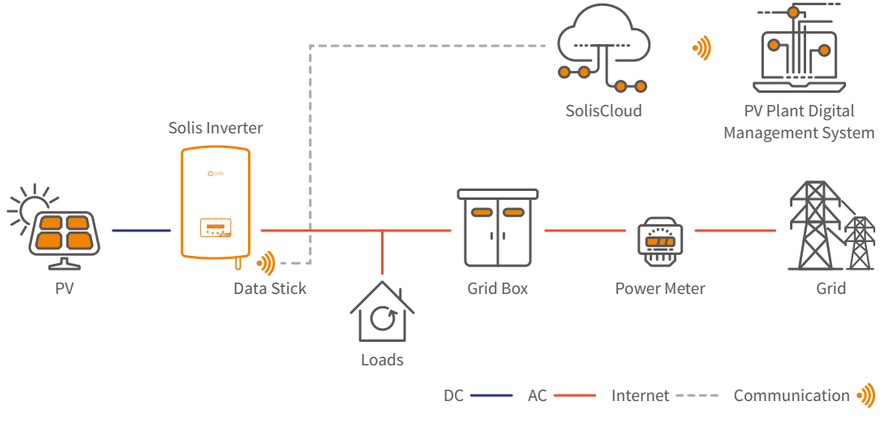
Models	S6-EA1P3K-L-S	S6-EA1P(4.6-6)K-L		
	3K	4.6K Preliminary	5K Preliminary	6K Preliminary
Battery				
Battery type	Li-ion / Lead-acid	Li-ion		
Battery voltage range	40-60 V			
Max. charge power	3 kW	4.6 kW	5 kW	6 kW
Max. discharge power	3.3 kW	4.9 kW	5.3 kW	6.3 kW
Max. charge / discharge current	60 A	96 A	105 A	125 A
Communication	CAN			
Output AC (Grid side)				
Rated output power	3 kW	4.6 kW	5 kW	6 kW
Max. apparent output power	3.3 kVA	4.6 kVA	5 kVA	6 kVA
Operation phase	1/N/PE			
Rated grid voltage	220 V / 230 V			
Grid voltage range	187-253 V			
Rated grid frequency	50 Hz / 60 Hz			
Rated grid output current	13.6 A / 13 A	21 A / 20 A	22.8 A / 21.8 A	27.3 A / 26.1 A
Max. output current	13.6 A	21 A	22.8 A	27.3 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)			
THDi	<3%			
Input AC (Grid side)				
Input voltage range	187-253 V			
Max. input current	23 A	21 A / 20 A	22.8 A / 21.8 A	27.3 A / 26.1 A
Max. input power	3 kW	4.6 kW	5 kW	6 kW
Frequency range	45-55 Hz / 55-65 Hz			
Efficiency				
BAT charged/discharged to AC Max. efficiency	> 93.5%			
Protection				
Protection class	I			
Over voltage category	DC II / AC III			
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	440*465*184 mm		
Weight	12.1 kg	24.5 kg		
Topology	High frequency isolation			
Operating ambient temperature range	-25 ~ +60℃			
Ingress protection	IP65	IP66		
Cooling concept	Natural convection			
Max. operation altitude	2000 m	4000 m		
Grid connection standard	G98, G99			
Safety/EMC standard	IEC 62477, EN 61000-6-2/-3	IEC/EN 62109-1/-2, EN 61000-6-2/-3		
Features				
DC connection	Terminal Block			
AC connection	Screw clamp terminal	Quick connection plug		
Display	LCD+APP	LED + APP		
Communication	RS485, CAN, Optional: Wi-Fi, LAN			

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(0.7-3.6)K-M / S6-GR1P(2.5-6)K
S6-GR1P(2.5-6)K-S / S6-GR1P(7-8)K2
S5-GR1P(7-10)K / S5-GR3P(3-20)K

Output:

0.7 kW - 20 kW

S6-GR1P(0.7-3.6)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
- Integrated Export Power Manager (EPM)
- AFCI protection, proactively reduces fire risk
- Compact and lightweight
- Friendly and adaptable connection to the grid

Models:

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

360º View

DATASHEET

S6-GR1P(0.7-3.6)K-M

Models	0.7K	1K	1.5K	2K	2.5K	3K	3.6K
Input DC							
Recommended max. PV power	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	0.7 kW	1 kW	1.5 kW	2 kW	2.5 kW	3 kW	3.6 kW
Max. apparent output power	0.77 kVA	1.1 kVA	1.65 kVA	2.2 kVA	2.75 kVA	3.3 kVA	3.6 kVA
Max. output power	0.77 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	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	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
- Integrated 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

360º View

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
- Integrated 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(7-10)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-GR1P7K / S5-GR1P8K

S5-GR1P9K / S5-GR1P10K

DATASHEET

S5-GR1P(7-10)K

Models	7K	8K	9K	10K
Input DC				
Recommended max. PV power	10.5 kW	12 kW	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	7 kW	8 kW	9 kW	10 kW
Max. apparent output power	7.7 kVA	8.8 kVA	9.9 kVA	10 kVA
Max. output power	7.7 kW	8.8 kW	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	31.8 A / 30.4 A	36.4 A / 34.8 A	40.9 A / 39.1 A	45.5 A / 43.5 A
Max. output current	33.7 A	36.6 A	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(3-20)K

Solis Three Phase Inverters

Efficient

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

Safe

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

Smart

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

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

360º 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.

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 exoported & 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 eficient, 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

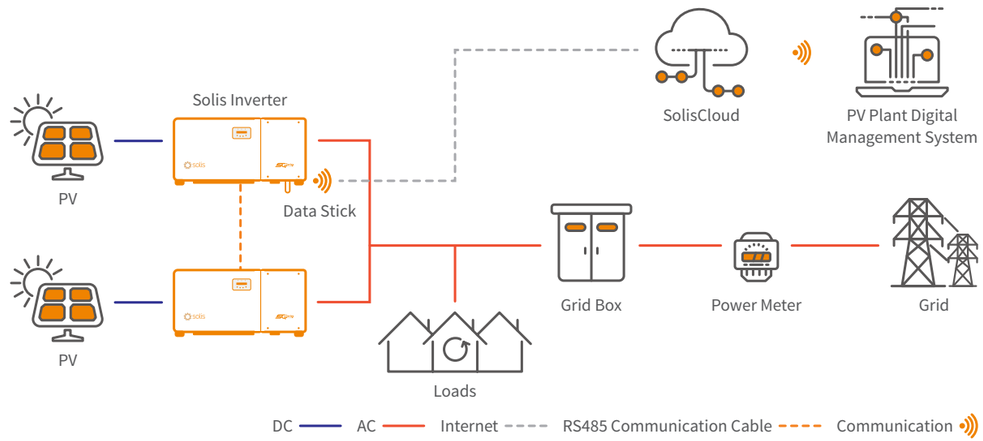
Solis industrial and commercial string inverter product line is rich, the power range covers 25kW - 110kW, no matter how large your design and requirements are, we can rely on our flexible products to provide you with the best industry green power solutions.

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 110kW. 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(25-40)K / S5-GC(50-60)K
Solis-80K-5G / S5-GC80K
Solis-(80-110)K-5G-PRO / Solis-(100-110)K-5G
S5-GC(100-110)K

Output: 25kW - 110kW

Commercial & Industrial Solar PV Solution



S5-GC(25-40)K

Solis Three Phase Inverters

Efficient

- Max. efficiency 98.7%
- 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

Safe

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

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

Economic

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

Models:

S5-GC25K / S5-GC30K

S5-GC33K / S5-GC36K

S5-GC40K

360º View

DATASHEET

S5-GC(25-40)K

Models	25K	30K	33K	36K	40K
Input DC					
Recommended max. PV power	37.5 kW	45 kW	49.5 kW	54 kW	60 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
Max. apparent output power	27.5 kVA	33 kVA	36.3 kVA	39.6 kVA	44 kVA
Max. output power	27.5 kW	33 kW	36.3 kW	39.6 kW	44 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	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
Max. output current	41.8 A	50.2 A	55.1 A	60.2 A	66.9 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)				
THDi	<3%				
Efficiency					
Max. efficiency	98.5%		98.6%	98.7%	
EU efficiency	98.1%		98.2%	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				
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.

