



UK



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.

**2005**

Establishment

800+

R&D Team

80GW+

Manufacturing Capacity

TOP500

Global New Energy Enterprises

COMPANY HISTORY



2005

Ginlong Technologies established in Ningbo, China

2006

One of the first inverters certified to UK G83

2009

First Asian string inverter to achieve USA UL1741 certification

2010

Second Asian inverter certified to AS4777/AS 3100

2011

Ginlong hosted IEC61400 second annual meeting

2015

Ginlong inverter installed on the Eiffel Tower in Paris

Achieved top 12 inverter sales ranking in Europe

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

2016

Listed by Asia PV innovation

Awarded Best Distribution Inverter Brand by PVBL

2017

Granted prestigious APVIA Technology Achievement Award (2017-2021)

2018

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

2019

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

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

2020

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

Ginlong Solis won PVBL 2019 Annual Top Global PV Brand Award

2021

National Enterprise Technology Center

Ranked among the top 500 global new energy companies

National technological innovation demonstration enterprise

Excellent after-sales service system certification

Sixth batch of individual champions in 2021 by (MIIT)

2022

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)

锦浪科技

GINLONG

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, Czech Republic, Slovenia, South Africa, China, India, Indonesia, Korea, Myanmar, Malaysia, Philippines, Pakistan, Singapore, Sri Lanka, Thailand, Vietnam, Israel, Lebanon, Australia, Brazil, USA/Canada, 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 - 20kW.

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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.

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Commercial Energy Storage Solutions

Solis commercial storage product S6-EH3P(30-50)K-H, 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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Commercial & Industrial Solar PV Solutions

Solis' C&I string inverter product line is broad with a power range cover 25kW - 150kW, providing you with the best industry green power solutions.

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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.

P85

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

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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.

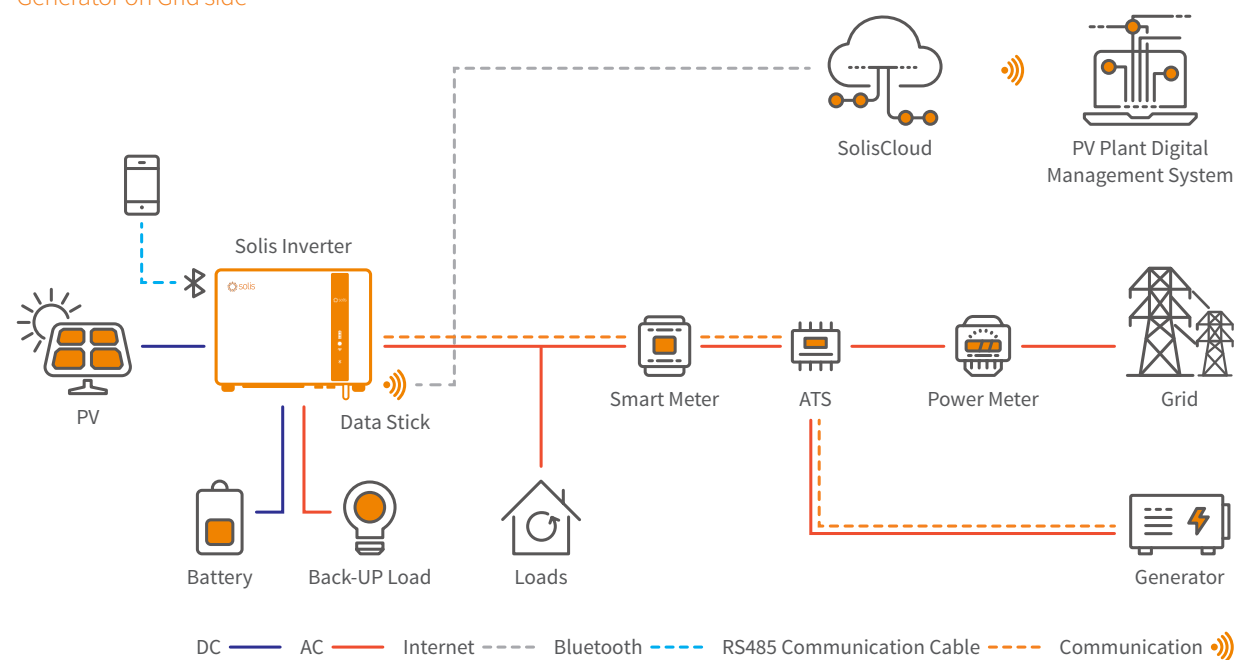
management platform. Real-time monitoring, visualized management and remote O & M of residential, C&I and utility scale solar PV plants.

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 - 20kW. We can according to the requirements of your project application scenarios, rely on our flexible products to provide you with the best residential zero-carbon green power solutions.

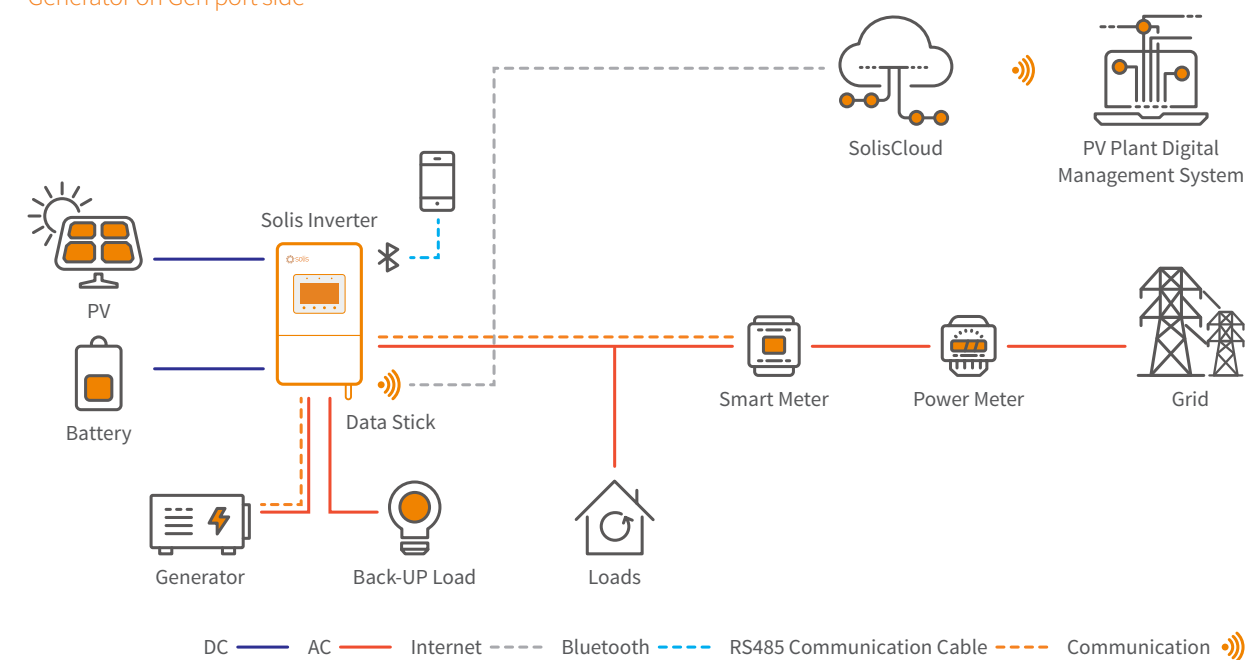
S5-EH1P(3-6)K-L	S6-EH3P(12-20)K-H
S6-EH1P8K-L-PLUS	S5-EA1P3K-L
S6-EH3P(5-10)K2-H	S6-EA1P(3.6-6)K-L
S6-EH3P(5-10)K-H-EU	S6-EO1P(4-5)K-48-EU

3 kW - 20 kW

Generator on Grid side



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



DATASHEET

S5-EH1P(3-6)K-L

Models	3K	3.6K	4.6K	5K	6K
Input DC (PV side)					
Recommended max. PV array size	6 kW	7.2 kW	9.2 kW	10 kW	12 kW
Max. usable PV input power	4.8 kW	5.7 kW	8 kW	8 kW	8 kW
Max. input voltage	600 V				
Rated voltage	330 V				
Start-up voltage	120 V				
MPPT voltage range	90 - 520 V				
Max. input current	15 A / 15 A				
Max. short circuit current	22.5 A / 22.5 A				
MPPT number / Max. input strings number	2 / 2				
Battery					
Battery type	Li-ion / Lead-acid				
Battery voltage range	42 - 58 V				
Battery capacity	50 - 2000 Ah				
Max. charge / discharge power	3 kW		5 kW		
Max. charge / discharge current	62.5 A		100 A		
Communication	CAN				
Output AC (Back-up)					
Rated output power	3 kW		5 kW		
Max. apparent output power	4.5 kVA, 10 s		7 kVA, 10 s		
Back-up switch time	< 20 ms				
Rated output voltage	1/N/PE, 220 V / 230 V				
Rated frequency	50 Hz / 60 Hz				
Rated output current	14 A / 13.5 A		23 A / 22 A		
THDv (@linear load)	< 2%				
Input AC (Grid side)					
Input voltage range	187 - 265 V				
Max. input current	20.5 A / 20 A	25 A / 23.5 A	31.5 A / 30 A	34.5 A / 33 A	34.5 A / 33 A
Frequency range	45 - 55 Hz / 55 - 65 Hz				
Output AC (Grid side)					
Rated output power	3 kW	3.6 kW	4.6 kW	5 kW	6 kW
Max. apparent output power	3.3 kVA	4 kVA	4.6 kVA	5.5 kVA	6.6 kVA
Operation phase	1/N/PE				
Rated grid voltage	220 V / 230 V				
Rated grid frequency	50 Hz / 60 Hz				
Rated grid output current	13.7 A / 13.1 A	16.4 A / 15.7 A	20.9 A / 20 A	22.8 A / 21.7 A	27.3 A / 26.1 A
Max. output current	15 A	18.5 A	21 A	25 A	30 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)				
THDi	< 2%				
Efficiency					
Max. efficiency	> 97.1%				
EU efficiency	> 96.5%				
Protection					
DC reverse-polarity protection	Yes				
Short circuit protection	Yes				
Output over current protection	Yes				
Surge protection	DC Type II / AC Type II				
Ground fault monitoring	Yes				
Integrated AFCI	Yes ⁽¹⁾				
Protection class / Over voltage category	I / II				
General Data					
Dimensions (W × H × D)	333 × 505 × 249 mm				
Weight	17.9kg		18.1 kg		
Topology	High frequency isolation (for battery)				
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				

(1) Activation required.

