



AUSTRALIA

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

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.



## NO.1

Global leader in single phase string inverters

## TOP3

The World's 3rd largest PV inverter manufacturer

## 10 years

EUPD Research Top Brand PV Inverters 2016-2025

## 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

## 2025

Ranks among the top PV brands by EUPD research for 10 consecutive years (2016-2025)

20<sup>th</sup>  
ANNIVERSARY



锦浪科技股份有限公司  
GINLONG TECHNOLOGIES CO., LTD.





# 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, Czechia, 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.

HQ

Service Centers



# GLOBAL REACH LOCAL EXPERTISE



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### Residential Energy Storage Solutions

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

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### 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.

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### Residential Solar PV Solutions

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

## P43

### Commercial & Industrial Solar PV Solutions

Solis' C&I string inverter product line is broad with a power range cover 25kW - 125kW, providing you with the best industry green power solutions.

## P55

### Utility Scale Solar PV Solutions

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

## P65

### 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

## P61

### 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.

management platform. Real-time monitoring, visualized management and remote O & M of residential, C&I and utility scale solar PV plants.



# 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:

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



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



360° View



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 <sup>(1)</sup>		
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	AS 4777				
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

Smart Energy Management

- AI intelligently manages charging and discharging based on TOU (Time-of-Use) tariffs
- Seamless integration with VPP and EMS platforms for enhanced energy optimization

Flexible & Scalable

- Compatible with mainstream lithium and lead-acid batteries
- Easily expand system capacity using parallel connections and AC coupling

High Performance

- 200% PV input capacity to maximize solar energy utilization
- Switching time < 4ms

Simple & Fast Configuration

- Bluetooth app support for quick and easy setup

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. 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	Yes <sup>(1)</sup>				
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°C				
Ingress protection	IP66				
Noise emission (typical)	< 65 dB(A)				
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				

(1) Activation required.



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

Solis Three Phase High Voltage Energy Storage Inverters

Smart Energy Management

- AI intelligently manages charging and discharging based on TOU (Time-of-Use) tariffs
- Seamless integration with VPP and EMS platforms for enhanced energy optimization

Flexible & Scalable

- Compatible with mainstream lithium batteries
- Easily expand system capacity using parallel connections and AC coupling

High Performance

- Supports three-phase unbalanced output, allowing up to 50% of rated inverter power per phase <sup>(1)</sup>
- 200% PV input capacity to maximize solar energy utilization
- Switching time < 10ms

Simple & Fast Configuration

- Bluetooth app support for quick and easy setup

Models:

S6-EH3P5K-H-AU / S6-EH3P6K-H-AU

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



360° View



DATASHEET

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

Models	5K	6K	8K	10K
Input DC (PV side)				
Recommended max. PV array size	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 / 10.9 A	13.6 A / 13.0 A	18.2 A / 17.4 A	22.7 A / 21.7 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	AS 4777.2:2020			
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 indicator & Bluetooth + APP			
Communication	CAN, RS485, Optional: Wi-Fi, Cellular, LAN			
Country of manufacture	China			

(1) For single system.



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 control
- 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			

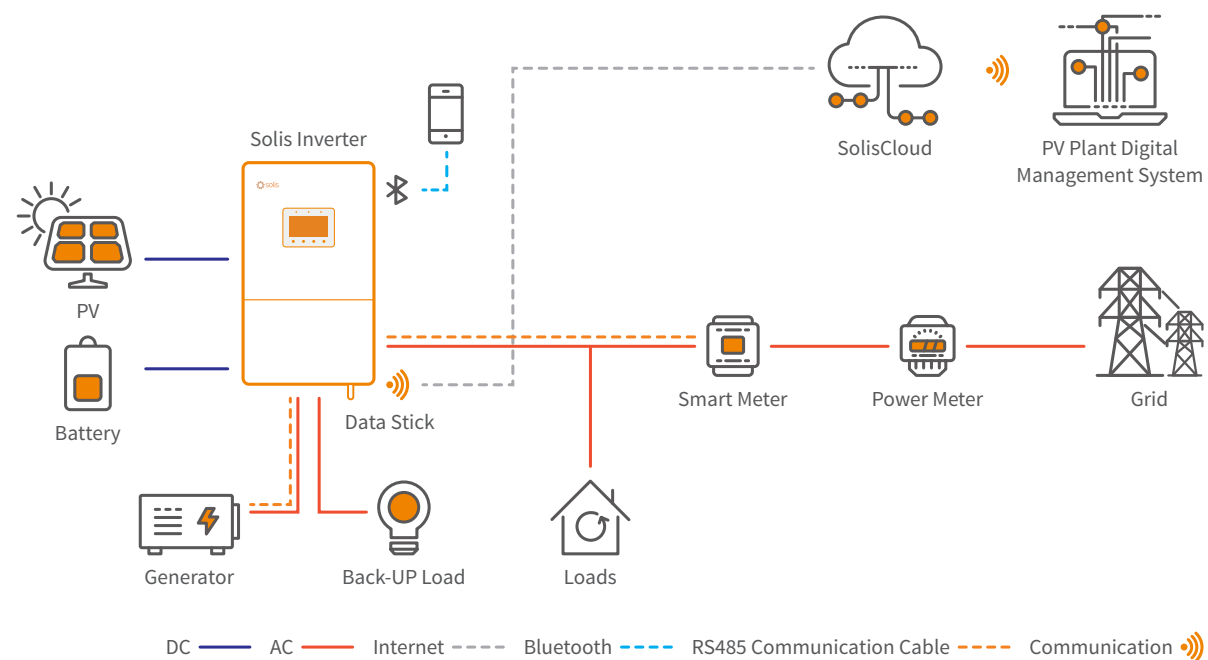


# Commercial Energy Storage Solutions

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

Smart Energy Management

- AI intelligently manages charging and discharging based on TOU (Time-of-Use) tariffs
- Adapt to third party VPP platform, frequency service provider

