Solis: The World's 3rd Largest PV Inverter Manufacturer

AUSTRALIA

GINLONG TECHNOLOGIES CO., LTD.

Developing technology to power the world with clean energy

COMPANY MISSION

COMPANY PROFILE

Established in 2005, Ginlong (Solis) (Stock Code: 300763.SZ) stands as the world's third-largest PV inverter manufacturer. As a global provider of solar and energy storage solutions catering to residential, commercial, and utility-scale customers, we deliver value across the solar supply chain. Operating under the Solis brand, our solar inverter product line employs innovative string technology, ensuring top-tier reliability validated through rigorous international certifications.

By amalgamating a global supply chain with world-class R&D and manufacturing capabilities, Ginlong tailors Solis inverters to each regional market, with dedicated teams of local experts providing exceptional service and support. Our proven bankability has garnered support from leading financial institutions, assuring robust, long-term returns on investment. Collaborating with stakeholders, we are committed to expediting the world's journey towards a more sustainable future.

2005
Establishment

800+
R&D Team

TOP500
Global New Energy Enterprises

80GW+
Manufacturing Capacity

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
The World's 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
Forbes China's Top 50 Innovative Enterprises

2024
Ranks among the top PV brands by EUPD research for 9 consecutive years (2016-2024)

47 Service Centers

With 47 offices and service centers around the world, including the UK, France, Italy, Netherlands, Spain, Poland, Sweden, Turkey, Germany, Lithuania, Switzerland, Greece, Portugal, Ireland, Austria, Romania, Ukraine, Hungary, Latvia, Finland, Denmark, Croatia, Balkans, Bulgaria, Czech Republic, Slovenia, South Africa, China, India, Indonesia, Korea, Myanmar, Malaysia, Philippines, Pakistan, Singapore, Sri Lanka, Thailand, Vietnam, Israel, Lebanon, Australia, Brazil, USA, Canada, Mexico and Chile, Solis has a well-established and expanding global presence.

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:

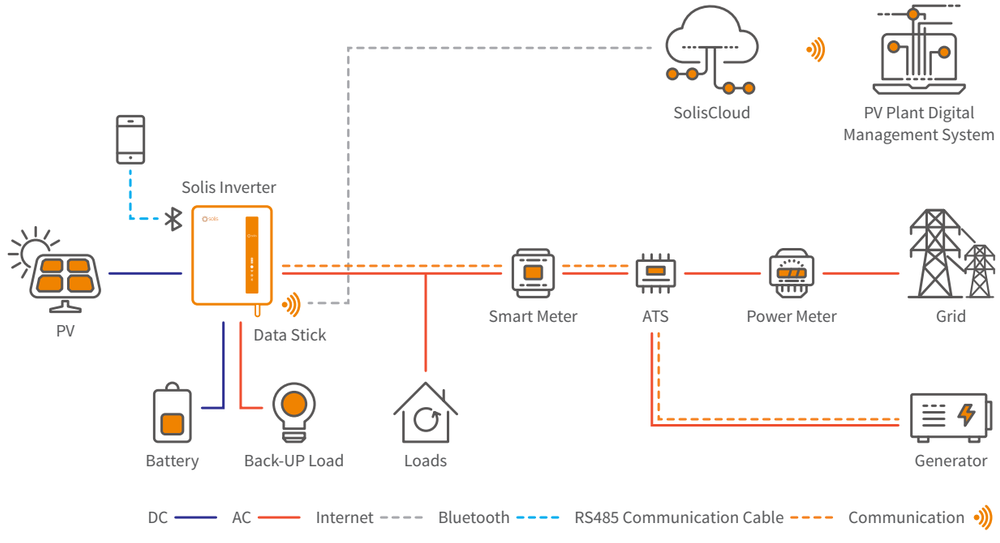
S5-EH1P(3-6)K-L
S6-EH1P(3-6)K-L-AU
S6-EH1P(3-8)K-L-PLUS-AU
S6-EH3P(5-10)K-H-AU
S6-EA1P(3.6-6)K-L

Output:

3 kW - 10 kW

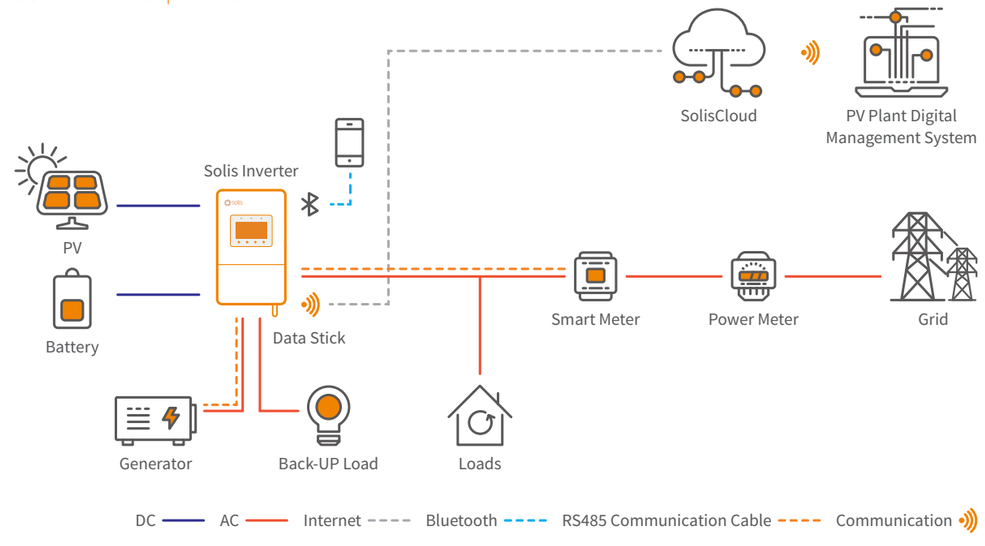
Residential Energy Storage Solution

Generator on Grid side



Residential Energy Storage Solution

Generator on Gen port side



S5-EH1P(3-6)K-L

Solis Single Phase Low Voltage Energy Storage Inverters

Features:

- Max. string input current 15A
- Uninterrupted power supply, 20ms reaction
- 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

- Wi-Fi communication dongle included

DATASHEET

S5-EH1P(3-6)K-L

Models	3K	3.6K	4.6K	5K	6K
Input DC (PV side)					
Recommended max. PV power	6 kW	7.2 kW	9.2 kW	10 kW	12 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 s			7 kVA, 10 s	
Back-up switch time			< 20 ms		
Rated output voltage			1/N/PE, 230 V		
Rated frequency			50 Hz		
Rated output current	13.5 A			22 A	
THDv (@linear load)			< 2%		
Input AC (Grid side)					
Input voltage range			187 - 265 V		
Max. input current	20.5 A	25 A	31.5 A	34.5 A	34.5 A
Frequency range			45 - 55 Hz		
Output AC (Grid side)					
Rated output power	3 kW	3.6 kW	4.6 kW	5 kW	6 kW
Rated apparent output power	3 kVA	3.6 kVA	4.6 kVA	5 kVA	6 kVA
Max. apparent output power	3 kVA	3.6 kVA	4.6 kVA	5 kVA	6 kVA
Operation phase			1/N/PE		
Rated grid voltage			230 V		
Rated grid frequency			50 Hz		
Rated grid output current	15 A	18.5 A	21 A	25 A	30 A
Max. output current	15 A	18.5 A	21 A	25 A	30 A
Inrush current			65 A, 10 us		
Max. output fault current			65 A, 10 us		
Max. output overcurrent protection	16 A	20 A	22 A	26 A	31 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			Yes [1]		
Protection class / Over voltage category			I / II (PV), II (battery), III (AC)		
Integrated DC switch			Yes (PV2 Switch)		
General Data					
Dimensions (W × H × D)			333 × 505 × 249 mm		
Weight	17.9 kg			18.1 kg	
Topology			Non-isolated		
Operating ambient temperature range			-25 ~ +60°C		
Ingress protection			IP65		
Cooling concept			Natural cooling		
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 display		
Communication			RS485, Optional: Wi-Fi, GPRS		
Country of manufacture			China		

(1) Activation required.

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

Solis Single Phase Low Voltage 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
- Compatible with multiple brands of lithium battery models
- Increased battery protection and operation features to extend battery life

Models:

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

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

S6-EH1P6K-L-AU

360º View

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

DATASHEET S6-EH1P(3-6)K-L-AU

Models	3K	3.6K	4.6K	5K	6K
Input DC (PV side)					
Recommended max. PV power	6 kW	7.2 kW	9.2 kW	10 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	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 kVA	3.6 kVA	4.6 kVA	5 kVA	6 kVA
Operation phase	1/N/PE				
Rated grid voltage	230 V				
Rated grid frequency	50 Hz				
Rated grid output current	13.0 A	15.7 A	20 A	21.7 A	26.1 A
Max. output current	13.0 A	15.7 A	20 A	21.7 A	26.1 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)				
THDi	3%				
Input AC (Grid side)					
Rated voltage	230 V				
Max. input current	20 A	24.6 A	31.4 A	32 A	40 A
Frequency range	50 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 s	5 kVA, 60 s	6.4 kVA, 60 s	7 kVA, 60 s	8 kVA, 60 s
Back-up switch time	< 10 ms				
Rated output voltage	1/N/PE, 230 V				
Rated frequency	50 Hz				
Rated. output current	13.0 A	15.7 A	20 A	21.7A	26.1 A
THDv (@linear load)	3%				
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	Yes (1)				
Protection class / Over voltage category	I / II				
General Data					
Dimensions (W × H × D)	405 × 480 × 205 mm				
Weight	20.3 kg		22.4 kg		
Topology	High frequency isolation (for battery)				
Operating ambient temperature range	-25 ~ +60°C				
Ingress protection	IP66				
Cooling concept	Natural cooling				
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, TOR, 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 indicator & Bluetooth + APP				
Communication	RS485, CAN, Optional: Wi-Fi, GPRS, LAN				
Country of manufacture	China				

(1) Activation required.