S6-EH1P8K-L-PLUS

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-EH1P8K-L-PLUS



DATASHEET

S6-EH1P8K-L-PLUS

Models	8K
Input DC (PV side)	
Recommended max. PV array size	16 kW
Max. usable PV input power	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	32 A / 32 A
Max. short circuit current	40 A / 40 A
MPPT number / Max. input strings number	2 / 4
Battery	
Battery type	Li-ion / Lead-acid
Battery voltage range	40 - 60 V
Max. charge / discharge power	8 kW
Max. charge / discharge current	190 A
Communication	CAN / RS485
Output AC (Grid side)	
Rated output power	8 kW
Max. apparent output power	8 kVA
Operation phase	L/N/PE
Rated grid voltage	220 V / 230 V
Rated grid frequency	50 Hz / 60 Hz
Rated grid output current	36.4 A / 34.8 A
Max. output current	36.4 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	50 A
Frequency range	45 - 55 Hz / 55 - 65 Hz
Output AC (Back-up)	
Rated output power	8 kW
Max. apparent output power	2 times of rated power, 10 s
Back-up switch time	< 4 ms
Rated output voltage	L/N/PE, 220 V / 230 V
Rated frequency	50 Hz / 60 Hz
Rated output current	36.4 A / 34.8 A
Max. AC passthrough current	50 A
THDv (@linear load)	< 2%
Efficiency	
Max. efficiency	96.2%
EU efficiency	96.1%
BAT charged by PV / AC max. efficiency	95.3% / 93.9%
BAT discharged to AC max. efficiency	93.8%
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 × 253 mm
Weight	23.5 kg
Topology	High frequency isolation (for battery)
Operating ambient temperature range	-40 ~ +60°C
Ingress protection	IP66
Cooling concept	Intelligent fan-cooling
Max. operation altitude	3000 m
Grid connection standard	NRS 097-2-1, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA, NBR 16149, NBR 16150
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	7.0" LCD display & Bluetooth + APP
Communication	RS485, CAN, Optional: Wi-Fi, GPRS, LAN

S6-EH3P(5-10)K2-H

Solis Three Phase High Voltage Energy Storage Inverters

Features:

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

Models:

S6-EH3P5K2-H / S6-EH3P6K2-H

S6-EH3P8K2-H / S6-EH3P10K2-H



360° View



DATASHEET

S6-EH3P(5-10)K2-H

Models	5K		6K		8K		10K	
Input DC (PV side)								
Recommended max. PV array size	10 kW		12 kW		16 kW		20 kW	
Max. usable PV input power	8 kW		9.6 kW		12.8 kW		16 kW	
Max. input voltage					1000 V			
Rated voltage					600 V			
Start-up voltage					160 V			
MPPT voltage range					200 - 850 V			
Max. input current					16 A / 16 A			
Max. short circuit current					24 A / 24 A			
MPPT number / Max. input strings number					2 / 2			
Battery								
Battery type					Li-ion			
Battery voltage range					120 - 600 V			
Max. charge / discharge power	5 kW		6 kW		8 kW		10 kW	
Max. charge / discharge current	25 A				50 A			
Communication					CAN / RS485			
Output AC (Grid side)								
Rated output power	5 kW		6 kW		8 kW		10 kW	
Max. apparent output power	5 kVA		6 kVA		8 kVA		10 kVA	
Rated grid voltage					3/N/PE, 380 V / 400 V			
Rated grid frequency					50 Hz / 60 Hz			
Rated grid output current	7.6 A / 7.2 A		9.1 A / 8.7 A		12.2 A / 11.5 A		15.2 A / 14.4 A	
Max. output current	7.6 A / 7.2 A		9.1 A / 8.7 A		12.2 A / 11.5 A		15.2 A / 14.4 A	
Power factor					> 0.99 (0.8 leading - 0.8 lagging)			
THDi					< 3%			
Input AC (Grid side)								
Input voltage range					304 - 437 V / 320 - 460 V			
Max. input current	11.4 A		13.8 A		18.2 A		22.8 A	
Rated grid frequency					50 Hz / 60 Hz			
Frequency range					45 - 55 Hz / 55 - 65 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 / 60 Hz			
Rated output current	7.6 A / 7.2 A		9.1 A / 8.7 A		12.2 A / 11.5 A		15.2 A / 14.4 A	
THDv (@linear load)					< 2%			
Efficiency								
Max. efficiency	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 connection					Quick connection plug			
AC connection					Quick connection plug			
Display					LED indicator & Bluetooth + APP			
Communication					CAN, RS485, Optional: Wi-Fi, Cellular, LAN			

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

Solis Three Phase High Voltage Energy Storage Inverters

Features:

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

Models:

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



360° View



DATASHEET

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

Models	5K		6K		8K		10K	
Input DC (PV side)								
Recommended max. PV array size	10 kW		12 kW		16 kW		20 kW	
Max. usable PV input power	8 kW		9.6 kW		12.8 kW		16 kW	
Max. input voltage	1000 V							
Rated voltage	600 V							
Start-up voltage	160 V							
MPPT voltage range	200 - 850 V							
Max. input current	16 A / 16 A / 16 A						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 / 60 Hz							
Rated grid output current	7.6 A / 7.2 A		9.1 A / 8.7 A		12.2 A / 11.5 A		15.2 A / 14.4 A	
Max. output current	7.6 A / 7.2 A		9.1 A / 8.7 A		12.2 A / 11.5 A		15.2 A / 14.4 A	
Power factor	> 0.99 (0.8 leading - 0.8 lagging)							
THDi	< 3%							
Input AC (Grid side)								
Input voltage range	304 - 437 V / 320 - 460 V							
Max. input current	11.4 A		13.8 A		18.2 A		22.8 A	
Rated grid frequency	50 Hz / 60 Hz							
Frequency range	45 - 55 Hz / 55 - 65 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 / 60 Hz							
Rated output current	7.6 A / 7.2 A		9.1 A / 8.7 A		12.2 A / 11.5 A		15.2 A / 14.4 A	
THDv (@linear load)	< 2%							
Efficiency								
Max. efficiency	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 connection	Quick connection plug							
AC connection	Quick connection plug							
Display	LED indicator & Bluetooth + APP							
Communication	CAN, RS485, Optional: Wi-Fi, Cellular, LAN							

S6-EH3P(12-20)K-H

Solis Three Phase High Voltage Energy Storage Inverters

Features:

- Generator-compatible to extend backup duration during grid power outage
- Supports dual backup ports for intelligent control of critical and non-critical loads
- SG heat pump compatibility
- Supports a maximum input current of 20A, making it ideal for all high-power PV modules of any brand
- Supports AC voltage detection of grid and generator output to prevent damage to generators from reverse current from the grid
- Supports peak shaving features
- Supports Unbalanced and Half-Wave Loads on both the Grid and Backup Port

Models:

- S6-EH3P12K-H
- S6-EH3P15K-H
- S6-EH3P20K-H



DATASHEET

S6-EH3P(12-20)K-H

Models	12K		15K		20K	
Input DC (PV side)						
Recommended max. PV array size	24 kW		30 kW		40 kW	
Max. usable PV input power	19.2 kW		24 kW		32 kW	
Max. input voltage			1000 V			
Rated voltage			600 V			
Start-up voltage			160 V			
MPPT voltage range			200 - 850 V			
Max. input current			4 × 20 A			
Max. short circuit current			4 × 30 A			
MPPT number / Max. input strings number			4 / 4			
Battery						
Battery type			Li-ion			
Battery voltage range			120 - 800 V			
Max. charge / discharge power	12 kW		15 kW		20 kW	
Max. charge / discharge current			50 A			
Communication			CAN / RS485			
Output AC (Grid side)						
Rated output power	12 kW		15 kW		20 kW	
Max. apparent output power	12 kVA		15 kVA		20 kVA	
Rated grid voltage			3/N/PE, 220 V / 380 V, 230 V / 400 V			
Rated grid frequency			50 Hz / 60 Hz			
Rated grid output current	18.2 A / 17.3 A		22.8 A / 21.7 A		30.4 A / 28.9 A	
Max. output current	18.2 A / 17.3 A		22.8 A / 21.7 A		30.4 A / 28.9 A	
Power factor			> 0.99 (0.8 leading - 0.8 lagging)			
THDi			< 3%			
Input AC (Grid side)						
Input voltage range			304 - 437 V / 320 - 460 V			
Max. input current	27.3 A / 26.0 A		34.2 A / 32.5 A		45.6 A / 43.3 A	
Rated grid frequency			50 Hz / 60 Hz			
Frequency range			45 - 55 Hz / 55 - 65 Hz			
Input Generator						
Max. input power	12 kW		15 kW		20 kW	
Max. input current	18.2 A / 17.3 A		22.8 A / 21.7 A		30.4 A / 28.9 A	
Rated input frequency			50 Hz / 60 Hz			
Output AC (Back-up)						
Rated output power	12 kW		15 kW		20 kW	
Max. apparent output power	2 times of rated power, 10 s				1.6 time of rated power, 10 s	
Back-up switch time			< 10 ms			
Rated output voltage			3/N/PE, 220 V / 380 V, 230 V / 400 V			
Rated frequency			50 Hz / 60 Hz			
Rated output current	18.2 A / 17.3 A		22.8 A / 21.7 A		30.4 A / 28.9 A	
THDv (@linear load)			< 3%			
Efficiency						
Max. efficiency			97.7%			
EU efficiency			97.5%			
BAT charged by PV max. efficiency			98.5%			
BAT charged / discharged to AC max. efficiency			97.2%			
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				40% rated power	
Dimensions (W × H × D)			563 × 546 × 250 mm			
Weight			35.2 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)			< 65 dB(A)			
Cooling concept			Intelligent fan-cooling			
Max. operation altitude			2000 m			
Grid connection standard	EN 50549-1/-10, VDE4105, CEI 0-21, CEI 0-16, NC-RFG TypeB, NRS 097-2-1, LTN-1, G99, PEA					
Safety / EMC standard			IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4			
Features						
PV connection			MC4 connector			
Battery connection			OT terminal			
AC connection			OT terminal			
Display			7.0" LCD display & Bluetooth + APP			
Communication			CAN, RS485, Ethernet, Optional: Wi-Fi, Cellular, LAN			

S5-EA1P3K-L

Solis Single Phase Low Voltage AC-Coupled Inverters

Features:

- Compatible with lead-acid and lithium batteries, with multiple battery protection features
- Compatible with any existing grid-tied PV system, option to upgrade
- Intelligent debugging APP which support one-click inverter configuration
- Various work mode for different application scenario
- Natural cooling without external fan

Models:

S5-EA1P3K-L



360° View



DATASHEET

S5-EA1P3K-L

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

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

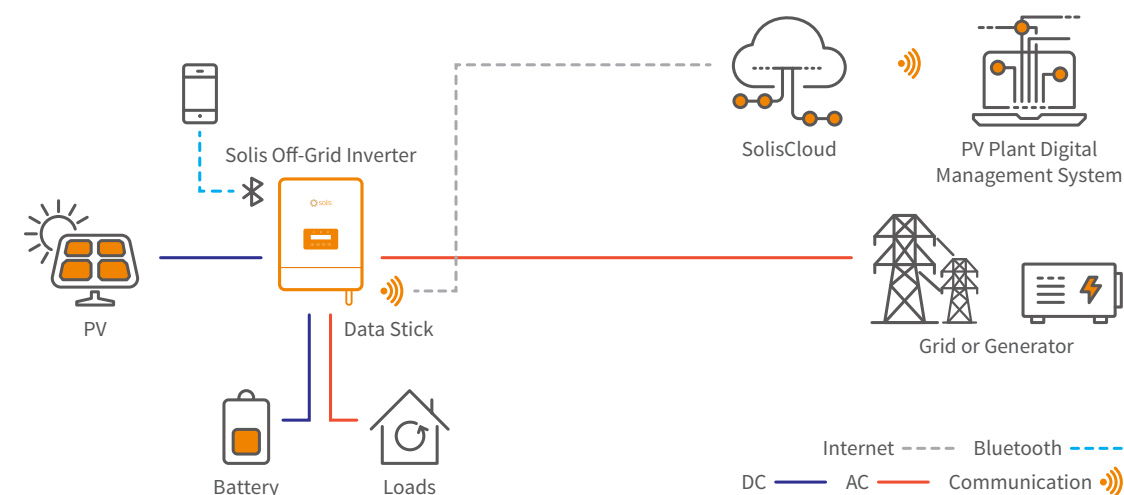
Models	3.6K	4.6K	5K	6K
Battery				
Battery type	Li-ion			
Battery voltage range	40 - 60 V			
Max. charge / discharge current	75 A	96 A	105 A	125 A
Communication	CAN			
Input AC (Grid side)				
Input voltage range	187 - 253 V			
Max. input current	16.4 A / 15.7 A	21 A / 20 A	22.8 A / 21.8 A	27.3 A / 26.1 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 / 60 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	4000 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			

Off-grid Energy Storage Solutions

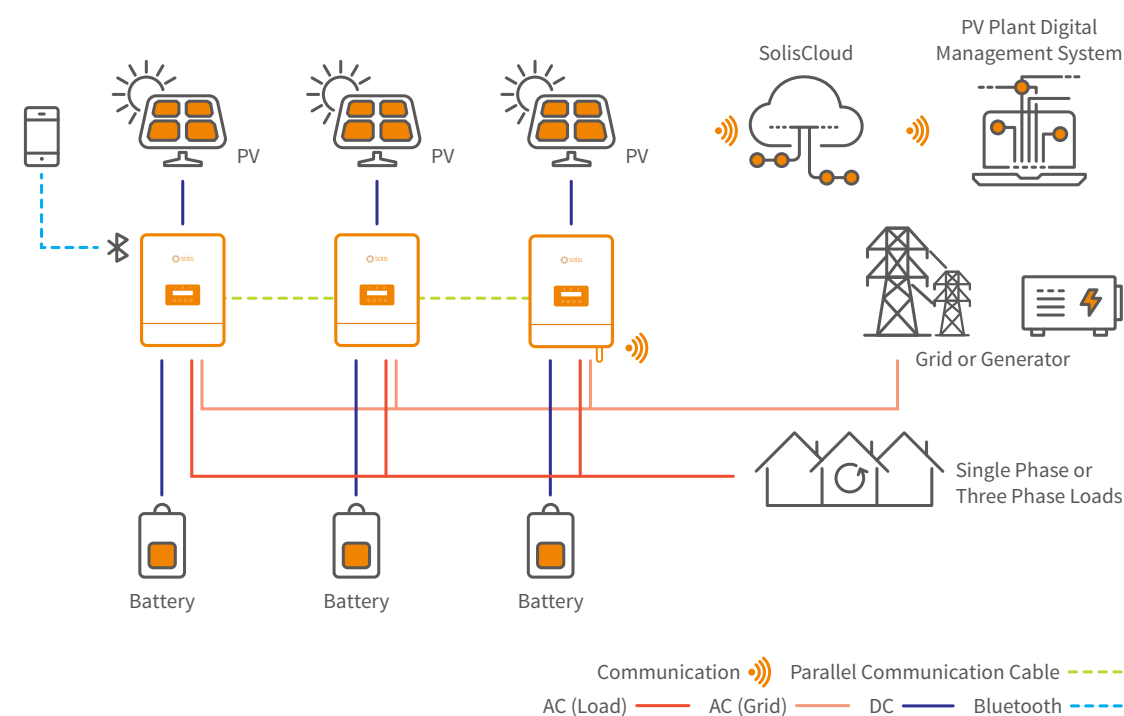
Solis EO series inverter is designed for residential off-grid systems in the countries without stable grid power, which can work with batteries to supply power to load and can also charge the batteries through PV plants, grid or generator.

The product has a variety of application scenarios combination modes, and can realize modular system assembly configuration according to needs. And can provide multiple products in parallel to form up to 30kW single-phase parallel operation system, which is very suitable for small industrial, commercial or residential energy storage projects.

Off-grid Energy Storage Solution - Single EO Inverter



Off-grid Energy Storage Solution - Multiple Parallel EO Inverters



S6-EO1P(4-5)K-48-EU

Solis Single Phase Low Voltage Off-Grid Inverters

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
- Supports six different battery charging and discharging TOU (Time of Use) settings to lower your electricity bill
- 10 seconds of 200% overload capability
- Supports general setting options for lithium batteries, suitable for non-communicating batteries

Models:

S6-EO1P4K-48-EU
S6-EO1P5K-48-EU



DATASHEET

S6-EO1P(4-5)K-48-EU

Models	4K	5K
Solar Charger		
Max. usable PV input power	5.5 kW	6.5 kW
Max. input voltage	500 V	
Start-up voltage	90 V	
MPPT voltage range	90 - 430 V	
Max. input current	16 A / 16 A	
Max. short circuit current	40 A	
Max. solar charge current	100 A	
MPPT number / Max. input strings number	1 / 2	
Battery		
Battery type	Li-ion / Lead-acid	
Rated battery voltage	40 - 60 V	
Max. charge / discharge power	5 kW / 5 kW	
Max. charge / discharge current	100 A	
Communication	CAN	
Inverter Output		
Rated output power	4 kVA / 4 kW	5 kVA / 5 kW
Operation phase	L/N/PE	
Rated grid voltage	230 V ± 1%	
Rated grid frequency	50 Hz / 60 Hz ± 0.1%	
Surge capacity	8 kVA	10 kVA
Max. output current	20 A	25 A
Output voltage waveform	Pure sine wave	
Transfer time	10 ms typical, 20 ms Max	
THDv (@linear load)	< 3%	
Peak efficiency (PV-AC)	96.6%	
AC Charger (grid port and generator port)		
Max. input power	6 kW	7 kW
Rated input voltage	L/N/PE, AC 230 V	
Selectable voltage range	90 - 280 V	
AC frequency range	50 Hz / 60 Hz	
Max. input current	26 A	30 A
Max. AC charge current	60 A	80 A
Protection		
Output over voltage protection	Yes	
Output over current protection	Yes	
Short circuit protection	Yes	
Surge protection	Yes	
Temperature protection	Yes	
Integrated AFCI 2.0	Optional	
General Data		
Dimensions (W × H × D)	340 × 495 × 170 mm	
Weight	14.1 kg	
Topology	High frequency non-isolation	
Relative humidity	5% - 95% (Non-condensing)	
Operating ambient temperature range	-10 ~ +60°C	
Storage temperature range	-25 ~ +60°C	
Ingress protection	IP21	
Max. operation altitude	2000 m	
Parallel capability	6 units	
Safety standard	IEC 62109, IEC 61000, 55011	
Features		
DC connection	Terminal connectors	
AC connection	Terminal connectors	
Display	LCD	
Communication	CAN, BMS, Dry-contact, Bluetooth, Optional: Wi-Fi	

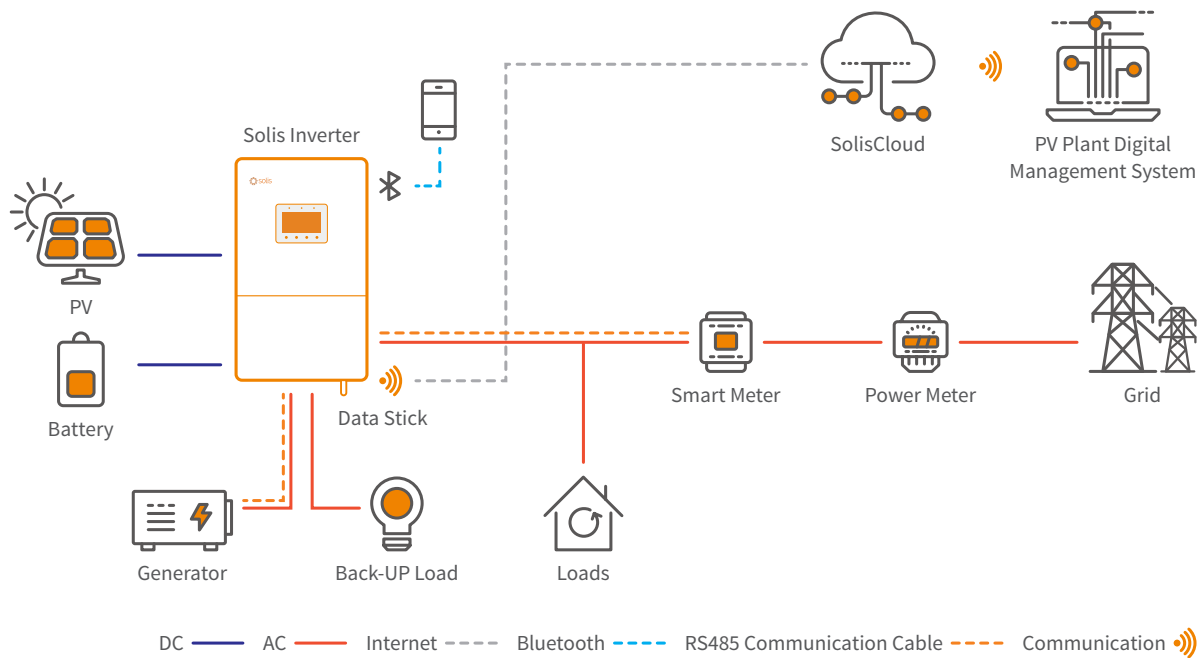
Commercial Energy Storage Solutions

Solis commercial storage product S6-EH3P(30-50)K-H, 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.