Flexible & Scalable

- Compatible with mainstream lithium batteries
- Support Solis C&I battery solution
- Easily expand system capacity using parallel connections and AC coupling

High Performance

- Supports 100% three-phase unbalanced output
- 200% PV input capacity to maximize solar energy utilization
- Max. 160% overload capability in off-grid mode
- Charging and discharging currents up to 140A
- Switching time < 10ms

Simple & Fast Configuration

- 7-inch LCD screen for an intuitive user experience
- Bluetooth app support for quick and easy setup

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)				
Max. usable PV input power	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 <sup>(1)</sup>	
Number of battery ports			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 frequency 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°C		
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 connection		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		

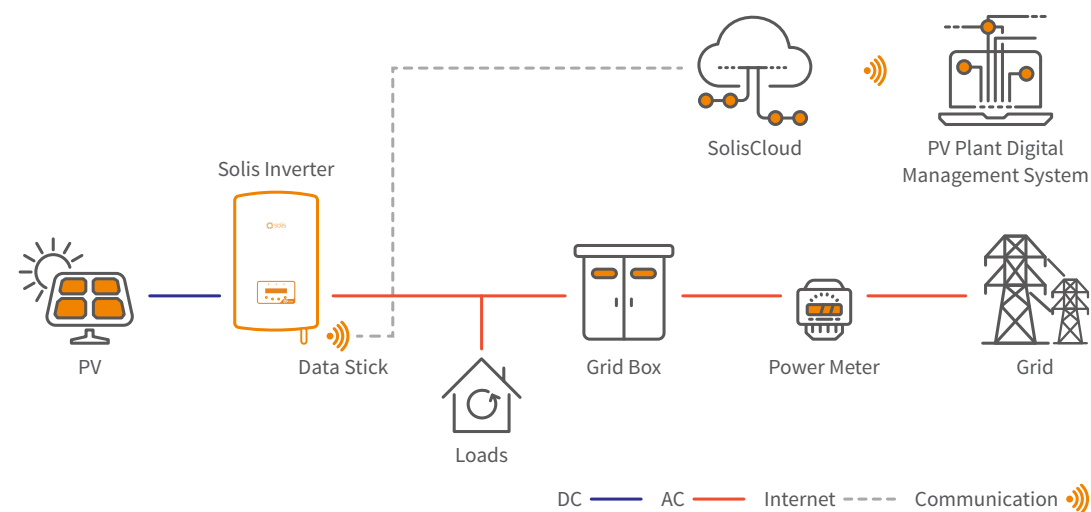
(1) Supporting parallel 140A input.

# 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  
 S6-GR1P(5-10)K03-NV-ND-AU  
 S6-GR3P(5-10)K03-NV-ND-AU  
 S5-GR3P(12-20)K

### Output:

0.7 kW - 20 kW



S5-GR1P(0.7-3)K-M

Solis Single Phase Grid-Tied Inverters

Features:

- Max. efficiency 97.1%
- Wide voltage range and low startup voltage
- Supports export power control
- AFCI protection, proactively reduces fire risk
- 24-hour load consumption monitoring
- DRM integrated, fully comply with AS/NZS 4777.2:2020
- Built-in DC-PV2 Switch, comply with AS/NZS 5033 requirements
- Integrated CT and Meter interface

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 <sup>(1)</sup>		
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%
- Wide voltage range and low startup voltage
- Supports export power control
- AFCI protection, proactively reduces fire risk
- 24-hour load consumption monitoring
- DRM integrated, fully comply with AS/NZS 4777.2:2020
- Built-in DC-PV2 Switch, comply with AS/NZS 5033 requirements

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 <sup>(1)</sup>					
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
- AFCI protection, proactively reduces fire risk
- Compact design for easy installation
- 24-hour load consumption monitoring
- Support dynamic export control with CT only
- Integrated CT and Meter interface

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 <sup>(1)</sup>	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%
- Wide voltage range and low startup voltage
- 3 MPPT design, suitable for multi-facing roof
- AFCI protection, proactively reduces fire risk
- 24-hour load consumption monitoring
- DRM integrated, fully comply with AS/NZS 4777.2:2020
- Built-in DC-PV2 Switch, comply with AS/NZS 5033 requirements

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			





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

Solis Three Phase Grid-Tied Inverters

Features:

- String current up to 20A
- > 150% DC/AC ratio
- 3 MPPT design, suitable for multi-facing roof
- Supports export power control
- AFCI protection, proactively reduces fire risk
- 24-hour load consumption monitoring
- Dual independent RS485 ports, supporting communication with multiple devices

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					



S5-GR3P(12-20)K

Solis Three Phase Grid-Tied Inverters

Features:

- Max. efficiency 98.7%
- > 150% DC/AC ratio
- Supports export power control
- AFCI protection, proactively reduces fire risk
- 24-hour load consumption monitoring
- IP66

Models:

S5-GR3P12K / S5-GR3P13K  
S5-GR3P15K / S5-GR3P17K  
S5-GR3P20K



• Wi-Fi communication dongle included

DATASHEET

S5-GR3P(12-20)K

Models	12K	13K	15K	17K	20K
Input DC					
Recommended max. PV power	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 / 32 A				
Max. short circuit current	40 A / 40 A				
MPPT number / Max. input strings number	2 / 4				
Output AC					
Rated output power	12 kW	13 kW	15 kW	17 kW	20 kW
Rated apparent output power	12 kVA	13 kVA	15 kVA	17 kVA	20 kVA
Max. apparent output power	12 kVA	13 kVA	15 kVA	17 kVA	20 kVA
Max. output power	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	19.1 A	20.7 A	23.8 A	27 A	31.8 A
Max. output current	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	98.6%			98.7%	
EU efficiency	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	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				



# Residential Power Plant Case Study

## Microgrid Project in Hebei Province

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

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

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



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



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



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



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



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





# Commercial & Industrial Solar PV Solutions

Solis industrial and commercial string inverter product line is rich, the power range covers 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.