S6-EH1P(3-8)K-L-PLUS-AU

Solis Single Phase Low Voltage Energy Storage Inverters

New PLUS model provides solutions for demanding power scenarios

Features:

- Generator-compatible to extend backup duration during grid power outage
- Multiple inverters can operate together to form a microgrid
- Supports dual backup ports for intelligent control of critical and non-critical loads
- 10 seconds of 200% overload capability
- Automatic switchover time is < 4ms, providing seamless transitions from grid to backup
- Ensures excellent power supply stability, keeping the load unaffected by a weak grid or generator supply fluctuations

Models:

S6-EH1P3K-L-PLUS-AU / S6-EH1P3.6K-L-PLUS-AU

S6-EH1P5K-L-PLUS-AU / S6-EH1P6K-L-PLUS-AU

S6-EH1P8K-L-PLUS-AU

DATASHEET S6-EH1P(3-8)K-L-PLUS-AU

Models	3K	3.6K	5K	6K	8K
Input DC (PV side)					
Recommended max. PV array size	6 kW	7.2 kW	10 kW	12 kW	16 kW
Max. usable PV input power	4.8 kW	5.76 kW	8 kW	9.6 kW	12.8 kW
Max. input voltage	500 V				
Rated voltage	330 V				
Start-up voltage	90 V				
MPPT voltage range	90 - 435 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
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	8 kW
Max. charge / discharge current	70 A	80 A	112 A	135 A	190 A
Communication	CAN / RS485				
Output AC (Grid side)					
Rated output power	3 kW	3.6 kW	5 kW	6 kW	8 kW
Max. apparent output power	3 kVA	3.6 kVA	5 kVA	6 kVA	8 kVA
Operation phase	1/N/PE				
Rated grid voltage	230 V				
Rated grid frequency	50 Hz				
Rated grid output current	13.1 A	15.7 A	21.8 A	26.1 A	34.8 A
Max. output current	13.1 A	15.7 A	21.8 A	26.1 A	34.8 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	24 A	31 A	39 A	50 A
Frequency range	45 - 55 Hz				
Output AC (Back-up)					
Rated output power	3 kW	3.6 kW	5 kW	6 kW	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, 230 V				
Rated frequency	50 Hz				
Rated output current	13.1 A	15.7 A	21.8 A	26.1 A	34.8 A
Max. AC passthrough current	35 A	35 A	40 A	40 A	50 A
THDv (@linear load)	< 2%				
Efficiency					
Max. efficiency	96.2%				
EU efficiency	94.7%				
BAT charged by PV / AC max. efficiency	95.3% / 94.5%				
BAT discharged to AC max. efficiency	94.9%				
Protection					
Ground fault monitoring	Yes				
DC reverse-polarity protection	Yes				
Integrated AFCI 2.0	Optional				
Protection class / Over voltage category	I / II(PV and BAT), III (MAINS and BACKUP and GEN)				
General Data					
Dimensions (W × H × D)	335 × 560 × 227 mm				
Weight	22 kg				22.5 kg
Topology	Transformerless				
Operating ambient temperature range	-40 ~ +60℃				
Ingress protection	IP66				
Cooling concept	Natural cooling			Intelligent fan-cooling	
Max. operation altitude	4000 m				
Grid connection standard	AS 4777				
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 indicator & Bluetooth + APP				
Communication	RS485, CAN, Optional: Wi-Fi, GPRS, LAN				
Country of manufacture	China				

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

Solis Three Phase High Voltage Energy Storage Inverters

Highly Flexible

- 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-AU / S6-EH3P6K-H-AU

S6-EH3P8K-H-AU / S6-EH3P10K-H-AU

360° View

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

DATASHEET

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

Models	5K	6K	8K	10K
Input DC (PV side)				
Recommended max. PV power	10 kW	12 kW	16 kW	20 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		4 × 16 A	
Max. short circuit current	24 A / 24 A / 24 A		4 × 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			
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)				
Input voltage range	304 - 437 V			
Max. input current	11.4 A	13.8 A	18.2 A	22.8 A
Rated grid frequency	50 Hz			
Frequency range	45 - 55 Hz			
Output AC (Back-up)				
Rated output power	5 kW	6 kW	8 kW	10 kW
Max. apparent output power	8 kVA, 60 s	9.6 kVA, 60 s	12.8 kVA, 60 s	16 kVA, 60 s
Back-up switch time	< 10 ms			
Rated output voltage	3/N/PE, 380 V / 400 V			
Rated frequency	50 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	96.50%	97.00%	97.50%	97.90%
EU efficiency	96.77%	97.10%	97.41%	97.51%
BAT charged by PV max. efficiency	98.37%	98.45%	98.22%	98.31%
BAT charged / discharged to AC max. efficiency	97.32%	97.34%	97.50%	97.50%
Protection				
Anti-islanding protection	Yes			
Output over current protection	Yes			
Short circuit protection	Yes			
Integrated AFCI 2.0	Optional			
Integrated DC switch	Yes			
DC reverse-polarity protection	Yes			
PV over voltage protection	Yes			
Battery reverse protection	Yes			
General Data				
Max. allowable phase imbalance (grid & back-up)	100%			
Max. power per phase (grid & back-up)	50% rated power			
Dimensions (W × H × D	600 × 500 × 210 mm		600 × 500 × 230 mm	
Weight	27.6 kg		30.2 kg	
Topology	Transformerless			
Self-consumption (night)	< 25 W			
Operating ambient temperature range	-25 ~ +60°C			
Relative humidity	0 - 95%			
Ingress protection	IP66			
Noise emission (typical)	< 46.9 dB(A)			
Cooling concept	Natural 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, MEA, PEA			
Safety / EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-3			
Features				
PV connection	MC4 connector			
Battery connnection	Quick connection plug			
AC connection	Quick connection plug			
Display	LED indicator & Bluetooth + APP			
Communication	CAN, RS485, Optional: Wi-Fi, Cellular, LAN			
Country of manufacture	China			

S6-EA1P(3.6-6)K-L

Solis Single Phase Low Voltage AC-Coupled Inverters

Features:

- Supports six different battery charging and discharging TOU (Time of Use) settings to lower your electricity bill
- Supports general setting options for lithium batteries, suitable for non-communicating batteries
- Real-time battery monitoring, remote upgrade, and battery healing function to prolong battery life
- Supports peak shaving features in "self-use" and "generator" modes
- Facilitates low-power standby mode to minimize overall system power usage

Models:

S6-EA1P3.6K-L

S6-EA1P4.6K-L

S6-EA1P5K-L

S6-EA1P6K-L

DATASHEET

S6-EA1P(3.6-6)K-L

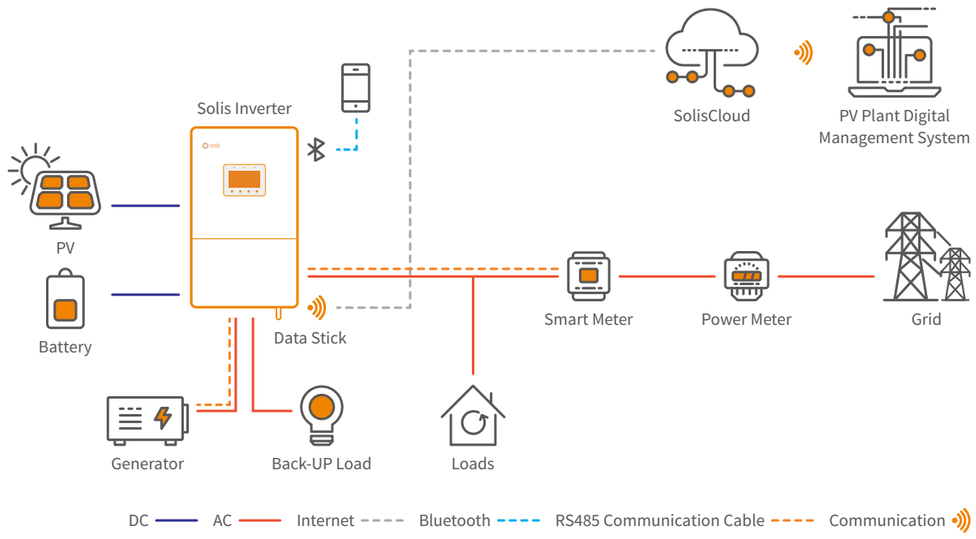
Models	3.6K	4.6K	5K	6K
Battery				
Battery type	Li-ion			
Battery voltage range	40 - 60 V			
Start up voltage	40 V			
Max. charge / discharge current	75 A	96 A	105 A	125 A
Communication	CAN			
Input AC (Grid side)				
Input voltage range	187 - 253 V			
Max. input current	16.4 A / 15.7 A	21 A / 20 A	22.8 A / 21.8 A	27.3 A / 26.1 A
Frequency range	45 - 55 Hz / 55 - 65 Hz			
Output AC (Grid side)				
Rated output power	3.6 kW	4.6 kW	5 kW	6 kW
Max. apparent output power	3.6 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			
Rated grid output current	16.4 A / 15.7 A	21 A / 20 A	22.8 A / 21.8 A	27.3 A / 26.1 A
Max. output current	16.4 A / 15.7 A	21 A / 20 A	22.8 A / 21.8 A	27.3 A / 26.1 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)			
THDi	< 3%			
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)	440 × 465 × 192 mm			
Weight	19.9 kg			
Topology	High frequency isolation			
Operating ambient temperature range	-25 ~ +60°C			
Ingress protection	IP66			
Cooling concept	Natural cooling			
Max. operation altitude	3000 m			
Grid connection standard	C10/11, 50549, G98, G99, VDE4105, AS4777.2, France			
Safety / EMC standard	IEC/EN 62109-1/-2, EN 61000-6-2/-3			
Features				
DC connection	Terminal Block			
AC connection	Quick connection plug			
Display	LED indicator & Bluetooth + APP			
Communication	RS485, CAN, Optional: Wi-Fi, LAN			
Country of manufacture	China			

Commercial Energy Storage Solutions

Solis commercial storage product S6-EH3P(29.9-50)K-H-AU, is a highly integrated three-phase energy storage inverter, it has multiple functions, high safety level, strong energy supply reliability, which is a powerful tool for commercial PV energy storage projects.

It has 4 MPPT design, PV string current up to 20A, can be adapted to a variety of high-efficiency high-power PV module, to meet a variety of complex commercial roof application requirements; At the same time, the product can be compatible with a variety of generators can automatically control the generator start and stop, and support the generator port function expansion, to achieve backup loads redundancy or grid-tied PV system coupling networking; the product supports up to 6 parallel operation, and contains rich security protection and intelligent control operation functions, which is very suitable for small enterprises PV energy storage needs.