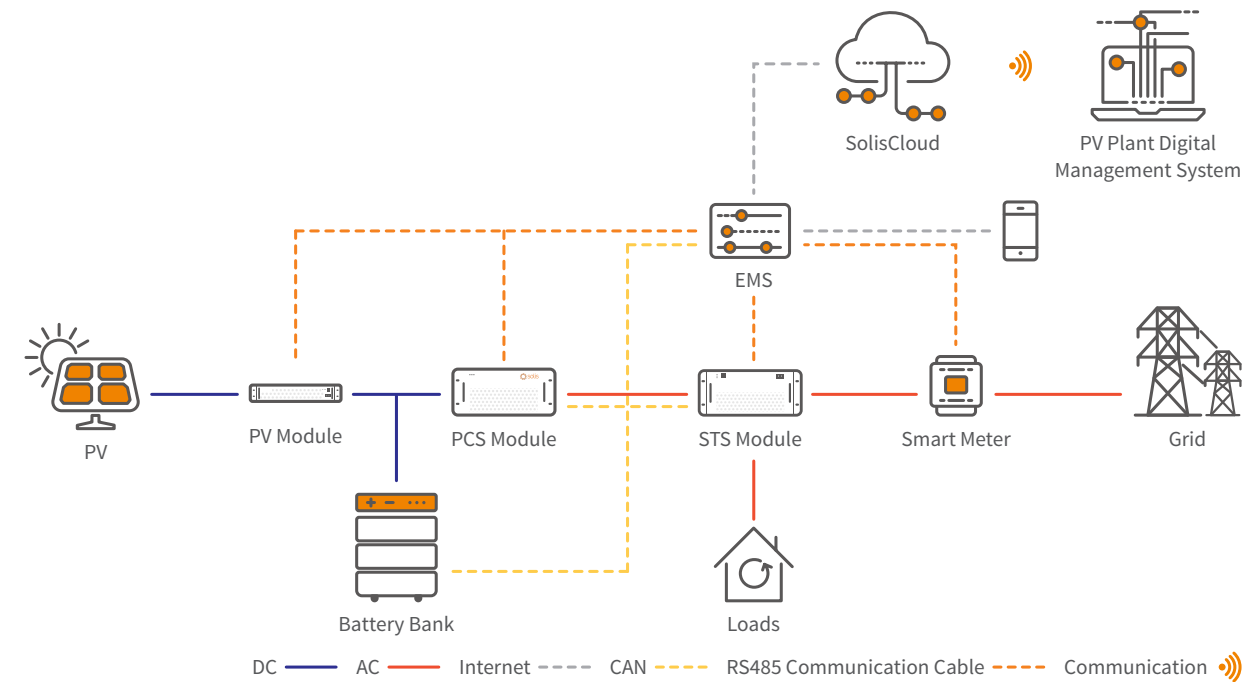
It has 4 MPPT design, PV string current up to 20A, can be adapted to a variety of high-efficiency high-power PV module, to meet a variety of complex commercial roof application requirements; At the same time, the product can be compatible with a variety of generators can automatically control the generator 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.

- Models:**
S6-EH3P(30-50)K-H
S6-PM3P(100-125)KAA-NV-ND-H
- Output:**
30 kW - 50 kW

Commercial Energy Storage Solution



Commercial Energy Storage Solution (module)



S6-EH3P(30-50)K-H

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 from any brand
- Battery real-time monitoring , remote upgrade, and battery healing function to prolong battery life
- Supports Peakshaving 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
- Support 200% DC/AC ratio, make full use of PV charging, provide long backup hours

Models:

- S6-EH3P30K-H
- S6-EH3P40K-H
- S6-EH3P50K-H



DATASHEET

S6-EH3P(30-50)K-H

Models	30K		40K		50K	
Input DC (PV side)						
Recommended max. PV array size	60 kW		80 kW		100 kW	
Max. usable PV input power	60 kW		80 kW		96 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	60 A / 60 A / 60 A				4 × 60 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	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	33 kW		35 kW		35 kW	
Communication			CAN / RS485			
Output AC (Grid side)						
Rated output power	30 kW		40 kW		50 kW	
Max. apparent output power	30 kVA		40 kVA		50 kVA	
Rated grid voltage			3/N/PE, 220 V / 380 V, 230 V / 400 V			
Rated grid frequency			50 Hz / 60 Hz			
Rated grid output current	45.6 A / 43.3 A		60.8 A / 57.7 A		76 A / 72.2 A	
Max. output current	45.6 A / 43.3 A		60.8 A / 57.7 A		76 A / 72.2 A	
Power factor			> 0.99 (0.8 leading - 0.8 lagging)			
THDi			< 3%			
Input AC (Grid side)						
Max. AC passthrough current	91.2 A / 86.6 A		121.6 A / 115.4 A		152 A / 144.4 A	
Rated input voltage			3/N/PE, 220 V / 380 V, 230 V / 400 V			
Rated input frequency			50 Hz / 60 Hz			
Input Generator						
Max. input power	30 kW		40 kW		50 kW	
Rated input current	45.6 A / 43.3 A		60.8 A / 57.7 A		76 A / 72.2 A	
Rated input voltage			3/N/PE, 220 V / 380 V, 230 V / 400 V			
Rated input frequency			50 Hz / 60 Hz			
Output AC (Back-up)						
Rated output power	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, 220 V / 380 V, 230 V / 400 V			
Rated frequency			50 Hz / 60 Hz			
Rated output current	45.6 A / 43.3 A		60.8 A / 57.7 A		76 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			
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			
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			G99, VDE-AR-N 4105/VDE V 0124, EN 50549-1/EN 50549-10, VDE 0126/UTE C 15/VFR:2019, NTS 631/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,PORTARIA Nº 140, DE 21 DE MARÇO DE 2022			
Safety / EMC standard			IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4, EN 55011			
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			

(1) Supporting parallel 140A input.

S6-PM3P(100-125)KAA-NV-ND-H

Solis Energy Storage PCS Module

Features:

- Max. efficiency 98.5%
- Independent IP65 on IGBT for harsh environments
- Continuous power output ability of up to 60kW at 60°C
- Grid-friendly with adjustable power factor -1 ~ 1
- Wide mechanical compatibility, suitable for all kinds of integration cabinets
- Integrates key components from renowned international suppliers and ensures a highly reliable performance

Models:

S6-PM3P100KAA-NV-ND-H

S6-PM3P125KAA-NV-ND-H



DATASHEET

S6-PM3P(100-125)KAA-NV-ND-H

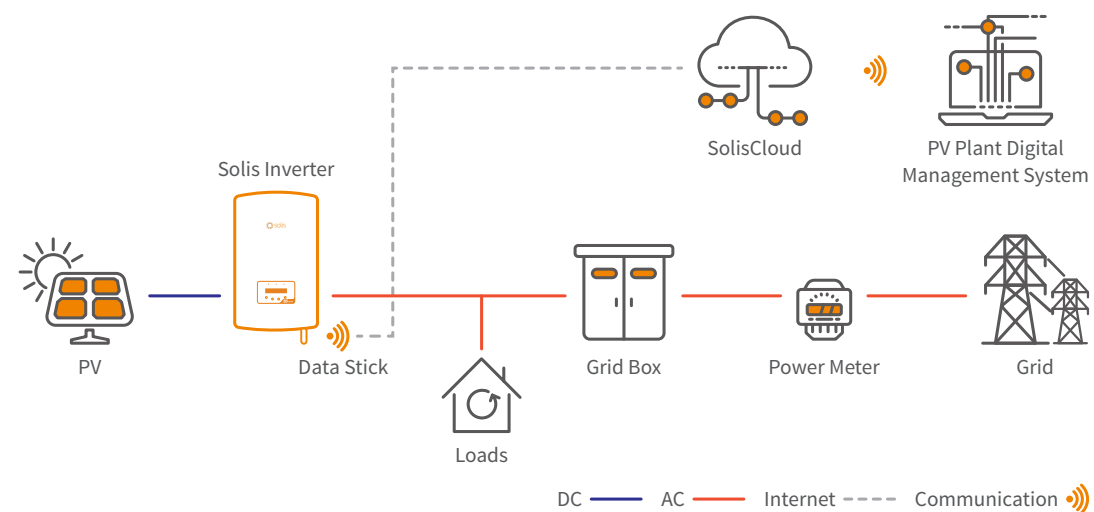
Models	100K	125K
DC Side		
Battery voltage range	650 - 950 V	
Rated power	100 kW	125 kW
Max. charge / discharge power	110 kW	137.5 kW
Max. charge / discharge current	153.8 A	192.3 A
Overload charge / discharge current	210 A	
Communication	RS485 / CAN	
AC Side		
Rated output power	100 kW	125 kW
Max. apparent output power	110 kVA	137.5 kVA
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V	
Grid voltage range	304 - 460 V	
Rated frequency	50 Hz / 60 Hz	
Grid frequency range	45 - 55 Hz / 55 - 65 Hz	
Rated grid output current	151.9 A	189.9 A
Max. output current	210 A	
Power factor	-1 ~ 1 (leading - lagging)	
THDi	≤ 3%	
Efficiency		
Max. efficiency	98.5%	
EU efficiency	97.8%	
Protection		
Surge protection	II	
DC reverse-polarity protection	Yes	
Protection class / Over voltage category	I / II	
General Data		
Dimensions (W × H × D)	440 × 256.5 × 678.6 mm	
Weight	65 kg	
Topology	I	
Operating ambient temperature range	-25 ~ +60°C	
Ingress protection	IP 20	
Cooling concept	Intelligent fan-cooling	
Max. operation altitude	4000 m	
Grid connection standard	EN50549-1/10, NRS 097-2-1 24, VDE 4105, VDE 0124	
Safety / EMC standard	IEC 62109, IEC 62477, IEC 61000, IEC62920, EN 55011, IEC 61727, IEC 62116	
Features		
DC connection	OT terminal	
AC connection	OT terminal	
Display	LED	
Communication	CAN, RS485, DI/DO port	

Residential Solar PV Solutions

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

The portfolio includes single-phase and small three-phase string inverters, with a wide range of models, providing the best home green power solutions based on your application scenarios and specific needs. Solis Residential inverters are small and light, allowing for just one person to complete the installation. The overall design is sleek and modern, with low noise, particularly suitable for home installation without affecting people's daily activities. Via online or App, you can connect to SolisCloud for intelligent energy management. Simple operation and convenient. Solis residential solutions are technically advanced, flexible and simplify integration with digital home automation equipment and smart grids.