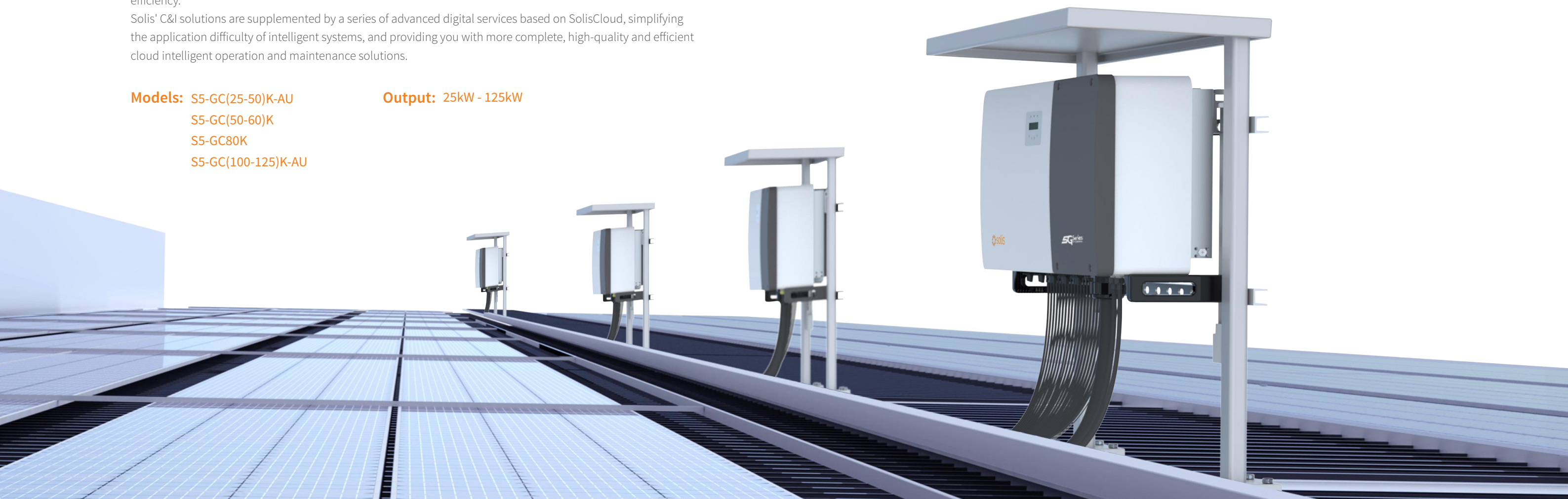
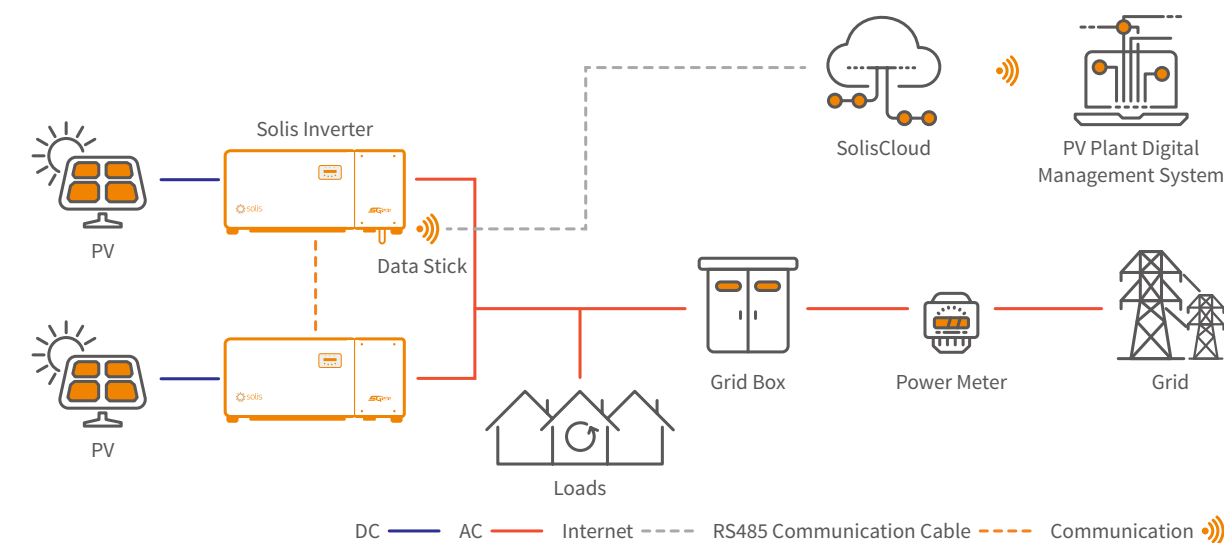
The power range of Solis' C&I products covers a wide range, with a single power up to 125kW. High-efficiency and high-power-density inverters can reduce installation and maintenance workloads and improve overall cost efficiency.

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(50-60)K

Solis Three Phase Grid-Tied Inverters

Features:

- 5/6 MPPT, max. efficiency 98.7%
- Nighttime PID recovery function (optional)
- AFCI protection, proactively reduces fire risk
- Intelligent string monitoring, smart I-V curve scan
- 24-hour load consumption monitoring
- IP66, C5 Anti-Corrosion level
- Night SVG function

Models:

S5-GC50K  
S5-GC60K



• 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 <sup>(1)</sup>	
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 mm²)	
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

Smart

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

Safe

- IP66
- Nighttime PID recovery function (optional)
- AFCI protection, proactively reduces fire risk

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 mm²)
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

Smart

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

Safe

- IP66
- AFCI protection, proactively reduces fire risk
- Nighttime PID recovery function (optional)
- Overvoltage load reduction and leakage current suppression technology, low failure rate

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 mm²)		
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 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.