Commercial Energy Storage Solution



Models:

S6-EH3P(29.9-50)K-H-AU

Output:

29.9 kW - 50 kW

S6-EH3P(29.9-50)K-H-AU

Solis Three Phase High Voltage Energy Storage Inverters

Features:

- 2 seconds of 160% overload capability
- Supports a maximum input current of 20A, making it ideal for all high-power PV modules of any brand
- Real-time battery monitoring, remote upgrade, and battery healing function to prolong battery life
- Supports peak shaving features in "self-use" and "generator" modes
- Supports Unbalanced and Half-Wave Loads on both the Grid and Backup Port
- A wide battery voltage range accommodates the prevalent high-voltage lithium batteries found in the market
- Battery charging/discharging current 140A/70A+70A, suitable for 280Ah cell standard 0.5C application condition
- Supports 200% DC/AC ratio and makes full use of PV charging, providing a long backup

Models:

S6-EH3P29.9K-H-AU / S6-EH3P30K-H-AU

S6-EH3P40K-H-AU / S6-EH3P50K-H-AU

DATASHEET

S6-EH3P(29.9-50)K-H-AU

Models	29.9K	30K	40K	50K
Input DC (PV side)				
Recommended max. PV array size	59.8 kW	60 kW	80 kW	100 kW
Max. input voltage	1000 V			
Rated voltage	600 V			
Start-up voltage	180 V			
MPPT voltage range	150 - 850 V			
Max. input current	40 A / 40 A / 40 A		4 × 40 A	
Max. short circuit current	45 A / 45 A / 45 A		4 × 45 A	
MPPT number / Max. input strings number	3 / 6		4 / 8	
Battery				
Battery type	Li-ion			
Battery voltage range	150 - 800 V			
Max. charge / discharge power	32.1 kW	33 kW	44 kW	55 kW
Max. charge / discharge current	70 A × 2 (1)			
No. of battery inputs	2			
Max. charge / discharge power of each input	32.1 kW	33 kW	35 kW	35 kW
Communication	CAN / RS485			
Output AC (Grid side)				
Rated output power	29.9 kW	30 kW	40 kW	50 kW
Max. apparent output power	29.9 kVA	30 kVA	40 kVA	50 kVA
Rated grid voltage	3/N/PE, 230 V / 400 V			
Rated grid frequency	50 Hz			
Rated grid output current	43.2 A	43.3 A	57.7 A	72.2 A
Max. output current	43.2 A	43.3 A	57.7 A	72.2 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)			
THDi	< 3%			
Input AC (Grid side)				
Max. AC passthrough current	86.4 A	86.6 A	115.4 A	144.4 A
Rated input voltage	3/N/PE, 230 V / 400 V			
Rated input frequency	50 Hz			
Input Generator				
Max. input power	29.9 kW	30 kW	40 kW	50 kW
Rated input current	43.2 A	43.3 A	57.7 A	72.2 A
Rated input voltage	3/N/PE, 230 V / 400 V			
Rated input frequency	50 Hz			
Output AC (Back-up)				
Rated output power	29.9 kW	30 kW	40 kW	50 kW
Max. apparent output power	1.6 times of rated power, 2 s			
Back-up switch time	< 10 ms			
Rated output voltage	3/N/PE, 230 V / 400 V			
Rated frequency	50 Hz			
Rated output current	43.2 A	43.3 A	57.7 A	72.2 A
THDv (@linear load)	< 2%			
Efficiency				
Max. efficiency	97.8%			
EU efficiency	97.4%			
BAT charged by PV max. efficiency	98.5%			
BAT charged / discharged to AC max. efficiency	97.5%			
Protection				
Anti-islanding protection	Yes (Active frequencey shifting)			
Output over current protection	Yes			
Short circuit protection	Yes			
Integrated DC switch	Yes			
DC reverse-polarity protection	Yes			
Surge protection	DC Type II / AC Type II			
Integrated AFCI 2.0	Optional			
Protection class / Over voltage category	PV II, battery II, AC III			
General Data				
Dimensions (W × H × D)	530 × 880 × 290 mm			
Weight	73 kg			
Topology	Transformerless			
Self-consumption (night)	< 35 W			
Operating ambient temperature range	-25 ~ +60℃			
Relative humidity	0 - 95%			
Ingress protection	IP66			
Cooling concept	Intelligent fan-cooling			
Max. operation altitude	4000 m			
Grid connection standard	AS/NZS 4777.2:2020			
Safety / EMC standard	IEC 62109-1/-2, IEC 61000-6-2/-4			
Features				
PV connection	MC4 Quick connection plug			
Battery connnection	Terminal connector			
AC connection	Terminal Block			
Display	7.0" LCD display & Bluetooth + APP			
Communication	CAN, RS485, Ethernet, Optional: Wi-Fi, Cellular, LAN			
Country of manufacture	China			

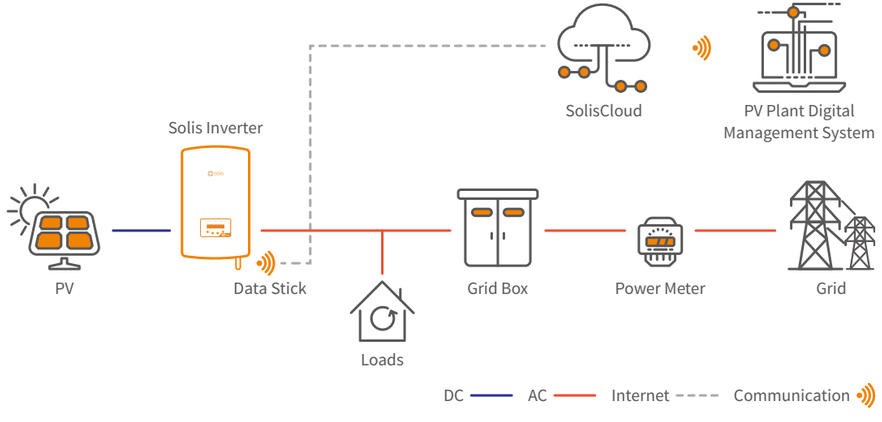
(1) Supporting parallel 140A input.

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:

S5-GR1P(0.7-3)K-M / S5-GR1P(3-6)K
S6-GR1P(3-6)K-S / S5-GR1P(7-10)K
S5-GR3P(5-20)K / S6-GR3P(5-10)K03-NV-ND-AU

Output:

0.7 kW - 20 kW

S5-GR1P(0.7-3)K-M

Solis Single Phase Grid-Tied Inverters

Features:

- Max. efficiency 97.1%
- Max. input current 14A
- Complies with all state network requirements
- Integrate with adjustable Volt-Watt and Volt-Var function
- DRM integrated, fully comply with AS/NZS 4777.2:2020
- Built-in DC-PV2 Switch, comply with AS/NZS 5033 requirements
- Support 24h consumption monitoring with a smart meter
- Super high frequency switching technology
- AFCI protection, proactively reduces fire risk
- Precise MPPT algorithm
- Integrated Export Power Manager (EPM)
- Compact and lightweight
- Voltage active power and reactive power

Models:

S5-GR1P0.7K-M / S5-GR1P1K-M

S5-GR1P1.5K-M / S5-GR1P2K-M

S5-GR1P2.5K-M / S5-GR1P3K-M

• Wi-Fi communication dongle included

DATASHEET

S5-GR1P(0.7-3)K-M

Models	0.7K	1K	1.5K	2K	2.5K	3K
Input DC						
Recommended max. PV power	0.93 kW	1.33 kW	2 kW	2.67 kW	3.33 kW	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					
Max. short circuit current	22 A					
MPPT number / Max. input strings number	1 / 1					
Output AC						
Rated output power	0.7 kW	1 kW	1.5 kW	2 kW	2.5 kW	3 kW
Rated apparent output power	0.7 kVA	1 kVA	1.5 kVA	2 kVA	2.5 kVA	3 kVA
Max. apparent output power	0.7 kVA	1 kVA	1.5 kVA	2 kVA	2.5 kVA	3 kVA
Max. output power	0.7 kW	1 kW	1.5 kW	2 kW	2.5 kW	3 kW
Rated grid voltage	1/N/PE, 230 V					
Rated grid frequency	50 Hz					
Rated grid output current	4.4 A	5.2 A	8.1 A	10.5 A	13.3 A	15.7 A
Max. output current	4.4 A	5.2 A	8.1 A	10.5 A	13.3 A	15.7 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)					
THDi	< 3%					
Efficiency						
Max. efficiency	96.6%		96.6%	97.1%	97.1%	
EU efficiency	95.3%		95.4%	96.4%	96.7%	
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					
Multi peak scan	Yes					
Integrated AFCI	Yes (1)					
Integrated DC switch	Yes (PV2 Switch)					
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	IP65					
Noise emission (typical)	< 20 dB(A)					
Cooling concept	Natural cooling					
Max. operation altitude	2000 m					
Grid connection standard	AS/NZS 4777.2:2020, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530					
Safety / EMC standard	IEC 62109-1/-2, IEC 61000-6-1/-2/-3/-4					
Features						
DC connection	MC4 connector					
AC connection	Quick connection plug					
Display	LCD					
Communication	RS485, Optional: Wi-Fi, GPRS					
Country of manufacture	China					

(1) Activation required.