Residential Solar PV Solution



Models:

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

Output:

0.7 kW - 20 kW

S6-GR1P(0.7-3.6)K-M

Solis Single Phase Grid-Tied Inverters

Features:

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

Models:

S6-GR1P0.7K-M / S6-GR1P1K-M

S6-GR1P1.5K-M / S6-GR1P2K-M

S6-GR1P2.5K-M / S6-GR1P3K-M

S6-GR1P3.6K-M



360° View



DATASHEET

S6-GR1P(0.7-3.6)K-M

Models	0.7K	1K	1.5K	2K	2.5K	3K	3.6K
Input DC							
Recommended max. PV power	1.1 kW	1.5 kW	2.3 kW	3 kW	3.8 kW	4.5 kW	5.4 kW
Max. input voltage	600 V						
Rated voltage	200 V			330 V			
Start-up voltage	60 V			90 V			
MPPT voltage range	50 - 500 V			80 - 500 V			
Max. input current	14 A						19 A
Max. short circuit current	22 A						24 A
MPPT number / Max. input strings number	1 / 1						1 / 2
Output AC							
Rated output power	0.7 kW	1 kW	1.5 kW	2 kW	2.5 kW	3 kW	3.6 kW
Max. apparent output power	0.77 kVA	1.1 kVA	1.65 kVA	2.2 kVA	2.75 kVA	3.3 kVA	3.6 kVA
Max. output power	0.77 kW	1.1 kW	1.65 kW	2.2 kW	2.75 kW	3.3 kW	3.6 kW
Rated grid voltage	1/N/PE, 220 V / 230 V						
Rated grid frequency	50 Hz / 60 Hz						
Rated grid output current	3.2 A / 3.0 A	4.5 A / 4.3 A	6.8 A / 6.5 A	9.1 A / 8.7 A	11.4 A / 10.9 A	13.6 A / 13 A	16 A
Max. output current	4.4 A	5.2 A	8.1 A	10.5 A	13.3 A	15.7 A	16 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)						
THDi	< 3%						
Efficiency							
Max. efficiency	96.6%		96.6%	97.1%	97.1%		97.3%
EU efficiency	95.3%		95.4%	96.4%	96.7%		96.8%
Protection							
DC reverse-polarity protection				Yes			
Short circuit protection				Yes			
Output over current protection				Yes			
Surge protection				Yes			
Grid monitoring				Yes			
Anti-islanding protection				Yes			
Multi peak scan				Yes			
Temperature protection				Yes			
Integrated AFCI				Yes ⁽¹⁾			
Integrated DC switch				Yes			
General Data							
Dimensions (W × H × D)	310 × 373 × 160 mm						
Weight	7.4 kg				7.7 kg		
Topology	Transformerless						
Self-consumption (night)	< 1 W						
Operating ambient temperature range	-25 ~ +60°C						
Relative humidity	0 - 100%						
Ingress protection	IP66						
Noise emission (typical)	< 20 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/-2/-3/-4						
Features							
DC connection	MC4 connector						
AC connection	Quick connection plug						
Display	LCD						
Communication	RS485, Optional: Wi-Fi, GPRS						

(1) Activation required.

S6-GR1P(2.5-6)K

Solis Single Phase Grid-Tied Inverters

Features:

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

Models:

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



DATASHEET

S6-GR1P(2.5-6)K

Models	2.5K	3K	3.6K	4K	4.6K	5K	6K
Input DC							
Recommended max. PV power	3.75 kW	4.5 kW	5.4 kW	6 kW	6.9 kW	7.5 kW	9 kW
Max. input voltage	550 V	600 V					
Rated voltage	250 V	330 V					
Start-up voltage	60 V	120 V					
MPPT voltage range	50 - 450 V	90 - 520 V					
Max. input current	14 A / 14 A						
Max. short circuit current	22 A / 22 A						
MPPT number / Max. input strings number	2 / 2						
Output AC							
Rated output power	2.5 kW	3 kW	3.6 kW	4 kW	4.6 kW	5 kW	6 kW
Max. apparent output power	2.8 kVA	3.3 kVA	4 kVA	4.4 kVA	5 kVA	5 kVA	6 kVA
Max. output power	2.8 kW	3.3 kW	4 kW	4.4 kW	5 kW	5 kW	6 kW
Rated grid voltage	1/N/PE, 220 V / 230 V						
Rated grid frequency	50 Hz / 60 Hz						
Rated grid output current	11.4 A / 10.9 A	13.6 A / 13.0 A	16.0 A / 15.7 A	18.2 A / 17.4 A	20.9 A / 20.0 A	22.7 A / 21.7 A	27.3 A
Max. output current	13.3 A	15.7 A	16.0 A	21.0 A	23.8 A	25.0 A	27.3 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)						
THDi	< 3%						
Efficiency							
Max. efficiency	97.3%	97.3%		97.6%		97.7%	
EU efficiency	96.5%	96.6%		97.1%		97.1%	
Protection							
DC reverse-polarity protection	Yes						
Short circuit protection	Yes						
Output over current protection	Yes						
Surge protection	Yes						
Grid monitoring	Yes						
Anti-islanding protection	Yes						
Multi peak scan	Yes						
Temperature protection	Yes						
Integrated AFCI	Yes ⁽¹⁾						
Integrated DC switch	Yes						
General Data							
Dimensions (W × H × D)	310 × 543 × 160 mm						
Weight	11 kg	11.2 kg		12 kg			
Topology	Transformerless						
Self-consumption (night)	< 1 W						
Operating ambient temperature range	-25 ~ +60°C						
Relative humidity	0 - 100%						
Ingress protection	IP66						
Noise emission (typical)	< 20 dB(A)						
Cooling concept	Natural cooling						
Max. operation altitude	4000 m						
Grid connection standard	G98 ⁽²⁾ or G99, VDE-AR-N 4105/VDE V 0124, EN 50549-1, VDE 0126/UTE C 15/VFR:2019, RD 1699/RD 244/UNE 206006/UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA						
Safety / EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-3						
Features							
DC connection	MC4 connector						
AC connection	Quick connection plug						
Display	LCD						
Communication	RS485, Optional: Wi-Fi, GPRS						

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

S6-GR1P(7-8)K2

Solis Single Phase Grid-Tied Inverters

Features:

- Max. efficiency 97.7%
- String current up to 18A/32A
- Wide voltage range and low startup voltage
- 2 MPPT design with precise MPPT algorithm
- Integrated Export Power Manager (EPM)
- AFCI protection, proactively reduces fire risk
- Compact and lightweight
- Friendly and adaptable connection to the grid

Models:

- S6-GR1P7K2
- S6-GR1P8K2



DATASHEET

S6-GR1P(7-8)K2

Models	7K	8K
Input DC		
Recommended max. PV power	10.5 kW	12 kW
Max. input voltage	550 V	
Rated voltage	330 V	
Start-up voltage	90 V	
MPPT voltage range	90 - 500 V	
Max. input current	18 A / 32 A	
Max. short circuit current	20 A / 40 A	
MPPT number / Max. input strings number	2 / 3	
Output AC		
Rated output power	7 kW	8 kW
Max. apparent output power	7 kVA	8 kVA
Max. output power	7 kW	8 kW
Rated grid voltage	1/N/PE, 220 V / 230 V	
Rated grid frequency	50 Hz / 60 Hz	
Rated grid output current	31.8 A / 30.4 A	36.4 A / 34.8 A
Max. output current	31.8 A	36.4 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)	
THDi	< 3%	
Efficiency		
Max. efficiency	97.7%	
EU efficiency	96.8%	
Protection		
DC reverse-polarity protection	Yes	
Short circuit protection	Yes	
Output over current protection	Yes	
Surge protection	Yes	
Grid monitoring	Yes	
Anti-islanding protection	Yes	
Multi peak scan	Yes	
Temperature protection	Yes	
Integrated AFCI 2.0	Optional	
Integrated DC switch	Yes	
General Data		
Dimensions (W × H × D)	310 × 550 × 180 mm	
Weight	13.2 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 with internal fan	
Max. operation altitude	4000 m	
Grid connection standard	EN 50549-1, IEC 62116, IEC 61727, IEC60068, IEC 61683, EN 50530	
Safety / EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4	
Features		
DC connection	MC4 connector	
AC connection	Quick connection plug	
Display	LCD	
Communication	RS485, Optional: Wi-Fi, GPRS	

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 - 150kW, 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.