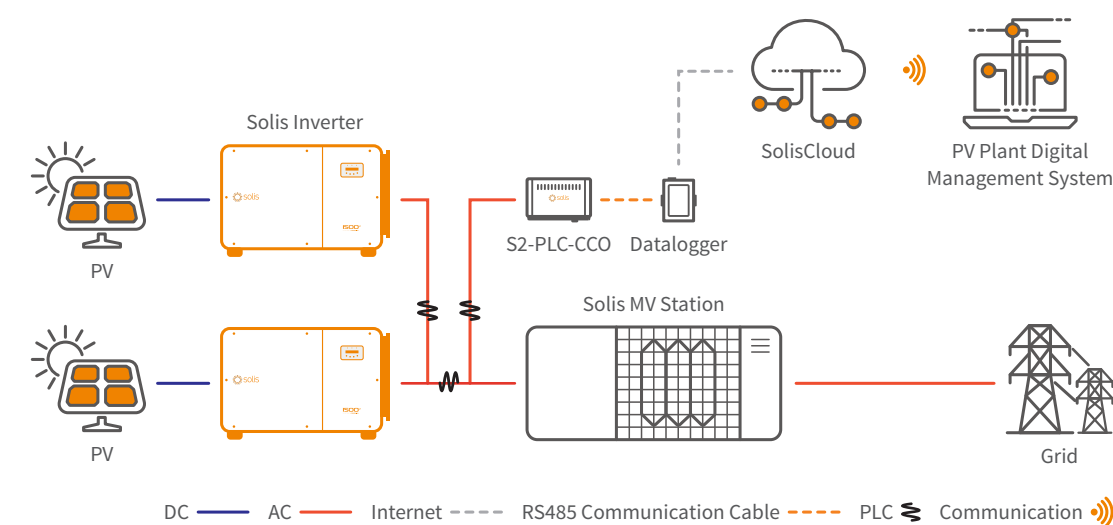
## Models:

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

Smart

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

Safe

- IP66
- Nighttime PID recovery function
- Fuse free design, safe and maintenance free
- Globally recognised branded componentry for longer life

Economic

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

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 mm²)			
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<sub>2</sub>, 12,000 tons of SO<sub>2</sub>, 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.

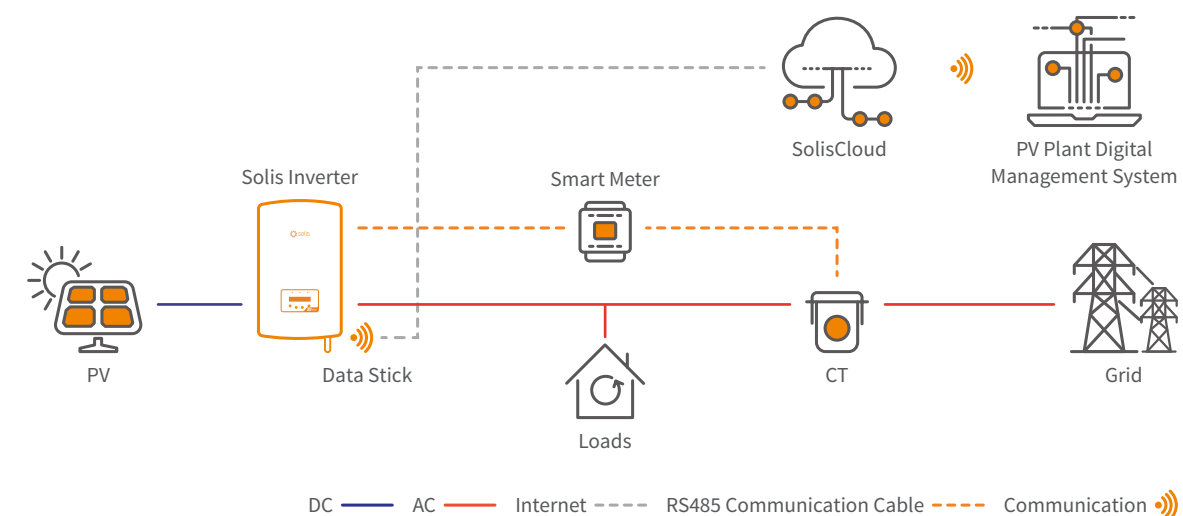


# Export Power Management Solutions

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.

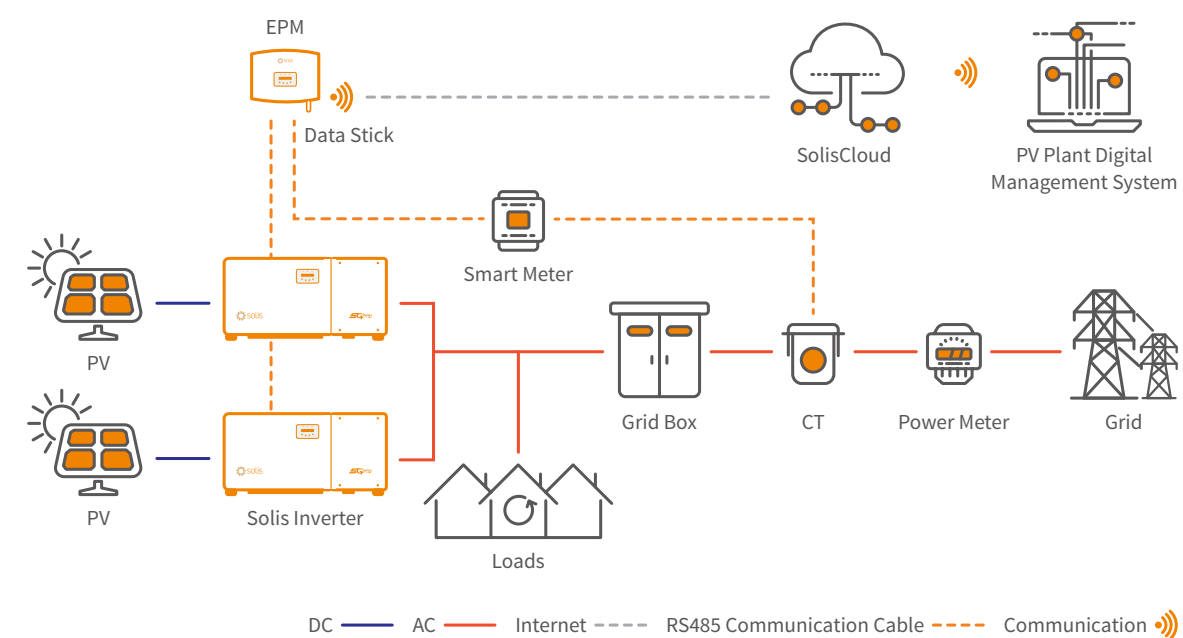
## Export Power Management Solutions - Single-inverter System