S5-GR1P(3-6)K

Solis Single Phase Grid-Tied Inverters

Features:

- Max. efficiency 97.7%
- Max. input current 14A
- Complies with all state network requirements
- Integrate with adjustable Volt-Watt and Volt-Var function
- DRM integrated, fully comply with AS/NZS 4777.2:2020
- Built-in DC-PV2 Switch, comply with AS/NZS 5033 requirements
- Support 24h consumption monitoring with a smart meter
- Super high frequency switching technology
- 2 MPPT design with precise MPPT algorithm
- AFCI protection, proactively reduces fire risk
- Integrated Export Power Manager(EPM)
- Compact and lightweight
- Voltage active power and reactive power

Models:

S5-GR1P3K / S5-GR1P3.6K

S5-GR1P4K / S5-GR1P4.6K

S5-GR1P5K / S5-GR1P6K

• Wi-Fi communication dongle included

DATASHEET

S5-GR1P(3-6)K

Models	3K	3.6K	4K	4.6K	5K	6K
Input DC						
Recommended max. PV power	4 kW	4.8 kW	5.3 kW	6.1 kW	6.7 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	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	3 kW	3.6 kW	4 kW	4.6 kW	5 kW	6 kW
Rated apparent output power	3 kVA	3.6 kVA	4 kVA	4.6 kVA	5 kVA	6 kVA
Max. apparent output power	3 kVA	3.6 kVA	4 kVA	4.6 kVA	5 kVA	6 kVA
Max. output power	3 kW	3.6 kW	4 kW	4.6 kW	5 kW	6 kW
Rated grid voltage	1/N/PE, 230 V					
Rated grid frequency	50 Hz					
Rated grid output current	15.7 A	16.0 A	21.0 A	23.8 A	25.0 A	27.3 A
Max. output current	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%		97.6%		97.7%	
EU efficiency	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					
Multi peak scan	Yes					
Integrated AFCI	Yes (1)					
Integrated DC switch	Yes (PV2 Switch)					
General Data						
Dimensions (W × H × D)	310 × 543 × 160 mm					
Weight	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	IP65					
Noise emission (typical)	< 20 dB(A)					
Cooling concept	Natural cooling					
Max. operation altitude	2000 m					
Grid connection standard	AS/NZS 4777.2:2020, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530					
Safety / EMC standard	IEC 62109-1/-2, IEC 61000-6-2/-3					
Features						
DC connection	MC4 connector					
AC connection	Quick connection plug					
Display	LCD					
Communication	RS485, Optional: Wi-Fi, GPRS					
Country of manufacture	China					

(1) Activation required.

S6-GR1P(3-6)K-S

Solis Single Phase Grid-Tied 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
- Support dynamic export control with CT only

Models:

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

S6-GR1P4K-S / S6-GR1P4.6K-S

S6-GR1P5K-S / S6-GR1P6K-S

- Wi-Fi communication dongle included

DATASHEET

S6-GR1P(3-6)K-S

Models	3K	3.6K	4K	4.6K	5K	6K
Input DC						
Recommended max. PV power	4 kW	4.8 kW	5.3 kW	6.1 kW	6.7 kW	8 kW
Max. input voltage	550 V					
Rated voltage	330 V					
Start-up voltage	100 V					
MPPT voltage range	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	3 kW	3.6 kW	4 kW	4.6 kW	5 kW	6 kW
Rated apparent output power	3 kVA	3.6 kVA	4 kVA	4.6 kVA	5 kVA	6 kVA
Max. apparent output power	3 kVA	3.6 kVA	4 kVA	4.6 kVA	5 kVA	6 kVA
Max. output power	3 kW	3.6 kW	4 kW	4.6 kW	5 kW	6 kW
Rated grid voltage	1/N/PE, 230 V					
Rated grid frequency	50 Hz					
Rated grid output current	13.0 A	15.7 A	17.4 A	20.0 A	21.7A	26.1 A
Max. output current	13.0 A	15.7 A	17.4 A	20.0 A	21.7A	26.1 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)					
THDi	< 3%					
Efficiency						
Max. efficiency	97.3%		97.6%		97.7%	
EU efficiency	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					
Multi peak scan	Yes					
Integrated AFCI 2.0	Optional					
Integrated DC switch	Yes (PV2 Switch)					
General Data						
Dimensions (W × H × D)	330 × 371 × 161 mm					
Weight	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					
Noise emission (typical)	< 20 dB(A)					
Cooling concept	Natural cooling			Natural cooling with internal fan		
Max. operation altitude	4000 m					
Grid connection standard	AS/NZS 4777.2:2020, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530					
Safety / EMC standard	IEC 62109-1/-2, IEC 61000-6-2/-3					
Features						
DC connection	MC4 connector					
AC connection	Quick connection plug					
Display	LED digital display & Bluetooth + APP					
Export control interface [1]	Optional: CT, Meter, CT/Meter (2-in-1)					
Communication	RS485, USB, Optional: Wi-Fi, GPRS					
Country of manufacture	China					

(1) CT interface inverter shall only match a CT with 2-pin connector;
Meter interface inverter shall only match a Meter with 2-pin connector;
CT/Meter(2-in-1) interface inverter shall only match a CT or Meter with 4-pin connector.

S5-GR1P(7-10)K

Solis Single Phase Grid-Tied Inverters

Features:

- Max. efficiency 98.0%
- Max. input current 14A
- Complies with all state network requirements
- Integrate with adjustable Volt-Watt and Volt-Var function
- DRM integrated, fully comply with AS/NZS 4777.2:2020
- Built-in DC-PV2 Switch, comply with AS/NZS 5033 requirements
- Support 24h consumption monitoring with a smart meter
- Super high frequency switching technology
- 3 MPPT design with precise MPPT algorithm
- AFCI protection, proactively reduces fire risk
- Integrated Export Power Manager(EPM)
- Compact and lightweight
- Voltage active power and reactive power

Models:

S5-GR1P7K / S5-GR1P8K

S5-GR1P9K / S5-GR1P10K

• Wi-Fi communication dongle included

DATASHEET

S5-GR1P(7-10)K

Models	7K	8K	9K	10K
Input DC				
Recommended max. PV power	9.3 kW	10.6 kW	12 kW	13.3 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
Rated apparent output power	7 kVA	8 kVA	9 kVA	10 kVA
Max. apparent output power	7 kVA	8 kVA	9 kVA	10 kVA
Max. output power	7 kW	8 kW	9 kW	10 kW
Rated grid voltage	1/N/PE, 230 V			
Rated grid frequency	50 Hz			
Rated grid output current	33.7 A	36.6 A	41.3 A	45.9 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			
Multi peak scan	Yes			
Temperature protection	Yes			
Integrated AFCI 2.0	Optional			
Integrated DC switch	Yes (PV2 Switch)			
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			
Noise emission (typical)	< 30 dB(A)			
Cooling concept	Natural cooling	Natural cooling with internal fan		
Max. operation altitude	4000 m			
Grid connection standard	AS/NZS 4777.2:2020, IEC 62116, IEC 61727, IEC 61683			
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			
Country of manufacture	China			

S5-GR3P(5-20)K

Solis Three Phase Grid-Tied 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 condition

Smart

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

Economic

- Compact design with easy maintenance and installation
- > 130% DC/AC ratio
- Support large module with lower installation cost

Models:

S5-GR3P5K-AU / S5-GR3P6K-AU

S5-GR3P8K-AU / S5-GR3P9K-AU

S5-GR3P10K-AU / S5-GR3P12K

S5-GR3P13K / S5-GR3P15K

S5-GR3P17K / S5-GR3P20K

360º View

• Wi-Fi communication dongle included

DATASHEET

S5-GR3P(5-20)K

Models	5K-AU	6K-AU	8K-AU	9K-AU	10K-AU	12K	13K	15K	17K	20K
Input DC										
Recommended max. PV power	6.7 kW	8 kW	10.6 kW	12 kW	13.3 kW	16 kW	17.3 kW	20 kW	22.6 kW	26.6 kW
Max. input voltage	1100 V									
Rated voltage	600 V									
Start-up voltage	180 V									
MPPT voltage range	160 - 1000 V									
Max. input current	32 A / 16 A		32 A / 32 A							
Max. short circuit current	40 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	8 kW	9 kW	10 kW	12 kW	13 kW	15 kW	17 kW	20 kW
Rated apparent output power	5 kVA	6 kVA	8 kVA	9 kVA	10 kVA	12 kVA	13 kVA	15 kVA	17 kVA	20 kVA
Max. apparent output power	5 kVA	6 kVA	8 kVA	9 kVA	10 kVA	12 kVA	13 kVA	15 kVA	17 kVA	20 kVA
Max. output power	5 kW	6 kW	8 kW	9 kW	10 kW	12 kW	13 kW	15 kW	17 kW	20 kW
Rated grid voltage	3/N/PE, 230 V / 400 V									
Rated grid frequency	50 Hz									
Rated grid output current	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
Max. output current	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									
Multi peak scan	Yes									
Integrated AFCI 2.0	Optional									
Integrated DC switch	Yes (PV2 Switch)									
General Data										
Dimensions (W × H × D)	310 × 563 × 219 mm									
Weight	18.9 kg					19.6 kg			20.8 kg	
Topology	Transformerless									
Self-consumption (night)	< 1 W									
Operating ambient temperature range	-25 ~ +60°C									
Relative humidity	0 - 100%									
Ingress protection	IP66									
Noise emission (typical)	< 60 dB(A)									
Cooling concept	Intelligent fan-cooling									
Max. operation altitude	2000 m									
Grid connection standard	AS/NZS 4777.2:2020, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530									
Safety / EMC standard	IEC 62109-1/-2, IEC 61000-6-1/-2/-3/-4									
Features										
DC connection	MC4 connector									
AC connection	Quick connection plug									
Display	LCD									
Communication	RS485, Optional: Wi-Fi, GPRS									
Country of manufacture	China									

S6-GR3P(5-10)K03-NV-ND-AU

Solis Three Phase Grid-Tied Inverters

Features:

- String current up to 20A
- > 150% DC/AC ratio, supports high power modules
- 3 MPPT designs, applies for complex rooftop scenarios
- Supports RS485/ WiFi/GPRS/4G
- Scan to register on SolisCloud, supports remote upgrade and control
- Scrolling information display, making it easier to monitor inverter operation
- AFCI protection, proactively reduces fire risk
- Automatic voltage stabilization technology in weak grid conditions

Models:

S6-GR3P5K03-NV-ND-AU

S6-GR3P6K03-NV-ND-AU

S6-GR3P8K03-NV-ND-AU

S6-GR3P9K03-NV-ND-AU

S6-GR3P9.9K03-NV-ND-AU

S6-GR3P10K03-NV-ND-AU

• Wi-Fi communication dongle included

DATASHEET

S6-GR3P(5-10)K03-NV-ND-AU

Models	5K	6K	8K	9K	9.9K	10K
Input DC						
Recommended max. PV power	6.7 kW	8 kW	10.6 kW	12 kW	13.2 kW	13.3 kW
Max. input voltage	1100 V					
Rated voltage	600 V					
Start-up voltage	160 V					
MPPT voltage range	160 - 1000 V					
Max. input current	20 A / 20 A / 20 A					
Max. short circuit current	25 A / 25 A / 25 A					
MPPT number / Max. input strings number	3 / 3					
Output AC						
Rated output power	5 kW	6 kW	8 kW	9 kW	9.9 kW	10 kW
Rated apparent output power	5 kVA	6 kVA	8kVA	9 kVA	9.9 kVA	10 kVA
Max. apparent output power	5 kVA	6 kVA	8kVA	9 kVA	9.9 kVA	10 kVA
Max. output power	5 kW	6 kW	8 kW	9 kW	9.9 kW	10 kW
Rated grid voltage	3/N/PE, 230 V / 400 V					
Rated grid frequency	50 Hz					
Rated grid output current	7.9 A	9.5 A	12.7 A	14.3 A	15.7 A	15.9 A
Max. output current	7.9 A	9.5 A	12.7 A	14.3 A	15.7 A	15.9 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)					
THDi	< 3%					
Efficiency						
Max. efficiency	98.0%				98.2%	
EU efficiency	97.4%				97.6%	
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					
Multi peak scan	Yes					
Integrated AFCI 2.0	Optional					
Integrated DC switch	Yes (PV2 Switch)					
General Data						
Dimensions (W × H × D)	355 × 410 × 179 mm					
Weight	14.7 kg		15.4 kg			
Topology	Transformerless					
Self-consumption (night)	< 1 W					
Operating ambient temperature range	-25 ~ +60°C					
Relative humidity	0 - 100%					
Ingress protection	IP66					
Noise emission (typical)	< 40 dB(A)					
Cooling concept	Natural cooling					
Max. operation altitude	3000 m					
Grid connection standard	AS/NZS 4777.2:2020, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530					
Safety / EMC standard	IEC 62109-1/-2, IEC 61000-6-1/-2/-3/-4					
Features						
DC connection	MC4 connector					
AC connection	Quick connection plug					
Display	LED digital display & Bluetooth + APP					
Communication	RS485, Optional: Wi-Fi, GPRS					
Country of manufacture	China					

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

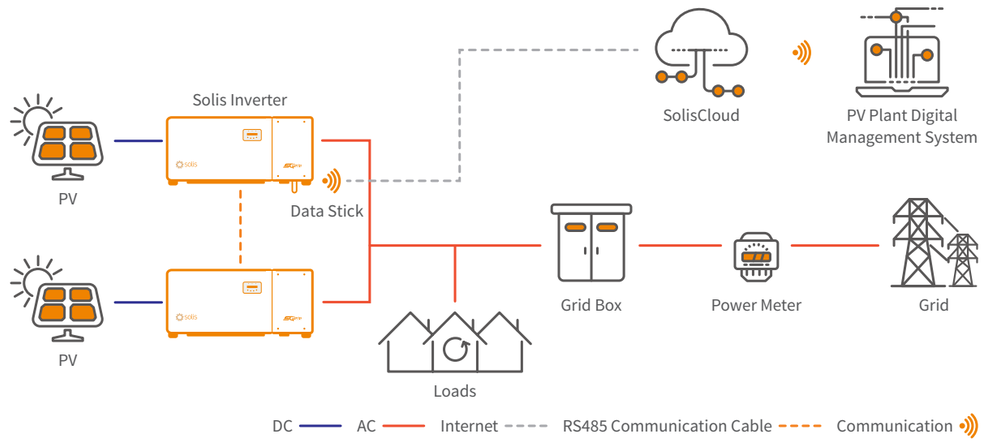
Solis industrial and commercial string inverter product line is rich, the power range covers 25kW - 125kW, no matter how large your design and requirements are, we can rely on our flexible products to provide you with the best industry green power solutions.

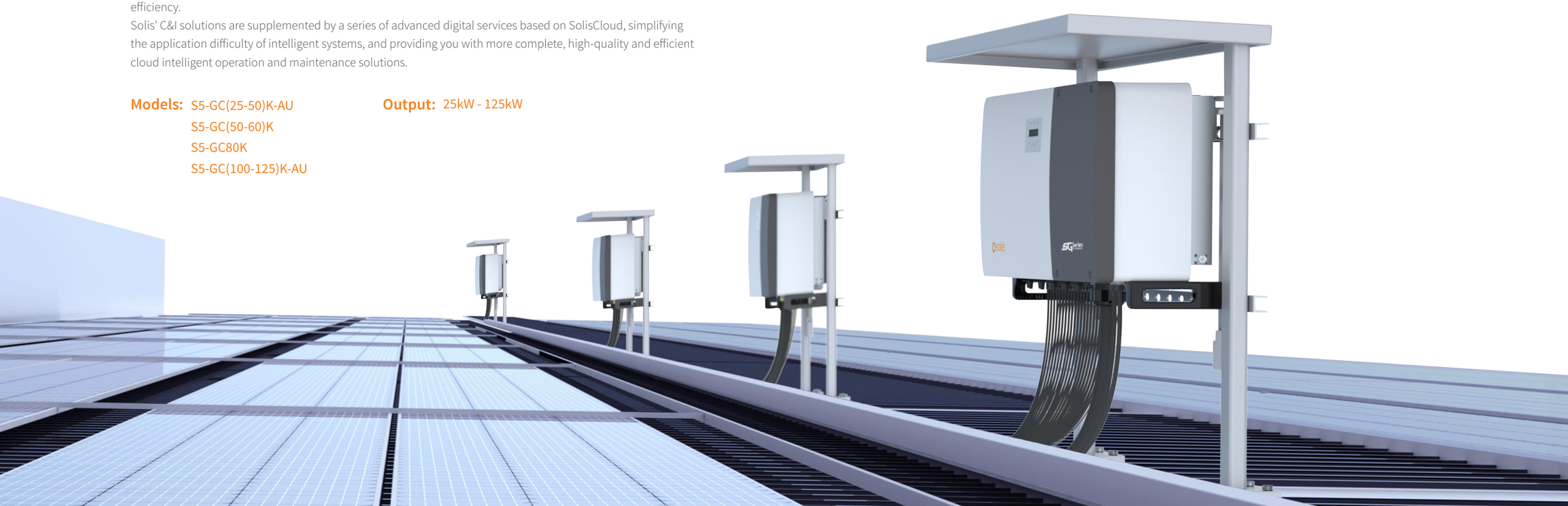
Solis provides the most extensive industrial and commercial string inverter products on the market, and the products are sold well in various countries and regions in the world. They perform well in various harsh and complex environments, and are very stable and reliable.
Solis' C&I products are compatible 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(25-50)K-AU
S5-GC(50-60)K
S5-GC80K
S5-GC(100-125)K-AU

Output: 25kW - 125kW

Commercial & Industrial Solar PV Solution





S5-GC(25-50)K-AU

Solis Three Phase Grid-Tied Inverters

Efficient

- Max. efficiency 98.8%
- String current up to 16A
- 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

- IP65
- AFCI protection, proactively reduces fire risk
- Globally recognised branded componentry for longer life
- Intelligent fan-cooling

Smart

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

Economic

- Supports GPRS/WiFi communication with less wiring and reduced installation costs
- > 130% DC/AC ratio
- Supports high power modules for lower installation costs

Models:

S5-GC25K-AU / S5-GC30K-AU

S5-GC33K-AU / S5-GC36K-AU

S5-GC40K-AU / S5-GC40K-HV-AU

S5-GC50K-HV-AU

360º View

• Wi-Fi communication dongle included

DATASHEET

S5-GC(25-50)K-AU

Models	25K	30K	33K	36K	40K	40K-HV	50K-HV
Input DC							
Recommended max. PV power	33.3 kW	39.9 kW	43.9 kW	47.9 kW	53.2 kW	53.2 kW	66.5 kW
Max. input voltage	1100 V						
Rated voltage	600 V						
Start-up voltage	180 V						
MPPT voltage range	200 - 1000 V						
Max. input current	4 × 32 A						
Max. short circuit current	4 × 40 A						
MPPT number / Max. input strings number	4 / 8						
Output AC							
Rated output power	25 kW	30 kW	33 kW	36 kW	40 kW	40 kW	50 kW
Rated apparent output power	25 kVA	30 kVA	33 kVA	36 kVA	40 kVA	40 kVA	50 kVA
Max. apparent output power	25 kVA	30 kVA	33 kVA	36 kVA	40 kVA	40 kVA	50 kVA
Max. output power	25 kW	30 kW	33 kW	36 kW	40 kW	40 kW	50 kW
Rated grid voltage	3/N/PE, 230 V / 400 V					3/PE, 480 V	
Rated grid frequency	50 Hz						
Rated grid current	36.2 A	43.5 A	47.8 A	52.2 A	58.0 A	48.1 A	60.2 A
Max. output current	36.2 A	43.5 A	47.8 A	52.2 A	58.0 A	48.1 A	60.2 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						
Multi peak scan	Yes						
Integrated AFCI 2.0	Optional						
Integrated PID recovery	Optional						
Integrated DC switch	Yes (PV2 Switch)						
General Data							
Dimensions (W × H × D)	647 × 629 × 252 mm						
Weight	38.2 kg			42.1 kg			
Topology	Transformerless						
Self-consumption (night)	< 1 W						
Operating ambient temperature range	-25 ~ +60°C						
Relative humidity	0 - 100%						
Ingress protection	IP65						
Noise emission (typical)	≤ 60 dB(A)						
Cooling concept	Intelligent fan-cooling						
Max. operation altitude	4000 m						
Grid connection standard	AS/NZS 4777.2:2020, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530						
Safety / EMC standard	IEC 62109-1/-2, IEC 61000-6-1/-2/-3/-4						
Features							
DC connection	MC4 connector						
AC connection	OT terminal						
Display	LCD						
Communication	RS485, Optional: Wi-Fi, GPRS						
Country of manufacture	China						

S5-GC(50-60)K

Solis Three Phase Grid-Tied 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 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