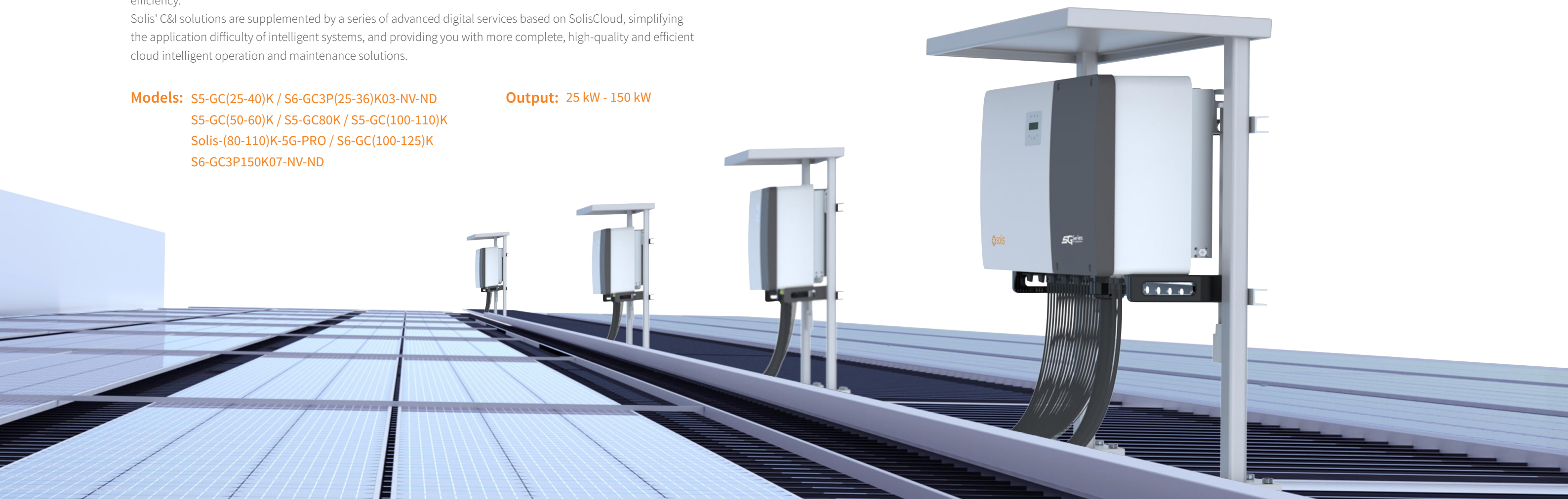
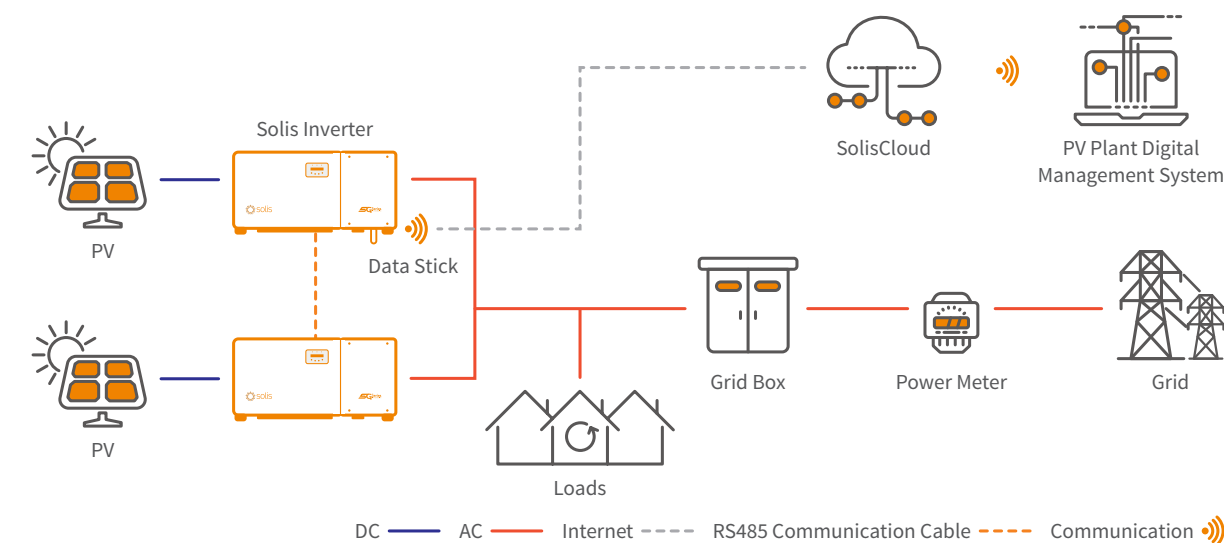
The power range of Solis' C&I products covers a wide range, with a single power up to 150kW. High-efficiency and high-power-density inverters can reduce installation and maintenance workloads and improve overall cost efficiency.

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

Models: S5-GC(25-40)K / S6-GC3P(25-36)K03-NV-ND
S5-GC(50-60)K / S5-GC80K / S5-GC(100-110)K
Solis-(80-110)K-5G-PRO / S6-GC(100-125)K
S6-GC3P150K07-NV-ND

Output: 25 kW - 150 kW

Commercial & Industrial Solar PV Solution



S5-GC(25-40)K

Solis Three Phase Grid-Tied Inverters

Efficient

- Max. efficiency 98.7%
- String current up to 16A
- 3/4 MPPT design, supports multiple orientation system design
- Night time PID recovery function, increases overall system yield (optional)
- Wide voltage range and low startup voltage

Smart

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

Safe

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

Economic

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

Models:

S5-GC25K / S5-GC30K
S5-GC33K / S5-GC36K
S5-GC40K



360° View



DATASHEET

S5-GC(25-40)K

Models	25K	30K	33K	36K	40K
Input DC					
Recommended max. PV power	37.5 kW	45 kW	49.5 kW	54 kW	60 kW
Max. input voltage	1100 V				
Rated voltage	600 V				
Start-up voltage	180 V				
MPPT voltage range	200 - 1000 V				
Max. input current	32 A / 32 A / 32 A			4 × 32 A	
Max. short circuit current	40 A / 40 A / 40 A			4 × 40 A	
MPPT number / Max. input strings number	3 / 6			4 / 8	
Output AC					
Rated output power	25 kW	30 kW	33 kW	36 kW	40 kW
Max. apparent output power	27.5 kVA	33 kVA	36.3 kVA	39.6 kVA	44 kVA
Max. output power	27.5 kW	33 kW	36.3 kW	39.6 kW	44 kW
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V				
Rated grid frequency	50 Hz / 60 Hz				
Rated grid output current	38.0 A / 36.1 A	45.6 A / 43.3 A	50.1 A / 47.6 A	54.7 A / 52.0 A	60.8 A / 57.7 A
Max. output current	41.8 A	50.2 A	55.1 A	60.2 A	66.9 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)				
THDi	< 3%				
Efficiency					
Max. efficiency	98.5%		98.6%	98.7%	
EU efficiency	98.1%		98.2%	98.3%	
Protection					
DC reverse-polarity protection	Yes				
Short circuit protection	Yes				
Output over current protection	Yes				
Surge protection	DC Type II / AC Type II				
Grid monitoring	Yes				
Anti-islanding protection	Yes				
Temperature protection	Yes				
Strings monitoring	Yes				
I/V Curve scanning	Yes				
Multi peak scan	Yes				
Integrated AFCI 2.0	Optional				
Integrated PID recovery	Optional				
Integrated DC switch	Yes				
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	IP66				
Noise emission (typical)	≤ 60 dB(A)				
Cooling concept	Intelligent fan-cooling				
Max. operation altitude	4000 m				
Grid connection standard	G99, VDE-AR-N 4105/VDE V 0124, EN 50549-1, VDE 0126/UTE C 15/VFR:2019, RD 1699/RD 244/UNE 206006/UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, EIFS 2018.2, IEC 62116, IEC 61727, IEC60068, IEC 61683, EN 50530				
Safety / EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4				
Features					
DC connection	MC4 connector				
AC connection	OT terminal				
Display	LCD				
Communication	RS485, Optional: Wi-Fi, GPRS				

S6-GC3P(25-36)K03-NV-ND

Solis Three Phase Grid-Tied Inverters

Features:

- Max. efficiency 98.5%
- String current up to 20A
- > 150% DC/AC ratio, supports high power modules
- Automatic voltage stabilization technology in weak grid conditions
- AFCI protection, proactively reduces fire risk
- Supports RS485/ WiFi/GPRS/4G
- Scan to register on SolisCloud, supports remote upgrade and control

Models:

- S6-GC3P25K03-NV-ND
- S6-GC3P30K03-NV-ND
- S6-GC3P33K03-NV-ND
- S6-GC3P36K03-NV-ND



DATASHEET

S6-GC3P(25-36)K03-NV-ND

Models	25K	30K	33K	36K
Input DC				
Recommended max. PV power	37.5 kW	45 kW	49.5 kW	54 kW
Max. input voltage	1100 V			
Rated voltage	600 V			
Start-up voltage	180 V			
MPPT voltage range	180 - 1000 V			
Max. input current	40 A / 40 A / 40 A			
Max. short circuit current	50 A / 50 A / 50 A			
MPPT number / Max. input strings number	3 / 6			
Output AC				
Rated output power	25 kW	30 kW	33 kW	36 kW
Max. apparent output power	25 kVA	30 kVA	33 kVA	36 kVA
Max. output power	25 kW	30 kW	33 kW	36 kW
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V			
Rated grid frequency	50 Hz / 60 Hz			
Rated grid output current	38.0 A / 36.1 A	45.6 A / 43.3 A	50.1 A / 47.6 A	54.7 A / 52 A
Max. output current	38.0 A / 36.1 A	45.6 A / 43.3 A	50.1 A / 47.6 A	54.7 A / 52 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)			
THDi	< 3%			
Efficiency				
Max. efficiency	98.5%			
EU efficiency	98%			
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 DC switch	Yes			
General Data				
Dimensions (W × H × D)	355 × 625 × 250 mm			
Weight	25.3 kg	25.5 kg	26.5 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)	≤ 60 dB(A)			
Cooling concept	Intelligent fan-cooling			
Max. operation altitude	4000 m			
Grid connection standard	G98 or G99, VDE-AR-N 4105/VDE V 0124, EN 50549-1, VDE 0126/UTE C 15/VFR:2019, RD 1699/RD 244/UNE 206006/UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, IEC60068, IEC 61683, EN 50530			
Safety / EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4			
Features				
DC connection	MC4 connector			
AC connection	OT terminal			
Display	LED digital display & Bluetooth + APP			
Communication	RS485, Optional: Wi-Fi, GPRS			

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)

Smart

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

Safe

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

Economic

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

Models:

S5-GC50K / S5-GC60K



360° View



DATASHEET

S5-GC(50-60)K

Models	50K	60K
Input DC		
Max. input voltage	1100 V	
Rated voltage	600 V	
Start-up voltage	195 V	
MPPT voltage range	180 - 1000 V	
Max. input current	5 × 32 A	6 × 32 A
Max. short circuit current	5 × 40 A	6 × 40 A
MPPT number / Max. input strings number	5 / 10	6 / 12
Output AC		
Rated output power	50 kW	60 kW
Max. apparent output power	55 kVA	66 kVA
Max. output power	55 kW	66 kW
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V	
Rated grid frequency	50 Hz / 60 Hz	
Rated grid output current	76.0 A / 72.2 A	91.2 A / 86.6 A
Max. output current	83.6 A	100.3 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)	
THDi	< 3%	
Efficiency		
Max. efficiency	98.7%	
EU efficiency	98.3%	
Protection		
DC reverse-polarity protection	Yes	
Short circuit protection	Yes	
Output over current protection	Yes	
Surge protection	DC Type II / AC Type II	
Grid monitoring	Yes	
Anti-islanding protection	Yes	
Temperature protection	Yes	
Strings monitoring	Yes	
I/V Curve scanning	Yes	
Multi peak scan	Yes	
Integrated AFCI 2.0	Optional	
Integrated PID recovery	Optional ⁽¹⁾	
Integrated DC switch	Yes	
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	G99, VDE-AR-N 4105/VDE V 0124, EN 50549-1, VDE 0126/UTE C 15/VFR:2019, RD 1699/RD 244/UNE 206006/UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, EIFS 2018.2, IEC 62116, IEC 61727, IEC60068, IEC 61683, EN 50530	
Safety / EMC standard	IEC 62109-1/-2, IEC62116 & IEC 61000-6-1/-2/-3/-4	
Features		
DC connection	MC4 connector	
AC connection	OT terminal (max. 70 mm²)	
Display	LCD	
Communication	RS485, USB, Optional: Wi-Fi, GPRS	

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

Economic

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

Models:

S5-GC80K



360° View



DATASHEET

S5-GC80K

Models	80K
Input DC	
Max. input voltage	1100 V
Rated voltage	600 V
Start-up voltage	195 V
MPPT voltage range	180 - 1000 V
Max. input current	9 × 32 A
Max. short circuit current	9 × 40 A
MPPT number / Max. input strings number	9 / 18
Output AC	
Rated output power	80 kW
Max. apparent output power	88 kVA
Max. output power	88 kW
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V
Rated grid frequency	50 Hz / 60 Hz
Rated grid output current	121.6 A / 115.5 A
Max. output current	133.7 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)
THDi	< 3%
Efficiency	
Max. efficiency	98.7%
EU efficiency	98.3%
Protection	
DC reverse-polarity protection	Yes
Short circuit protection	Yes
Output over current protection	Yes
Surge protection	DC Type II / AC Type II
Grid monitoring	Yes
Anti-islanding protection	Yes
Temperature protection	Yes
Strings monitoring	Yes
I/V Curve scanning	Yes
Integrated AFCI 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	G98 or G99, VDE-AR-N 4105/VDE-AR-N 4110/VDE V 0124, EN 50549-1, VDE 0126/UTE C 15/VFR:2019, CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530
Safety / EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4
Features	
DC connection	MC4 connector
AC connection	OT terminal (max. 185 mm²)
Display	LCD
Communication	RS485, Optional: Wi-Fi, GPRS, PLC

S5-GC(100-110)K

Solis Three Phase Grid-Tied Inverters

Efficient

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

Smart

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

Safe

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

Economic

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

Models:

S5-GC100K
S5-GC110K



DATASHEET

S5-GC(100-110)K

Models	100K	110K
Input DC		
Max. input voltage	1100 V	
Rated voltage	600 V	
Start-up voltage	195 V	
MPPT voltage range	180 - 1000 V	
Max. input current	10 × 32 A	
Max. short circuit current	10 × 40 A	
MPPT number / Max. input strings number	10 / 20	
Output AC		
Rated output power	100 kW	110 kW
Max. apparent output power	110 kVA	121 kVA
Max. output power	110 kW	121 kW
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V	
Rated grid frequency	50 Hz / 60 Hz	
Rated grid output current	152.0 A / 144.3 A	167.1 A / 158.8 A
Max. output current	167.1 A	183.8 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)	
THDi	< 3%	
Efficiency		
Max. efficiency	98.7%	
EU efficiency	98.3%	
Protection		
DC reverse-polarity protection	Yes	
Short circuit protection	Yes	
Output over current protection	Yes	
Surge protection	DC Type II / AC Type II (AC Type I optional)	
Grid monitoring	Yes	
Anti-islanding protection	Yes	
Temperature protection	Yes	
Strings monitoring	Yes	
I/V Curve scanning	Yes	
Integrated AFCI 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	VDE-AR-N 4105, VDE-AR-N 4110, VDE V 0124, VDE V 0126-1-1, UTE C15-712-1, NRS 097-1-2, G98, G99, EN 50549-1/-2, RD 1699, TOR, UNE 206006, UNE 206007-1, CEI 0-21, IEC61727, DEWA	
Safety / EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4	
Features		
DC connection	MC4 connector	
AC connection	OT terminal (max. 185 mm²)	
Display	LCD	
Communication	RS485, Optional: Wi-Fi, GPRS, PLC	

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

Solis Three Phase Grid-Tied Inverters

Efficient

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

Smart

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

Safe

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

Economic

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

Models:

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



DATASHEET

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

Models	80K	100K	110K
Input DC			
Max. input voltage	1100 V		
Rated voltage	600 V		
Start-up voltage	180 V		
MPPT voltage range	160 - 1000 V		
Max. input current	3 × (40 A / 32 A)	4 × (40 A / 32 A)	
Max. short circuit current	6 × 50 A	8 × 50 A	
MPPT number / Max. input strings number	6 / 12	8 / 16	
Output AC			
Rated output power	80 kW	100 kW	110 kW
Max. apparent output power	88 kVA	110 kVA	121 kVA
Max. output power	88 kW	110 kW	121 kW
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V		
Rated grid frequency	50 Hz / 60 Hz		
Rated grid output current	121.6 A / 115.5 A	152.0 A / 144.3 A	167.1 A / 158.8 A
Max. output current	133.7 A	167.1 A	183.8 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)		
THDi	< 3%		
Efficiency			
Max. efficiency	98.5%		
EU efficiency	98.0%		
Protection			
DC reverse-polarity protection	Yes		
Short circuit protection	Yes		
Output over current protection	Yes		
Surge protection	DC Type II / AC Type II		
Grid monitoring	Yes		
Anti-islanding protection	Yes		
Temperature protection	Yes		
Strings monitoring	Yes		
I/V Curve scanning	Yes		
Integrated AFCI 2.0	Optional		
Integrated PID recovery	Optional		
Integrated DC switch	Yes		
Integrated AC switch	Optional		
General Data			
Dimensions (W × H × D)	1065 × 585 × 363 mm (with or without AC switch)	1183 × 585 × 363 mm (with no AC switch); 1295 × 585 × 363 mm (with AC switch)	
Weight	78 kg	98 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	G99, IEC61727, EN50549-1/2, VDE4110		
Safety / EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4		
Features			
DC connection	MC4 connector		
AC connection	OT terminal (max. 240 mm²)		
Display	LCD		
Communication	RS485, Optional: Wi-Fi, GPRS, PLC		

S6-GC(80-125)K

Solis Three Phase Grid-Tied Inverters

Efficient

- 8/10 MPPTs, max. efficiency 98.7%
- > 150% DC/AC ratio
- String current up to 21A, perfectly match large current bifacial modules

Smart

- Supports export power control
- Intelligent string monitoring, smart I-V curve scan
- Remote firmware upgrade with simple operation

Safe

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

Economic

- Power line communication (PLC) (optional)
- Night time PID recovery function, increases overall system yield (optional)
- DC side supports "Y" connector

Models:

- S6-GC80K
- S6-GC100K
- S6-GC110K
- S6-GC125K



DATASHEET

S6-GC(80-125)K

Models	80K	100K	110K	125K
Input DC				
Max. input voltage	1100 V			
Rated voltage	600 V			
Start-up voltage	180 V			
MPPT voltage range	160 - 1000 V			
Max. input current	4 × (42 A / 36 A)	5 × (42 A / 36 A)		
Max. short circuit current	8 × 50 A	10 × 50 A		
MPPT number / Max. input strings number	8 / 16	10 / 20		
Output AC				
Rated output power	80 kW	100 kW	110 kW	125 kW
Max. apparent output power	88 kVA	110 kVA	121 kVA	125 kVA
Max. output power	88 kW	110 kW	121 kW	125 kW
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V			
Rated grid frequency	50 Hz / 60 Hz			
Rated grid output current	121.6 A / 115.5 A	152.0 A / 144.3 A	167.1 A / 158.8 A	189.9 A / 180.4 A
Max. output current	133.7 A	167.1 A	183.8 A	189.9 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)	1014 × 567 × 345 mm			
Weight	93 kg	96 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	G99, IEC61727, EN50549-1/2, VDE4110			
Safety / EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4			
Features				
DC connection	MC4 connector			
AC connection	OT terminal (max. 240 mm²)			
Display	LCD			
Communication	RS485, Optional: Wi-Fi, GPRS, PLC			

S6-GC3P150K07-NV-ND

Solis Three Phase Grid-Tied Inverters

Efficient

- 7 MPPTs, max. efficiency 98.8%
- > 150% DC/AC ratio
- Single MPPT maximum current 54A, perfectly match large current bifacial modules

Smart

- Supports export power control
- Intelligent string monitoring, smart I-V curve scan
- Remote firmware upgrade with simple operation

Safe

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

Economic

- Power line communication (PLC) (optional)
- Night time PID recovery function, increases overall system yield (optional)
- DC side supports "Y" connector

Models:

S6-GC3P150K07-NV-ND



DATASHEET

S6-GC3P150K07-NV-ND

Models	150K
Input DC	
Max. input voltage	1100 V
Rated voltage	600 V
Start-up voltage	180 V
MPPT voltage range	160 - 1000 V
Max. input current	7 × 54 A
Max. short circuit current	7 × 75 A
MPPT number / Max. input strings number	7 / 21
Output AC	
Rated output power	150 kW
Max. apparent output power	165 kVA
Max. output power	165 kW
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V
Rated grid frequency	50 Hz / 60 Hz
Rated grid output current	216.5 A / 227.9 A
Max. output current	250.6 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)
THDi	< 3%
Efficiency	
Max. efficiency	98.8%
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
General Data	
Dimensions (W × H × D)	1035.5 × 869 × 396 mm
Weight	105 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	G99, IEC61727, EN50549-1/2, VDE4110
Safety / EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4
Features	
DC connection	MC4 connector
AC connection	OT terminal (max. 400 mm²)
Display	LED indicator & Bluetooth + APP
Communication	RS485, Optional: Wi-Fi, GPRS, PLC

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 350kW. 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.