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:

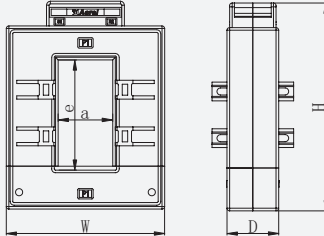
Solis-EPM1-5G

Solis-EPM3-5G-PRO



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)						
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						
Dimensions (W × H × D)	364 × 276 × 114 mm						
Weight	2.7 kg (without CT, Meter)						
AC connection	Quick connection terminal						
Display	LCD						
Smart meter	No		Split phase: AGF-AE-D <sup>(1)</sup> Three phase: ADL3000-E-B <sup>(2)</sup>				
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 <sup>(2)</sup>							
	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) For AGF-AE-D, 2 CTs(200/40mA) will be provided by default.

(2) For ADL3000-E-B, CTs should be ordered separately.

(3) Inverters may need a communication adapter to connect the EPM, please consult a sales representative before placing an order.



# 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

S3-Logger



S3-Logger

S2-PLC-CCO



S2-PLC-CCO

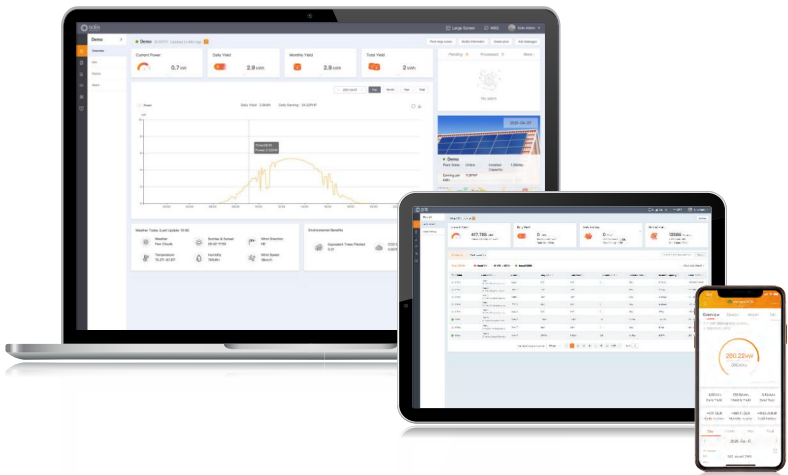


SolisCloud

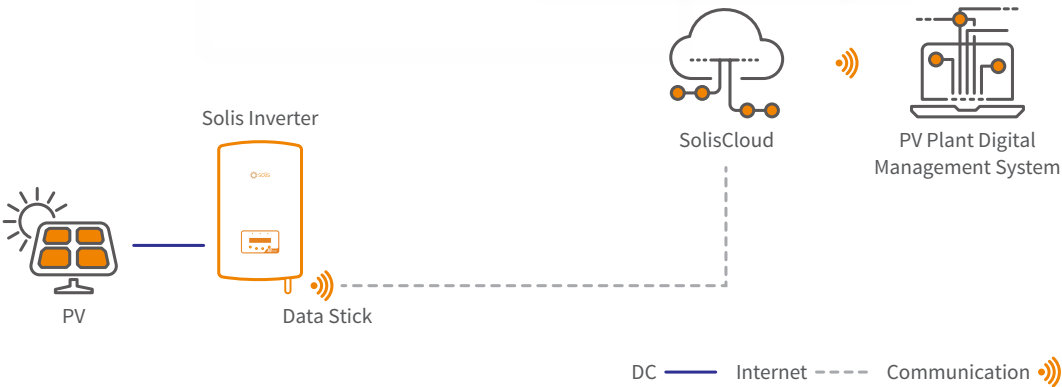
New generation Solis PV monitoring platform

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

Download the App



Accessories available:

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

Search for "Solis"



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The Full Series of Operation Videos  
Will be available on **Youtube**

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

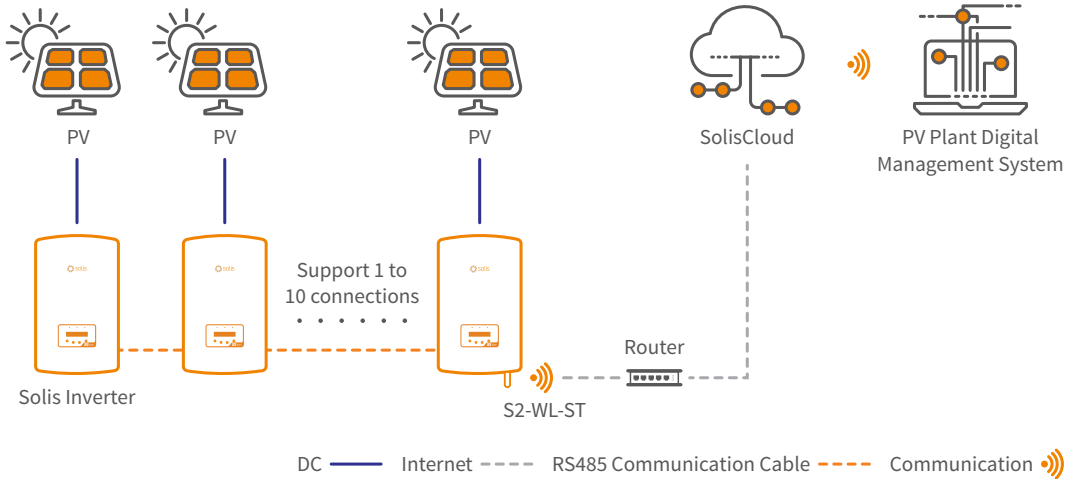


S2-WL-ST (4 Pin)



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 <sup>(1)</sup>	≤ 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) <sup>(2)</sup>		
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.