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)

Safe

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

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

Economic

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

Models:

S5-GC50K / S5-GC60K

360º 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 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.

Solis-80K-5G

Solis Three Phase Inverters

Efficient

- 9 MPPTs, max. efficiency 98.7%
- > 150% DC/AC ratio
- Compatible with bifacial modules

Safe

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

Smart

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

Economic

- Power line communication (PLC) (optional)
- DC side supports "Y" connector

Models:

Solis-80K-5G

360° View

DATASHEET — Solis-80K-5G

Models	80K
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	9*26 A
Max. short circuit current	9*40 A
MPPT number/Max. input strings number	9/18
Output AC	
Rated output power	80 kW
Max. apparent output power	88 kVA
Max. output power	88 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
Max. output current	133.7 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
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 mm^2)
Display	LCD
Communication	RS485, Optional: Wi-Fi, GPRS, PLC

(1) Activation required.

S5-GC80K

Solis Three Phase Inverters

Efficient

- 9 MPPTs, max. efficiency 98.7%
- > 150% DC/AC ratio
- String current up to 16A, perfectly match large current bifacial modules

Safe

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

Smart

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

Economic

- Power line communication (PLC) (optional)
- DC side supports "Y" connector

Models:

S5-GC80K

360° View

DATASHEET

S5-GC80K

Models	80K
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	9*32 A
Max. short circuit current	9*40 A
MPPT number/Max. input strings number	9/18
Output AC	
Rated output power	80 kW
Max. apparent output power	88 kVA
Max. output power	88 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
Max. output current	133.7 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
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 mm^2)
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

Safe

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

Smart

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

Economic

- Power line communication (PLC) (optional)
- DC side supports "Y" connector

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	40 A /32 A / 40 A / 32 A / 40 A / 32 A	40 A / 32 A / 40 A / 32 A / 40 A / 32 A / 40 A / 32 A	
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 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 mm^2)		
Display	LCD		
Communication	RS485, Optional: Wi-Fi, GPRS, PLC		

(1) Activation required.

Solis-(100-110)K-5G

Solis Three Phase Inverters

Efficient

- 10 MPPTs, max. efficiency 98.7%
- > 150% DC/AC ratio
- High power tracking density 100MPPT/MW
- Compatible with bifacial modules

Safe

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

Smart

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

Economic

- Power line communication (PLC) (optional)
- DC side supports "Y" connector

Models:

Solis-100K-5G

Solis-110K-5G

360º View

DATASHEET

Solis-(100-110)K-5G

Models	100K	110K
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	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
Max. apparent output power	110 kVA	121 kVA
Max. output power	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	152.0 A / 144.3 A	167.1 A / 158.8 A
Max. output current	167.1 A	183.8 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 (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 mm^2)	
Display	LCD	
Communication	RS485, Optional: Wi-Fi, GPRS, PLC	

(1) Activation required.

S5-GC(100-110)K

Solis Three Phase Inverters

Efficient

- 10 MPPTs, max. efficiency 98.7%
- > 150% DC/AC ratio
- High power tracking density 100MPPT/MW
- String current up to 16A, perfectly match large current bifacial modules

Safe

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

Smart

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

Economic

- Power line communication (PLC) (optional)
- DC side supports "Y" connector

Models:

S5-GC100K

S5-GC110K

DATASHEET S5-GC(100-110)K

Models	100K	110K
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	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
Max. apparent output power	110 kVA	121 kVA
Max. output power	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	152.0 A / 144.3 A	167.1 A / 158.8 A
Max. output current	167.1 A	183.8 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 (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 mm^2)	
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 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.