- Wi-Fi communication dongle included

DATASHEET — S5-GC(50-60)K

Models	50K	60K
Input DC		
Recommended max. PV power	66.5 kW	79.8 kW
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
Rated apparent output power	50 kVA	60 kVA
Max. apparent output power	50 kVA	60 kVA
Max. output power	50 kW	60 kW
Rated grid voltage	3/N/PE, 230 V / 400 V	
Rated grid frequency	50 Hz	
Rated grid output current	83.6 A	100.3 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%	
CEC 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	
Multi peak scan	Yes	
Integrated AFCI 2.0	Optional	
Integrated PID recovery	Optional (1)	
Integrated DC switch	Yes (PV2 Switch)	
General Data		
Dimensions (W × H × D)	691 × 578 × 338 mm	
Weight	53.7 kg	
Topology	Transformerless	
Self-consumption (night)	< 1 W	
Operating ambient temperature range	-25 ~ +60°C	
Relative humidity	0 - 100%	
Ingress protection	IP66	
Noise emission (typical)	< 55 dB(A)	
Cooling concept	Intelligent fan-cooling	
Max. operation altitude	4000 m	
Grid connection standard	AS/NZS 4777.2:2020, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530	
Safety / EMC standard	IEC 62109-1/-2, IEC 61000-6-2/-4	
Features		
DC connection	MC4 connector	
AC connection	OT terminal (max. 70 mm^2)	
Display	LCD	
Communication	RS485, USB, Optional: Wi-Fi, GPRS	
Country of manufacture	China	

(1) 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-GC80K

Solis Three Phase Grid-Tied 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
Rated apparent output power	80 kVA
Max. apparent output power	80 kVA
Max. output power	80 kW
Rated grid voltage	3/N/PE, 230 V / 400 V
Rated grid frequency	50 Hz
Rated grid output current	115.5 A
Max. output current	115.5 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 2.0	Optional
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 fan-cooling
Max. operation altitude	4000 m
Grid connection standard	AS/NZS 4777.2, 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
Country of manufacture	China

S5-GC(100-125)K-AU

Solis Three Phase Grid-Tied Inverters

Efficient

- 10 MPPTs, max. efficiency 99.0%
- > 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-AU

S5-GC110K-AU

S5-GC125K-HV-AU

DATASHEET S5-GC(100-125)K-AU

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
Rated apparent output power	100 kVA	110 kVA	125 kVA
Max. apparent output power	100 kVA	110 kVA	125 kVA
Max. output power	100 kW	110 kW	125 kW
Rated grid voltage	3/N/PE, 230 V / 400 V		3/PE, 480 V
Rated grid frequency	50 Hz		
Rated grid output current	144.3 A	158.8 A	150.4 A
Max. output current	144.3 A	158.8 A	150.4 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 2.0	Optional		
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 fan-cooling		
Max. operation altitude	4000 m		
Grid connection standard	AS/NZS 4777.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530		
Safety / EMC standard	IEC 62109-1/-2, IEC 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		
Country of manufacture	China		

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.

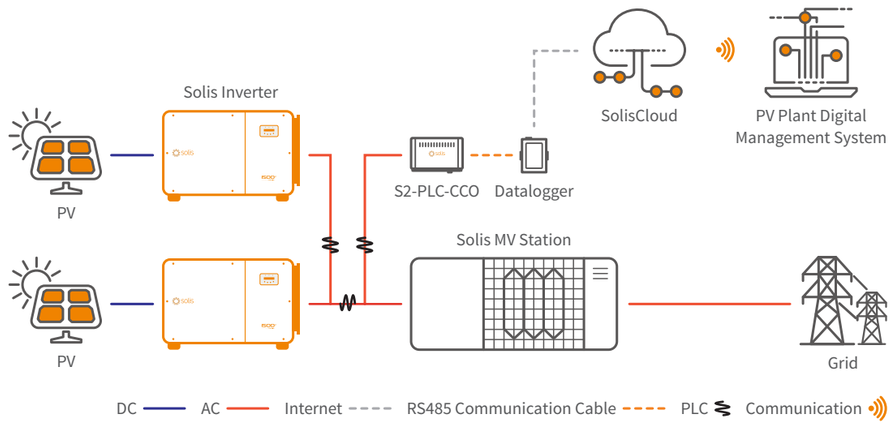
Models:

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 Grid-Tied Inverters

Efficient

- 9/12/14 MPPTs, max. efficiency 99.0%
- > 150% DC/AC ratio
- High power tracking density 55MPPT/MW
- Compatible with 550W+ 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

360° 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 apparent output power	215 kVA	255 kVA	
Rated grid voltage	3/PE, 800 V		
Grid voltage range	640 - 920 V		
Rated grid frequency	50 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 fan-cooling		
Max. operation altitude	4000 m		
Grid connection standard	AS/NZS 4777.2:2020, 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. 300 mm^2)		
Display	LCD		
Communication	RS485, Optional: PLC		
Country of manufacture	China		

Utility-scale Plant Case Study

Mexico
20MW Solis-20K-HV

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

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

India
2MW Solis-(100-110)K

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

Tidal-Flat 300MW Utility Scale Solar PV Plant

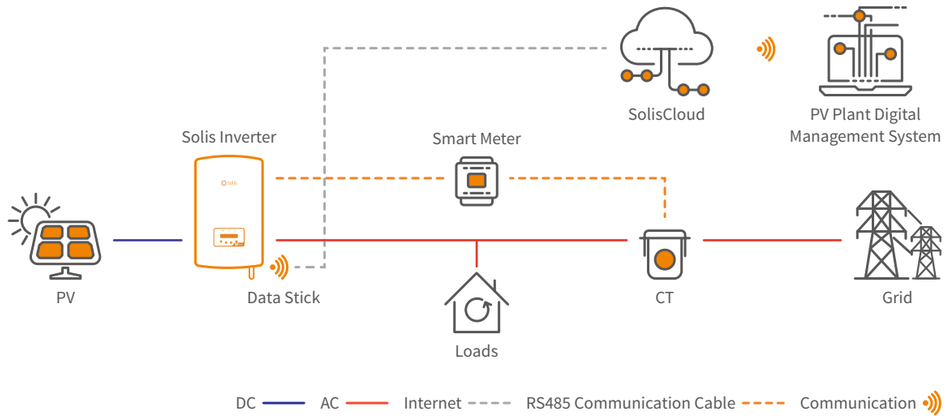
After the project is put into operation, the generating capacity is estimated to be 400,000,000 kWh/ year and delivers a reduction of 350, 000 tons of CO_2, 12,000 tons of SO_2, and 110,000 tons of Carbon dust. Solis commercial scale string inverters boast an abundance of technological features which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

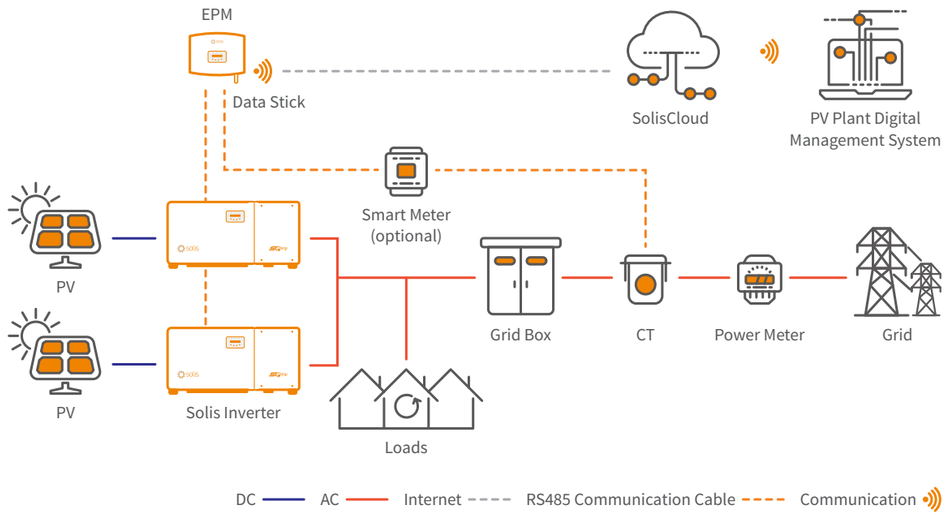
Export Power Management Solutions - Single-inverter System

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

Solis Export Power Manager

Smart & strong

- Simultaneous control of 20 X Solis inverters

Saving & high precision

- Simultaneously monitor the operating data of the 20 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

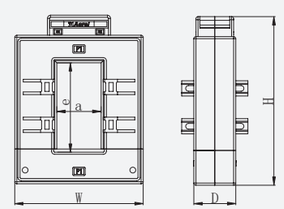
Solis-EPM3-5G-PRO

360º View

DATASHEET — Solis-EPM-5G

Models	Solis-EPM1-5G	Solis-EPM3-5G-PRO
Input AC		
Rated voltage	1/N/PE, 230 V	1/N/PE, 230 V; 3/(N)/PE, 400 V; 3/PE, 480 V
Input voltage range	100 ~ 300 V (L-N)	100 ~ 300 V (L-N); 175 ~ 519 V (L-L)
Input frequency range	45 ~ 65 Hz	
Communication		
Inverter communication	Modbus	
Communication with inverter	RS485 (Wired)	
Max. communication inverter numbers	20	20 (Recommended)
Monitoring	WiFi / 4G / LAN Stick (Optional)	WiFi / 4G / LAN Stick (Optional)
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	< 6 W
Dimensions (W × H × D)	364 × 276 × 114 mm	364 × 276 × 114 mm
Weight	2.1 kg (without CT, Meter)	2.1 kg (without CT, Meter)
AC connection	Quick connection terminal	
Display	LCD	
Smart meter	No	Split phase: AGF-AE-D Three phase: ADL3000-E-B
CT connection	Plug terminal	
CT specification	Single phase: Standard (100 / 5 A or 300 / 5 A)	Split phase: Standard (200 / 40 mA) Three phase: Optional (Secondary current is 5 A)
Power control accuracy	1%Pn	
Features		
Failsafe function	Yes	
Remote upgrade	Yes	

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

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-WIFI-ST

S3-WIFI-ST

S4-WiFi-ST

S4-WiFi-ST

S5-WiFi-ST

S5-WiFi-ST-4Pin

S5-WiFi-ST-USB

S1-W4G-ST

S1-W4G-ST (4 Pin)

S1-W4G-ST (USB)