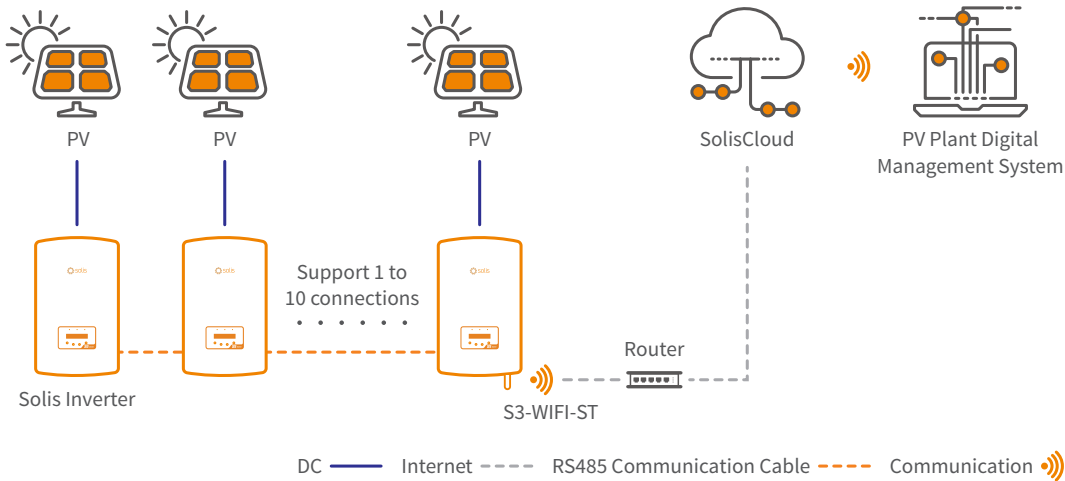
Features:

- 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 <sup>(1)</sup>	≤ 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) <sup>(2)</sup>
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.

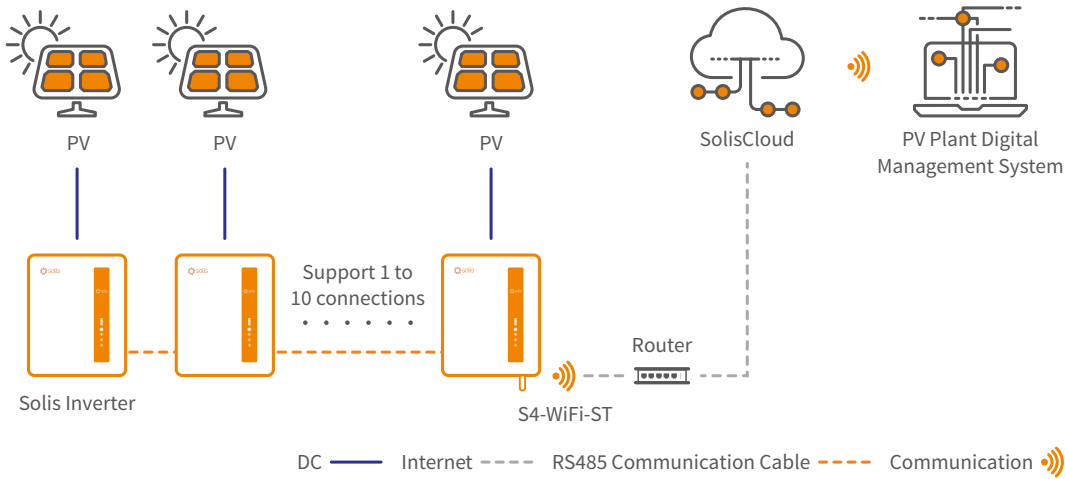
Features:

- 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 <sup>(1)</sup>	≤ 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) <sup>(2)</sup>
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:

- Support dual-band router with 5GHz and 2.4GHz
  - Fault alarm, real-time monitoring
  - Plug and play, quick installation
  - Status indicator, easy to check the operating status
- Support Bluetooth nearby connection and debugging
  - RESET button, one key to send data, convenient debugging