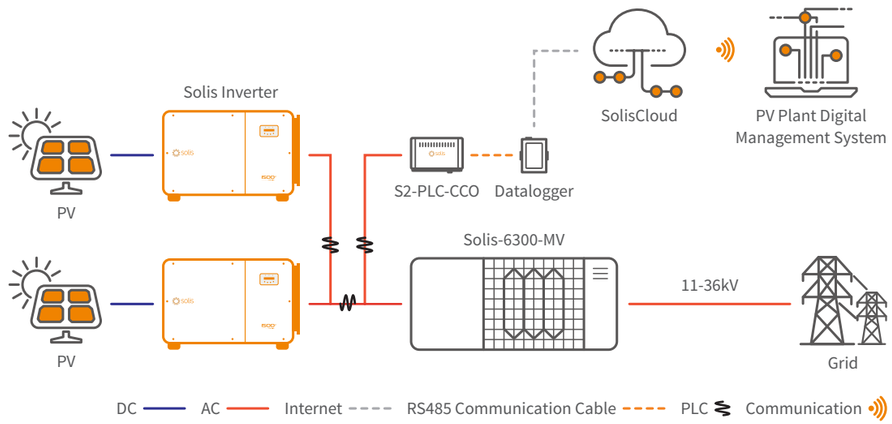
Models:

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

Output:

215 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 55MPPT/MW
- Compatible with 500W+ bifacial modules

Safe

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

Smart

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

Economic

- Power line communication (PLC) (optional)
- DC side supports "Y" connector

Models:

Solis-215K-EHV-5G-PLUS

Solis-255K-EHV-5G

Solis-255K-EHV-5G-PLUS

360º View

DATASHEET

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

Models	215K-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
Max. short circuit current	9*50 A	14*40 A	12*50 A
MPPT number/Max. input strings number	9/18	14/28	12/24
Output AC			
Output power	215 kVA@30°C / 205 kVA@ 40°C / 195 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	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%
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 mm^2)		
Display	LCD		
Communication	RS485, Optional: PLC		

Solis-6300-MV

Solis MV Station

For 1500 V string inverter Solis 255K

Integrated delivery

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

Reliable products

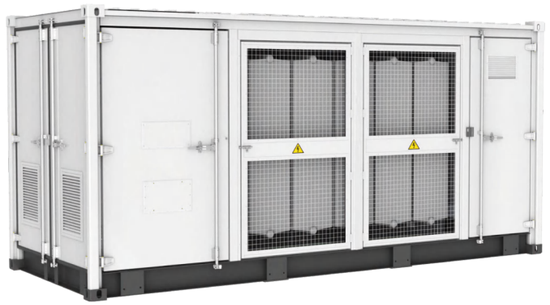
- LV panel, transformer and RMU to be placed independently
- Adopt international first-line brand equipment with reliable quality

Convenient installation

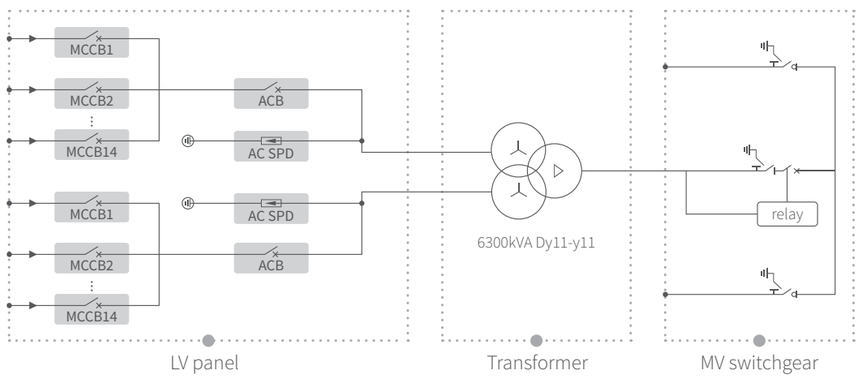
- A complete solution, from inverter to main step-up transformer
- When the container is lifted to the foundation, only LV and MV cables need to be connected