S2-RF-LINK

S2-RF-ST-4Pin

S2-RF-ST-USB

S2-RF-Gateway

S2-PLC-CCO

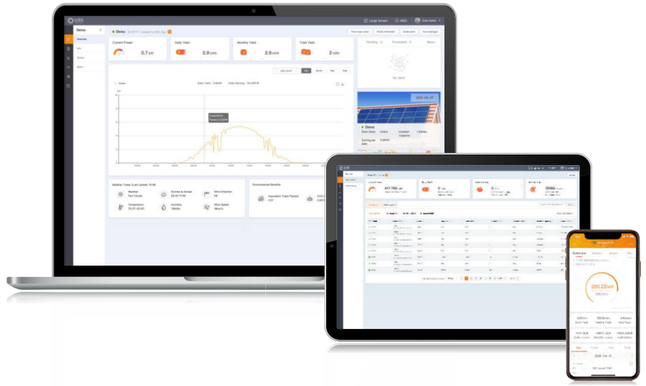
S2-PLC-CCO

SolisCloud

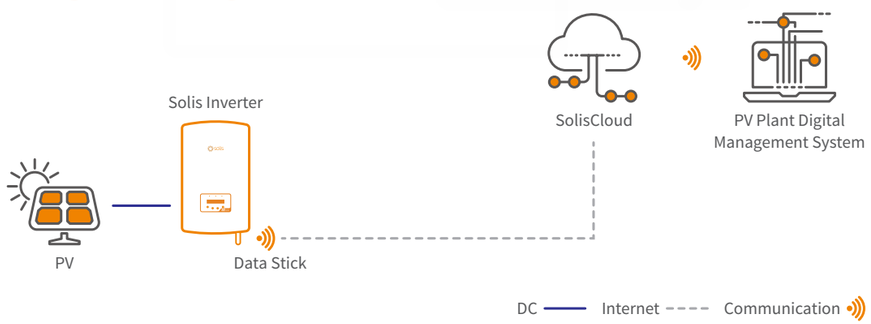
New generation Solis PV monitoring platform

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

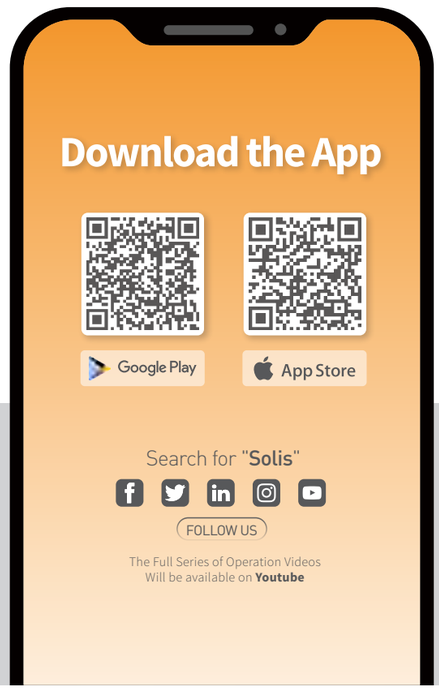
- Manage multiple types of systems across residential, commercial and utility scale plants. Enables multiple team management across different sectors

Multiple Plant Management

- 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
S1-W4G-ST
S3-WIFI-ST
S2-RF-LINK
S4-WiFi-ST
S2-PLC-CCO
S5-WiFi-ST



S2-WL-ST

Solis Data Loggers

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.

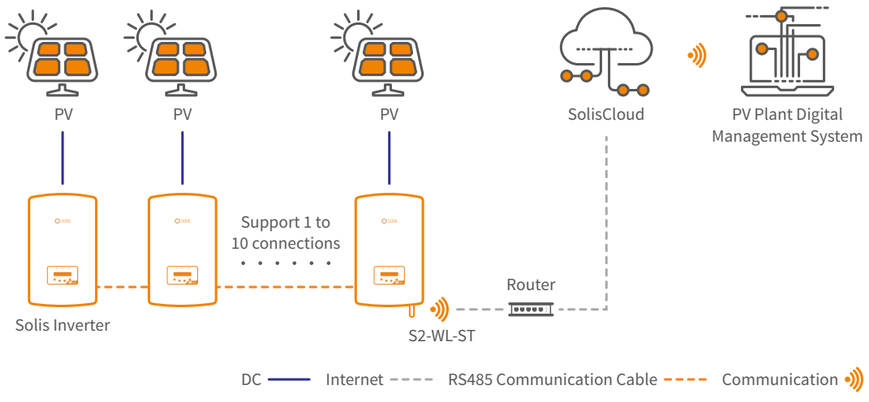
Features:

- 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	3 LED Indicator Lights	
Communication interface	External 4-Pin Port	External USB Port
Ethernet communication	Number of routes × 1, 10 / 100 Mbps adaptive, communication distance ≤ 100 m	
Wireless communication	802.11b/g/n (2.4G) (2)	
Near end communication	BLE4.2	
Configuration method	APP / WEB	
Electrical		
Operating voltage	DC 5 V (+ / -5%)	
Operating power consumption	≤ 2 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)	145 × 50 × 41 mm	130 × 50 × 41 mm
Installation method	Externally Insert + Twist Lock	Externally Insert + Tab Lock
Weight	100 g	90 g
Others		
Certification	CE, FCC	

(1) Inverters must first be hand-in-hand connected by RS485. (2) 5 GHz Wi-Fi networks are not supported.

S3-WIFI-ST

Solis Data Loggers

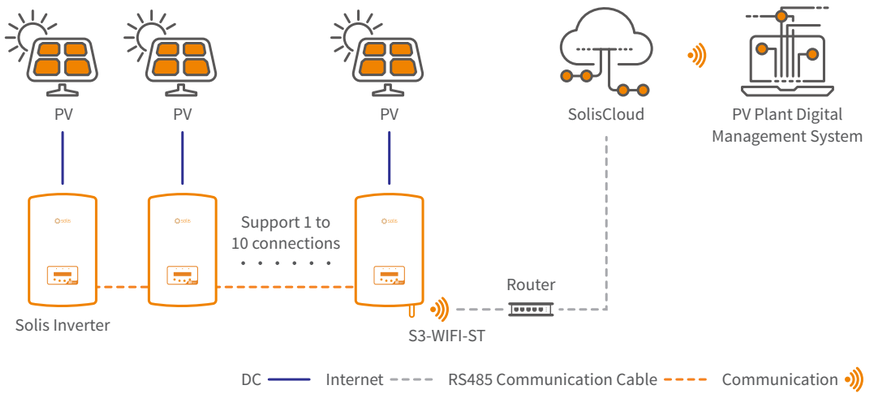
Use RS485 communication method to connect the inverter, and data connection through wireless WiFi network, which can realize remote control and monitoring. The network transmits intuitive data, which is convenient for customers to monitor at any time and place.

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-WIFI-ST

Intelligent Monitoring Solution - S3-WIFI-ST



DATASHEET — S3-WIFI-ST

Models	S3-WIFI-ST
Communication	
Supported device type	Solis inverter
Number of connected inverters (1)	≤ 10
Data collection intervals	5 minutes
Status indicator	3 LED Indicator Lights
Communication interface	External 4-Pin Port
Wireless communication	802.11b/g/n (2.4G) (2)
Configuration method	APP / WEB
Electrical	
Operating voltage	DC 5 V (+ / -5%)
Operating power consumption	≤ 2 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 × 44 × 44 mm
Installation method	Externally Insert + Twist Lock
Weight	85 g
Others	
Certification	CE, FCC

(1) Inverters must first be hand-in-hand connected by RS485. (2) 5 GHz Wi-Fi networks are not supported.

S4-WiFi-ST

Solis Data Loggers

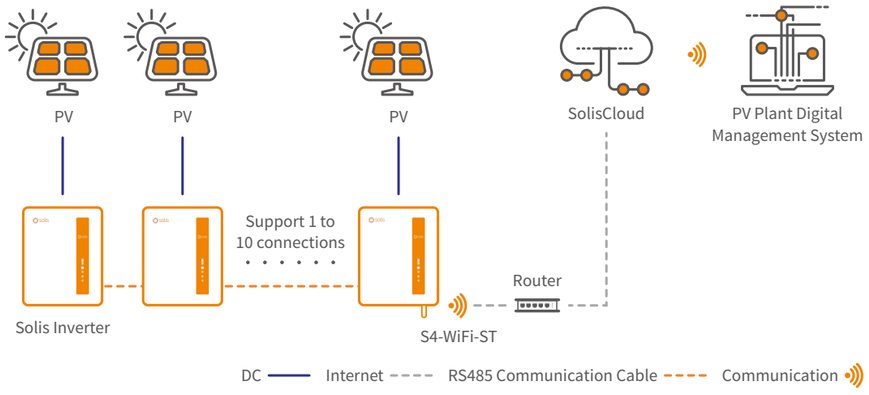
Use RS485 communication method to connect the inverters, up to 10 inverters can be connected at the same time. Data communication with the monitoring system through wireless WiFi network, which can realize remote control and monitoring. The network transmits intuitive data, which is convenient for customers 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	3 LED Indicator Lights
Communication interface	External USB Port
Wireless communication	802.11b/g/n (2.4G) (2)
Configuration method	APP / WEB
Electrical	
Operating voltage	DC 5 V (+ / -5%)
Operating power consumption	≤ 2 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)	113 × 50 × 34 mm
Installation method	Externally Insert + Tab Lock
Weight	65 g
Others	
Certification	CE, FCC

(1) Inverters must first be hand-in-hand connected by RS485. (2) 5 GHz Wi-Fi networks are not supported.

S5-WiFi-ST

Solis Data Loggers

Up to 10 inverters can be connected to 1 data logger. The logger connects with the local Wi-Fi network and transmits data wirelessly to SolisCloud. SolisCloud, the Solis monitoring platform, allows for remote system monitoring and control. The data is clear and detailed, making it easy to monitor and troubleshoot from anywhere anytime.