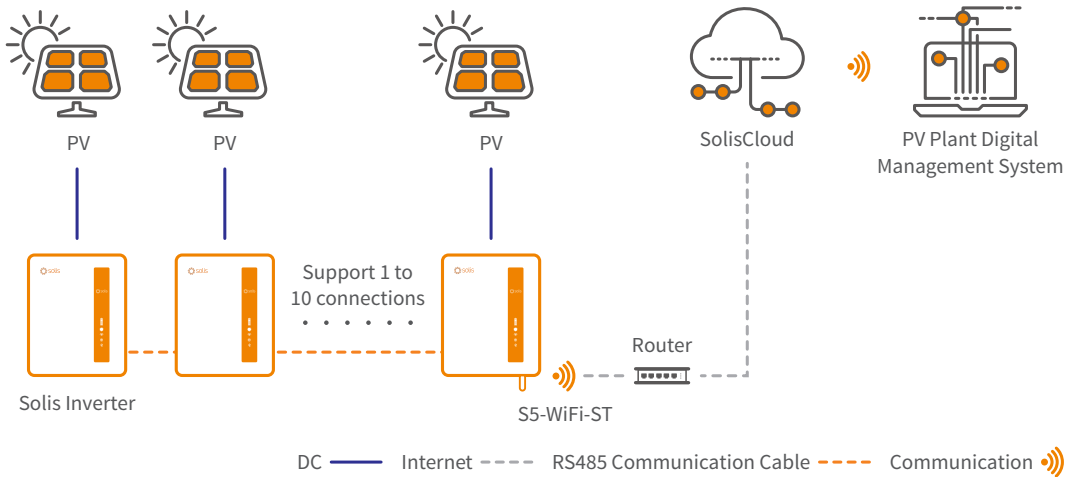


S5-WiFi-ST-4Pin



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 <sup>(1)</sup>	≤ 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
  - Fault alarm, real-time monitoring
  - Plug and play, quick installation
  - Status indicator, easy to display working status
- Support Bluetooth nearby connection and debugging
  - RESET button, one key to send data, convenient debugging

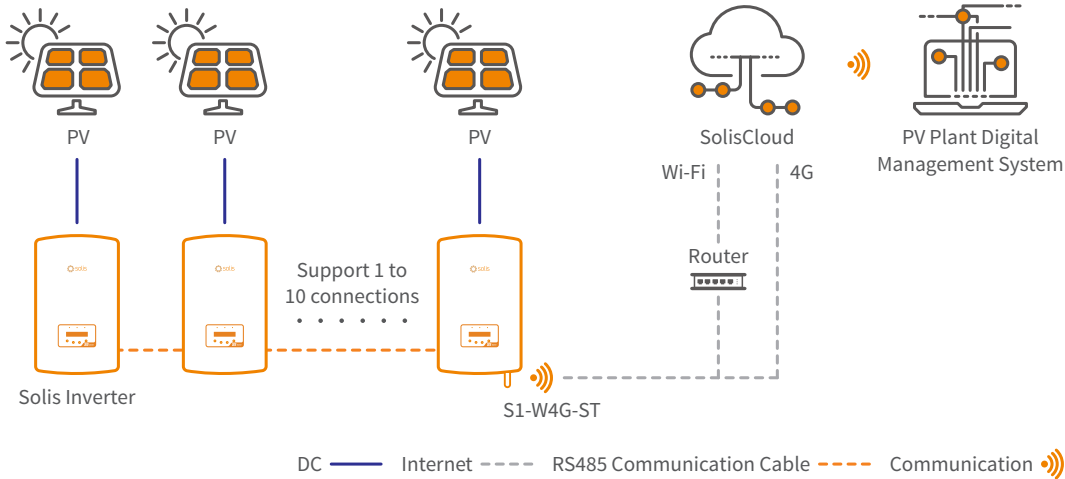


S1-W4G-ST (4 Pin)



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 <sup>(1)</sup>	≤ 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) <sup>(2)</sup> 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

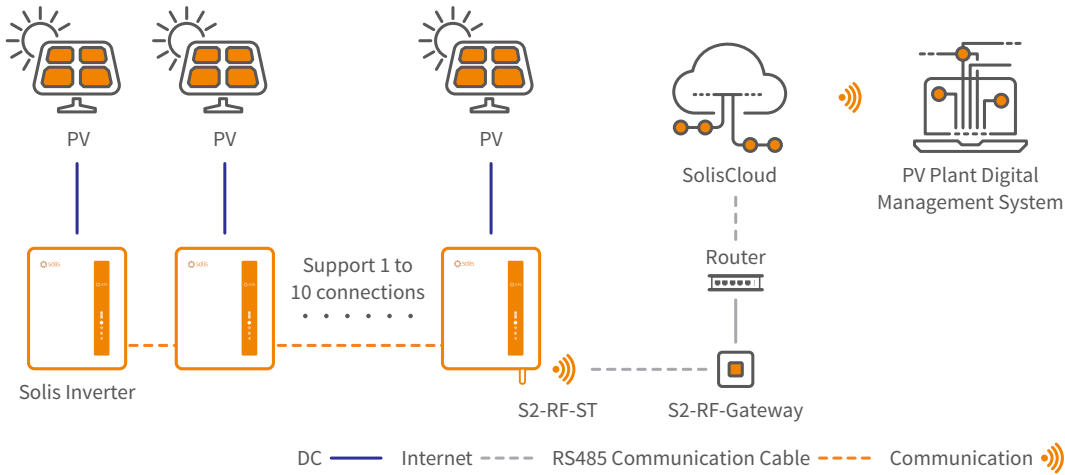
Up to 10 inverters can be connected to S2-RF-LINK. Insert the data logger directly into the inverter port , the gateway uses wired ethernet to connect to the home router, and transmits data to SolisCloud. SolisCloud, the Solis monitoring platform, allows for remote system monitoring and control. The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

Features:

- Extensive and stable RF communication
  - Fault alarm, real-time monitoring
  - Plug and play, quick installation
  - Status indicator, easy to display working status
- Support Bluetooth nearby connection and debugging
  - RESET button, one key to send data, convenient debugging



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 <sup>(1)</sup>	≤ 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.

S3-Logger

Solis Data Loggers

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.