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 ambient 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

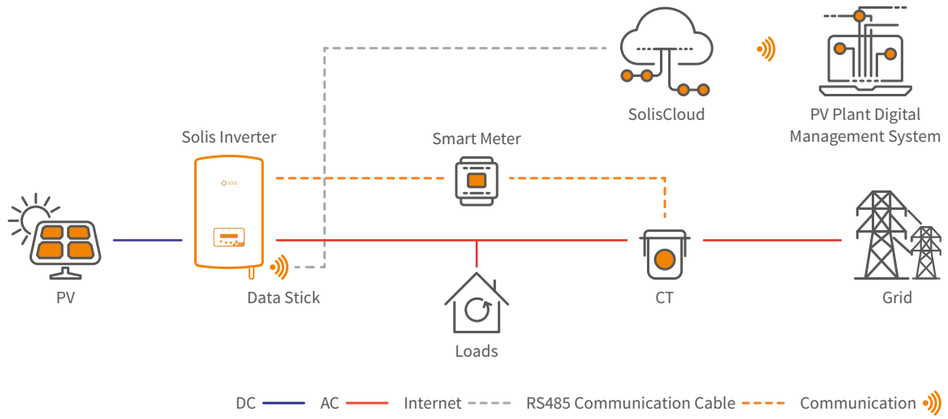
After the project is put into operation, the generating capacity is estimated to be 400,000,000 kWh/ year and delivers a reduction of 350, 000 tons of CO_2, 12,000 tons of SO_2, and 110,000 tons of Carbon dust. Solis commercial scale string inverters boast an abundance of technological features which 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.

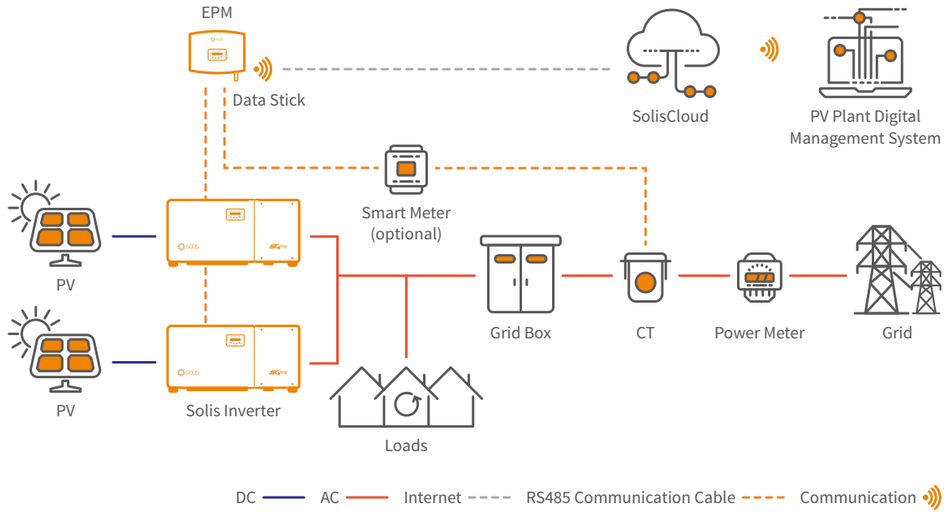
Export Power Management Solutions - Single-inverter System

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

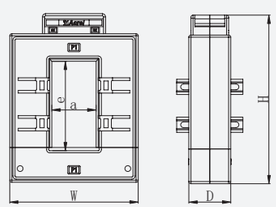
Solis-EPM3-5G-PLUS

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			488*446*149 mm
Weight	2.1 kg (without CT, Meter)			5.4 kg (without CT)
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 function	Yes			
Remote upgrade	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