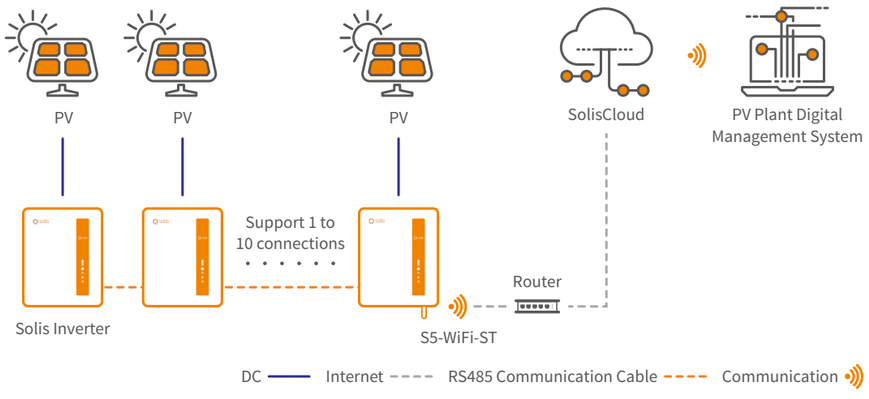
Features:

- Send alarm notifications through text and email
- Intuitive LED indicator lights display the operating status
- Simple plug-and play installation makes commissioning quick and easy
- One button for instant data transmission and device configuration
- Support dual-band router with 5GHz and 2.4GHz
- Support Bluetooth nearby connection and debugging

S5-WiFi-ST-4Pin

S5-WiFi-ST-USB

Intelligent Monitoring Solution - S5-WiFi-ST



DATASHEET — S5-WiFi-ST

Models	S5-WiFi-ST-4Pin	S5-WiFi-ST-USB
Communication		
Supported device type	Solis inverter	
Number of connected inverters (1)	≤ 10	
Data collection intervals	5 minutes	
Status indicator	3 LED Indicator Lights	
Communication interface	External 4-Pin Port	External USB Port
Wireless communication	802.11b/g/n (2.4G) 802.11a/n (5G)	
Near end communication	BLE5.0	
Configuration method	APP / WEB	
Electrical		
Operating voltage	DC 5 V (+ / -5%)	
Operating power consumption	≤ 2 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	113 × 50 × 34 mm
Installation method	Externally Insert + Twist Lock	Externally Insert + Tab Lock
Weight	80 g	65 g
Others		
Certification	CE, FCC	

(1) Inverters must first be hand-in-hand connected by RS485.

S1-W4G-ST

Solis Data Loggers

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.

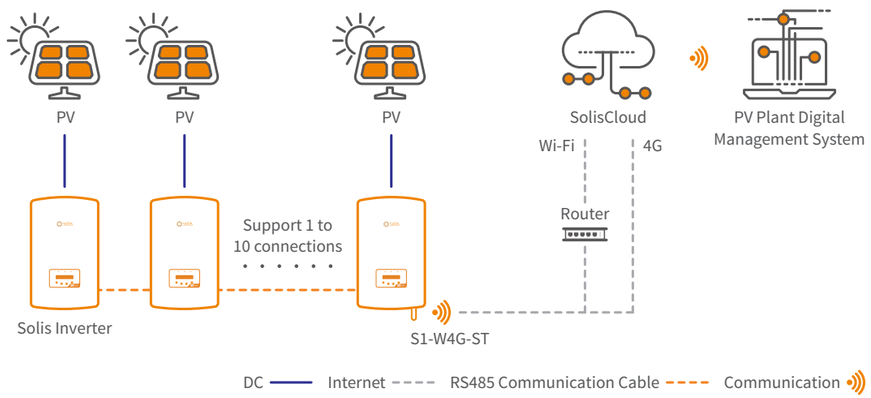
Features:

- 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	3 LED Indicator Lights	
Communication interface	External 4-Pin Port	External USB Port
Wireless communication	WiFi: 802.11b/g/n (2.4G) (2) GSM / GPRS: 850 / 900 / 1800 / 1900 MHz	
Near end communication	BLE4.2	
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	113 × 50 × 34 mm
Installation method	Externally Insert + Twist Lock	Externally Insert + Tab Lock
Weight	80 g	65 g
Others		
Certification	CE, FCC	

(1) Inverters must first be hand-in-hand connected by RS485. (2) 5 GHz Wi-Fi networks are not supported.

S2-RF-LINK

Solis Data Loggers

Up to 10 inverters can be connected to S2-RF-LINK. Insert the data logger directly into the inverter port , the gateway uses wired ethernet to connect to the home router, and transmits data to SolisCloud. SolisCloud, the Solis monitoring platform, allows for remote system monitoring and control. The data is clear and detailed, making it easy to monitor and troubleshoot from anywhere anytime.

Features:

- Fault alarm, real-time monitoring
- RESET button, one key to send data, convenient debugging
- Support Bluetooth nearby connection and debugging
- Status indicator, easy to display working status
- One-key assignment of inverter address, efficient and labor-saving
- RF communication is more stable and has a wider range

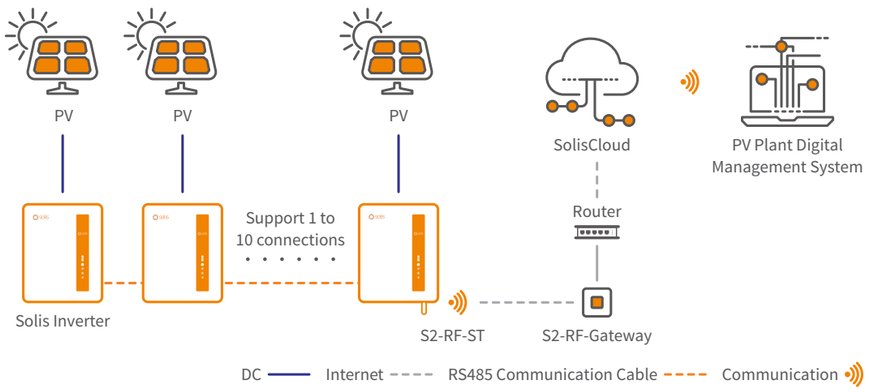
S2-RF-ST-4Pin

S2-RF-Gateway

S2-RF-ST-USB

S2-RF-Gateway

Intelligent Monitoring Solution - S2-RF-LINK



DATASHEET — S2-RF-LINK

Models	S2-RF-ST		S2-RF-Gateway
Communication			
Supported device type	Solis inverter		
Number of connected inverters (1)	≤ 10		
Data collection intervals	5 minutes		
Status indicator	3 LED Indicator Lights		
Communication interface	External 4-Pin Port	External USB Port	/
Ethernet communication	RS485		Adaptive 10 / 100 Mbps
Wireless communication	915 MHz / 868 MHz		/
Near end communication	BLE4.2		
Configuration method	APP/WEB		
Effective communication distance	200 (in free-field conditions)		
Electrical			
Operating voltage	DC 5 V (+ / -5%)		
Operating power consumption	≤ 5 W		
Environment			
Operating ambient temperature range	-25 ~ +65°C		
Operating humidity	5% - 95%, relative humidity, Non-condensing		
Storage temperature	-45 ~ +90°C		
Storage humidity	< 40%		
Max. operation altitude	4000 m		
Protection degree	IP65		IP21
Mechanical			
Dimensions (L × W × H)	128 × 50 × 34 mm (4Pin)	115 × 50 × 34 mm (USB)	90 × 90 × 23 mm
Installation method	Externally Insert + Twist Lock (4Pin)	Externally Insert + Tab Lock (USB)	/
Weight	70 g (4Pin)	55 g (USB)	85 g
Others			
Certification	CE, RoHs, Reach		

(1) Inverters must first be hand-in-hand connected by RS485.

S2-PLC-CCO

Solis PLC Central Controller

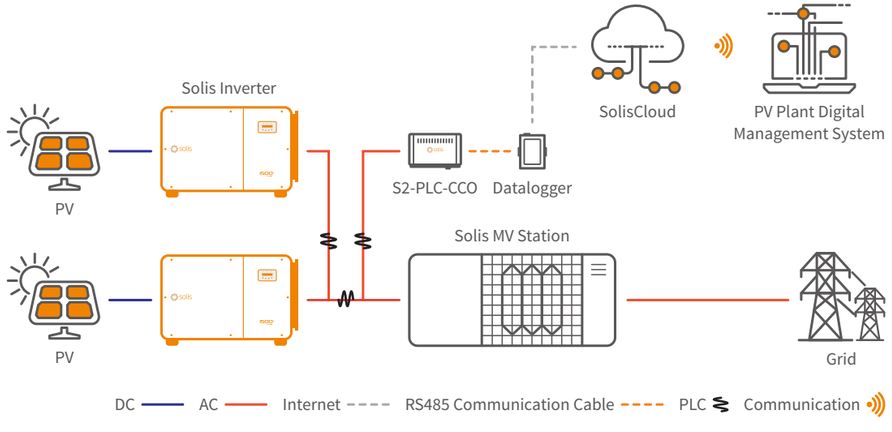
S2-PLC-CCO (CCO: Central Controller) is applied in PV systems to achieve power line communication. Power Line Communication is transmission of data over the AC Wires of the system.

Features:

- No need to lay communication cables, reducing construction costs and maintenance costs
- Strong anti-interference ability
- Support multi-terminal networking
- Stable network connection, real-time data transmission

S2-PLC-CCO

Intelligent Monitoring Solution - S2-PLC-CCO



DATASHEET

S2-PLC-CCO

Models	S2-PLC-CCO
Communication	
Supported device type	Solis inverter
Number of connected inverters	≤ 80
Status indicator	4 LED Indicator Lights
Frequency band	2 - 12 MHz
Communication interface	4pin / RJ45 / RS485
Debugging interface	Bluetooth
Baud rate	9600 / 19200 / 57600 / 115200
Electrical	
Input voltage (Power adapter)	12 VDC
Max. input current (Power adapter)	2 A
AC port input line voltage	50 - 920 V, 50 Hz
Operating power consumption	< 5 W
Environment	
Operating ambient temperature range	-40 ~ +70°C
Operating humidity	5% - 95% relative humidity, non-condensing
Storage temperature	-45 ~ +90°C
Storage humidity	5% - 95% relative humidity, non-condensing
Max. operation altitude	4000 m
Protection degree	IP 20
Mechanical	
Dimensions (L × W × H)	255 × 165 × 45 mm
Installation method	Hanging ear mounting, rail mounting
Weight	750 g

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