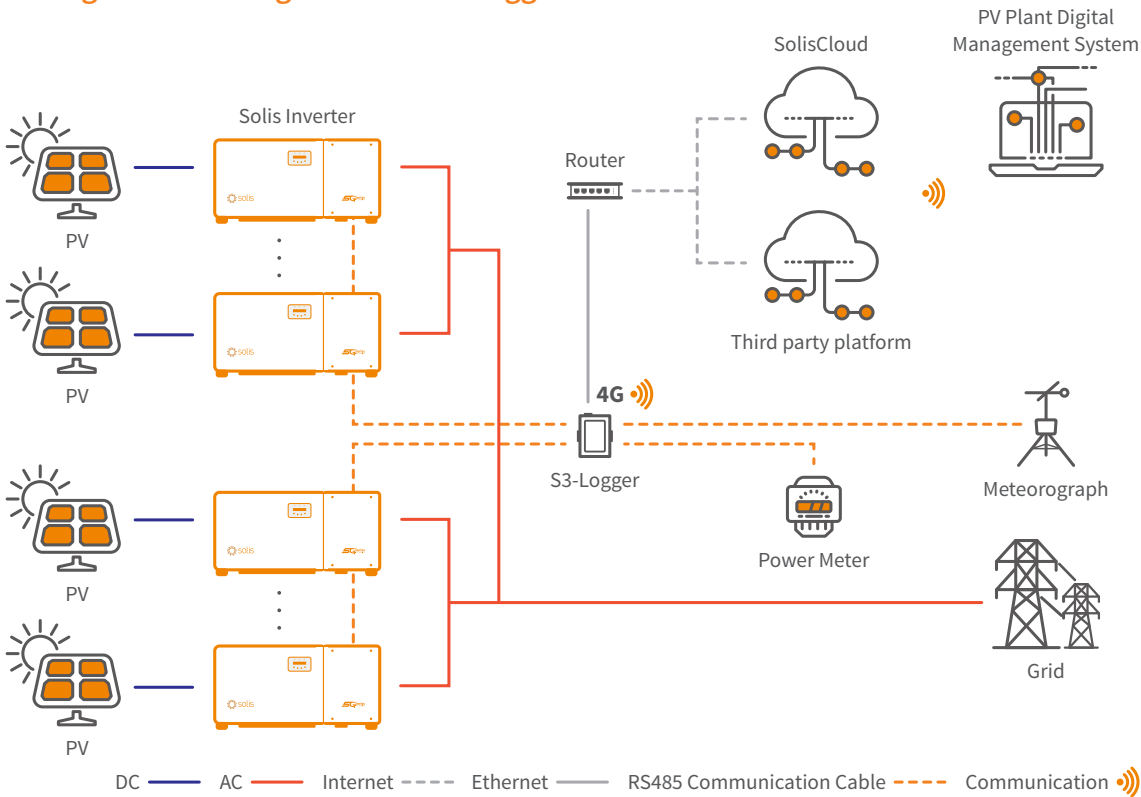
Features:

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



S3-Logger

Intelligent Monitoring Solution - S3-Logger



DATASHEET

S3-Logger

Models	S3-Logger		S3-Logger-4G
Communication			
Supported device type	Solis inverter		
Number of connected inverters <sup>(1)</sup>	Each RS485 PORT ≤ 15		
Data collection intervals	5 minutes		
Status indicator	2 LED Indicator Lights		
RS485	COM × 4, 1200 ~ 115200 bps, communication distance ≤ 1000 m		
Ethernet communication	LAN × 1, 10 / 100 Mbps adaptive, communication distance ≤ 100 m		
Wireless communication	/	4G	
Zero power output	/	Yes	
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 @ 12 VDC		
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) Inverters must first be hand-in-hand connected by RS485.

Matching Instructions

Type	Manufacturer	Model		Connection method	Special note
Meteorograph	Jinzhou Sunshine	PC-4		RS485 connects to the P3 port on the S3-Logger	1. In addition to the above device models, the newly-matched models will continue to be updated;  2. If you need to match new meteorological or meter devices, please provide manuals, specifications, and communication protocols;  3. To match the new device, development time is about 2 weeks and the final delivery of the new firmware will be upgraded on site.
	Rainwise	PVmet-75	PVmet-200		
	SevenSolar	3S-IS V7			
	Ingenieurburo	Si-RS485TC-2T			
Meter	Acrel	DTSD1352	ADL3000-E-B	RS485 connects to the P4 port on the S3-Logger	
	Janitza	UMG-96RM	UMG-512		
	Mikro	RX380			
	MEATROL	EM231			
	Schneider	PM5100	iEM3000		
		iEM3255	EM6400		
	Iskra	MC774			



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.

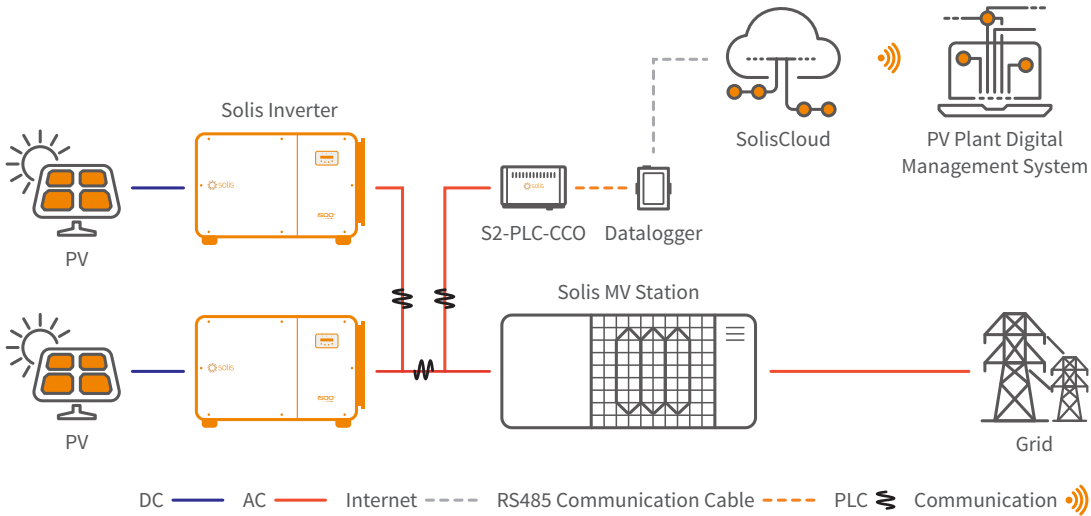
Features:

- 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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