S1-W4G-ST

S1-W4G-ST (4 Pin) S1-W4G-ST (USB)

S4-WiFi-ST

S4-WiFi-ST

S3-Logger

S3-Logger

Solis-Link: RF

RF-Stick

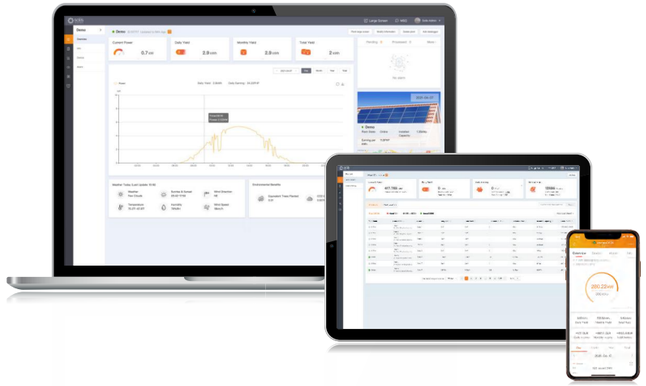
RF Gateway

SolisCloud

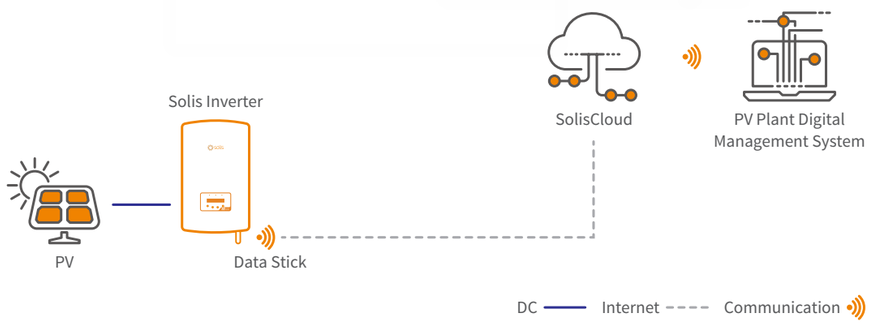
New generation Solis PV monitoring platform

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

Accessories available:

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

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.

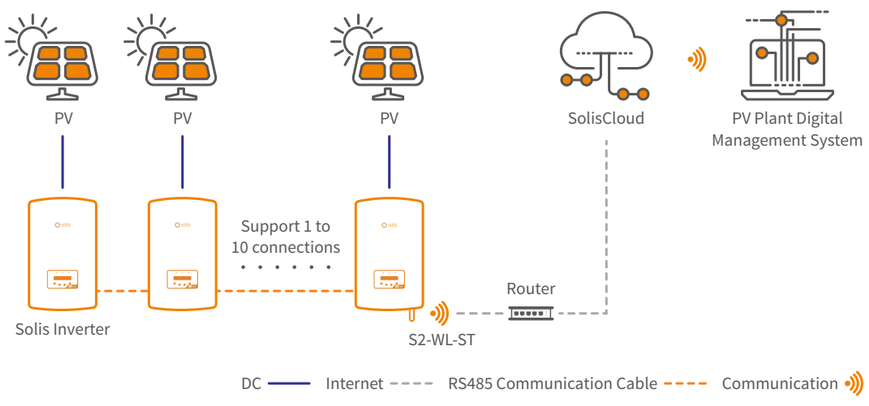
Features:

- 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 ambient temperature range	-30 ~ +65°C	
Operating humidity	5%-95%, relative humidity, non-condensing	
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

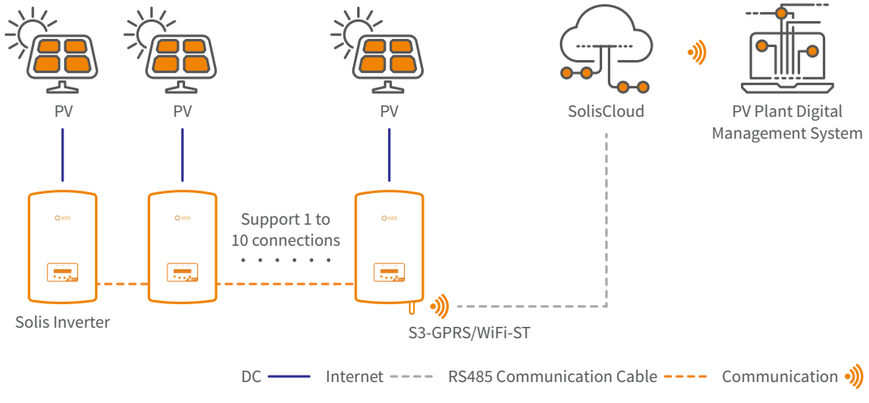
Use RS485 communication method to connect the inverter, and data connection through wireless WiFi network or GPRS, which can realize remote control and monitoring. The network transmits intuitive data, which is convenient for customers to monitor at any time and place.

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

S3-GPRS-ST S3-WiFi-ST

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 ambient temperature range	-30 ~ +65°C	
Operating humidity	5%-95%, relative humidity, non-condensing	
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.

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.

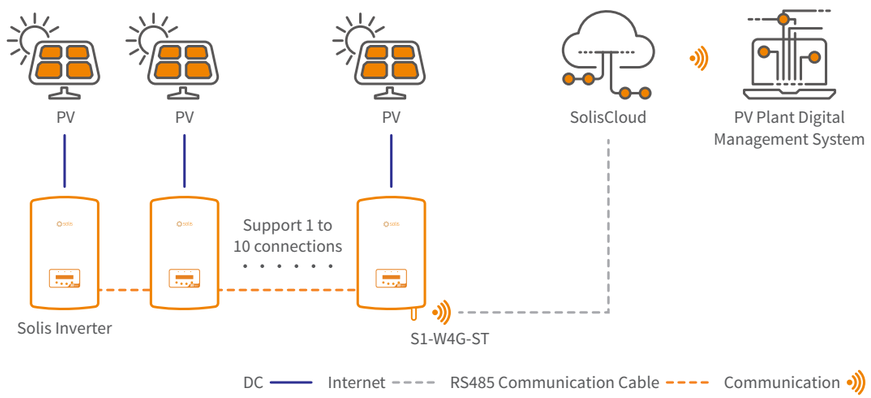
Features:

- 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 ambient temperature range	-30 ~ +65°C	
Operating humidity	5%-95%, relative humidity, non-condensing	
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.

S4-WiFi-ST

Accessories - Solis Data Logging Stick

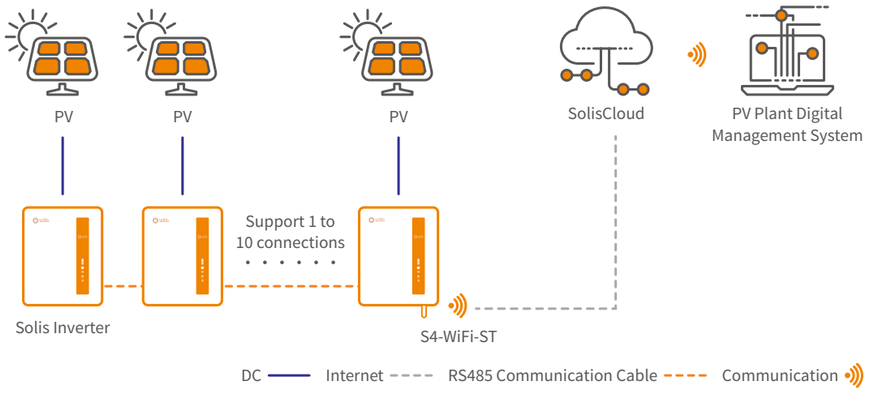
Use RS485 communication method to connect the inverters, up to 10 inverters can be connected at the same time. Data communication with the monitoring system through wireless WiFi network, which can realize remote control and monitoring. The network transmits intuitive data, which is convenient for customers 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 ambient temperature range	-30 ~ +65°C
Operating humidity	5%-95%, relative humidity, non-condensing
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.

S3-Logger

Accessories - Solis C&I Data Logging Device

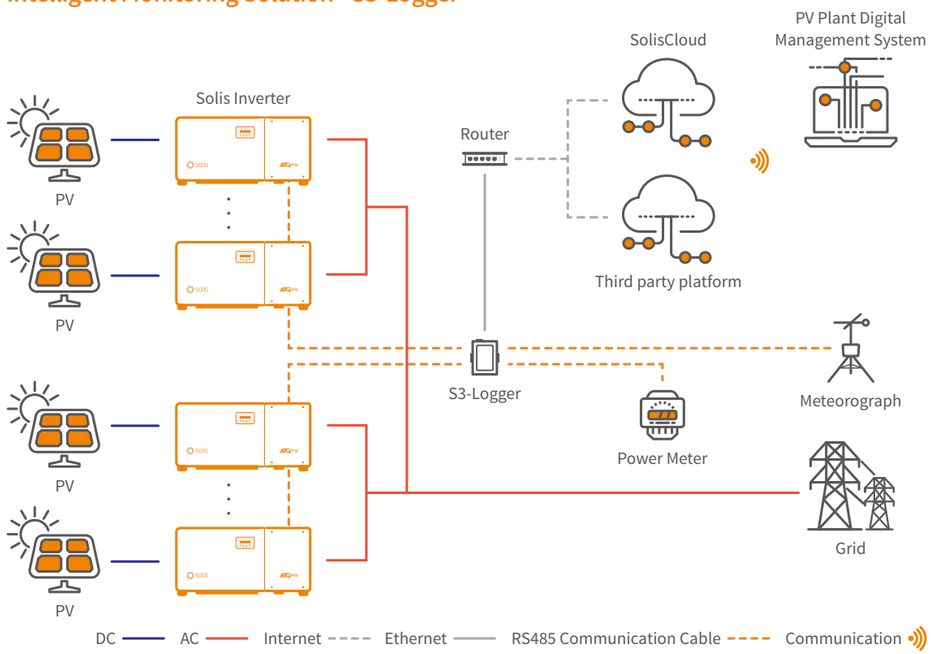
S3-Logger is a data acquisition and protocol conversion device applied to PV equipment in PV power plants, which can support access of meters, weather stations and other equipment.

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 ambient temperature range	-40 ~ +80°C
Operating humidity	≤85%, relative humidity, non-condensing
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.

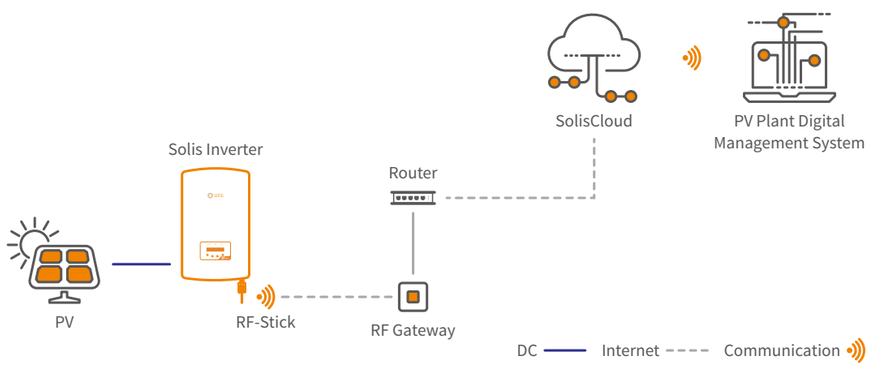
Features:

- 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

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, non-condensing	
Storage temperature	-45 ~ +90℃	
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	

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