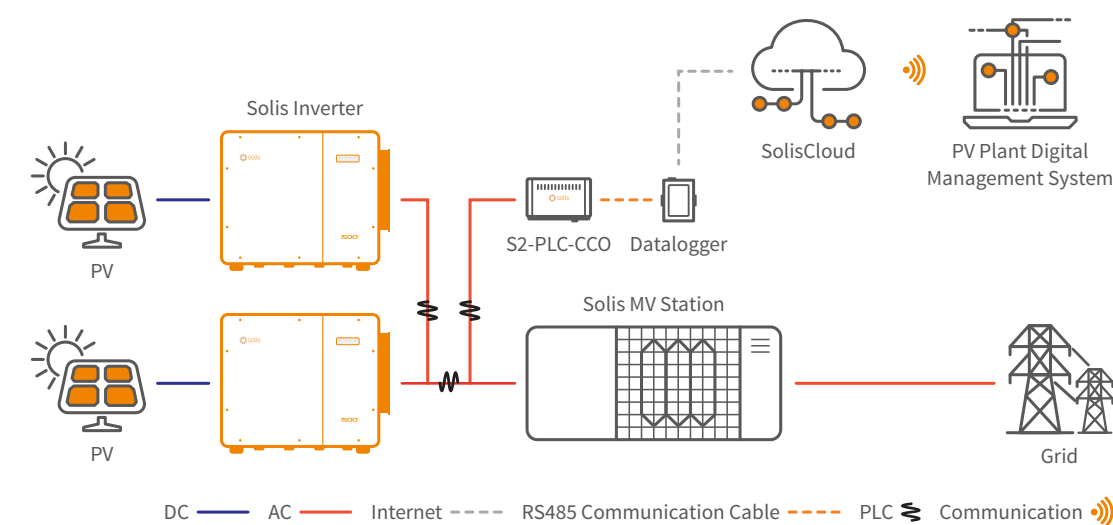
Models:

Solis-(215-255)K-EHV-5G
S6-GU350K-EHV

Output:

215 kW - 350 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
- Built-in PID recovery for better module performance
- Fuse free design, safe and maintenance free
- Globally recognised branded componentry for longer life

Economic

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

Models:

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



DATASHEET

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

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

S6-GU350K-EHV

Solis Three Phase Grid-Tied Inverters

Efficient

- 12/16 MPPTs, max. efficiency 99.0%
- > 150% DC/AC ratio
- Lower starting voltage, longer power generation time
- Wide MPPT current design, compatible with 182 and 210 series bifacial modules

Smart

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

Safe

- IP66, C5 Anti-Corrosion Level
- Built-in PID recovery for better module performance
- Fuse free design, safe and maintenance free

Economic

- Power line communication (PLC) (optional)
- Integrated tracking bracket power supply interface

Models:

S6-GU350K-EHV-M12
S6-GU350K-EHV-M16



DATASHEET

S6-GU350K-EHV

Models	350K-M12	350K-M16
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	12 × 40 A	16 × 30 A
Max. short circuit current	12 × 60 A	16 × 60 A
MPPT number / Max. input strings number	12 / 24	16 / 32
Output AC		
Rated output power	350 kW	
Max. apparent output power	350 kVA	
Rated grid voltage	3/PE, 800 V	
Grid voltage range	640 - 920 V	
Rated grid frequency	50 Hz / 60 Hz	
Max. output current	252.6 A	
Power factor	> 0.99 (0.8 leading - 0.8 lagging)	
THDi	< 3%	
Efficiency		
Max. efficiency	99.0%	
EU efficiency	98.7%	
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)	1175 × 945.5 × 446 mm	
Weight	134 kg	143 kg
Topology	Transformerless	
Self-consumption (night)	< 3 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	EN50549, G99, AS4777.2, VDE0126, IEC61727, VDE4110, CEA 2019	
Safety / EMC standard	IEC62109-1/-2, EN61000-6-2/-4	
Features		
DC connection	MC4-EVO2 connector	
AC connection	OT terminal (max. 400 mm²)	
Display	LED indicator & Bluetooth + APP	
Communication	RS485, Optional: PLC	

Solis-6300-MV

Solis MV Station

For 1500 V string inverter Solis 255K

Integrated delivery

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

Convenient installation

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

Reliable products

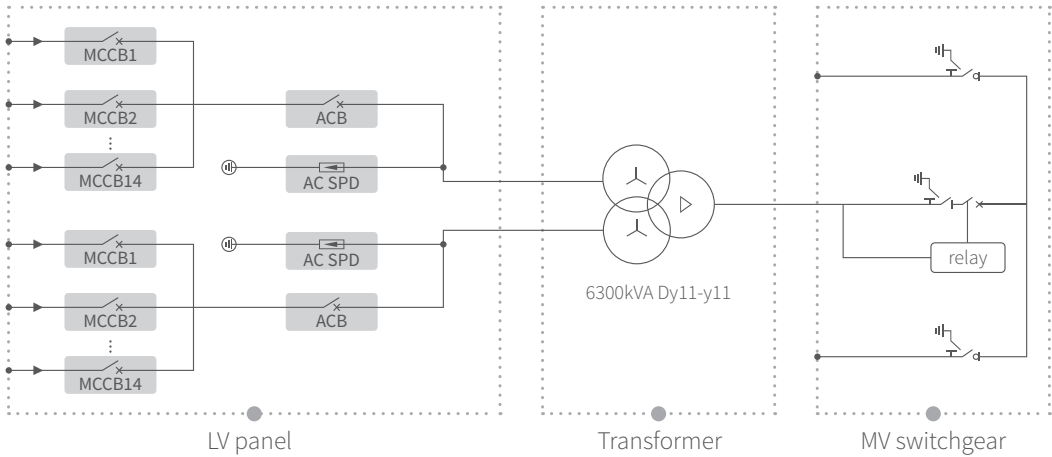
- LV panel, transformer and RMU to be placed independently
- Adopt international first-line brand equipment with reliable quality

Easy O&M

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



Circuit diagram



DATASHEET

Solis-6300-MV

Models	Solis-6300-MV
LV panel	
MCCB specification	250 A / 800 Vac / 3P, 14 × 2 pcs
ACB specification	3200 A / 800 Vac / 3P, 1 × 2 pcs
Connection form with transformer	Copper busbar
Transformer	
Transformer type	Oil immersed
Rated output power	6300 kVA @ 40°C
Max. output power	6930 kVA @ 40°C 3h
LV/MV voltage	0.8 kV / 20 - 35 kV
Max. input current	2577 A × 2
Tapping on HV	±2 × 2.5%
Vector group	Dy11y11
Frequency	50 Hz / 60 Hz
Cooling type	ONAN
Impedance	7.5%
Oil type	Mineral oil (Optional: plant oil)
Winding material	Al / Al (Optional: Cu / Cu)
Insulation class	A
Connection form with MV switchgear	Cable
MV Switchgear	
Type of insulate	SF6
Rated voltage	24 - 36 kV
Rated current	630 A
Internal arcing fault	20 kA / 1 s
Qty of feeder	3 feeders
Protection	
LV surge protection	AC type I + II
AC input protection	Circuit breaker
Transformer protection	Oil-temperature, oil-level, oil-pressure
Fire protection	Smoke detection, emergency lighting
General Data	
Dimensions (W × H × D)	6058 × 2896 × 2438 mm
Approximate weight	24 T
Operating ambient temperature range	-25 ~ +60°C
Max. operation altitude	1000 m (standard)
Auxiliary power supply	5 kVA / 230 V (Optional: max. 40 kVA)
UPS	1 kVA 30 min (Optional: max. 2 kVA 2h)
Degree of protection	IP54
Allowable relative humidity range	0 - 95%
Communication	RS485, Ethernet, Optical fiber
Compliance	IEC 60076, IEC 62271, IEC61439

Solis-9100-MV

Solis MV Station

For 1500 V string inverter Solis 350K

Integrated delivery

- Mainstream 9.1MW subarray, widely used globally
- 20 foot standard container delivery, easy to transport

Convenient installation

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

Reliable products

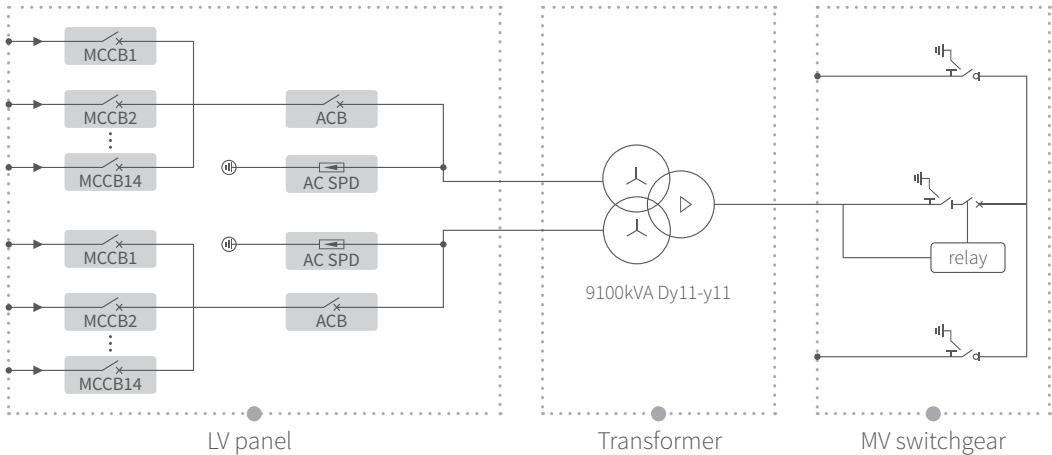
- LV panel, transformer and RMU to be placed independently
- Adopt international first-line brand equipment with reliable quality

Easy O&M

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



Circuit diagram



DATASHEET

Solis-9100-MV

Models	Solis-9100-MV
LV panel	
MCCB specification	400 A / 800 Vac / 3P, 14 × 2 pcs
ACB specification	4000 A / 800 Vac / 3P, 1 × 2 pcs
Connection form with transformer	Copper busbar
Transformer	
Transformer type	Oil immersed
Rated output power	9100 kVA @ 40°C
Max. output power	9800 kVA @ 40°C 3h
LV/MV voltage	0.8 kV / 10 - 35 kV
Max. input current	3536 A × 2
Tapping on HV	±2 × 2.5%
Vector group	Dy11y11
Frequency	50 Hz / 60 Hz
Cooling type	ONAN
Impedance	9.5%
Oil type	Mineral oil (Optional: plant oil)
Winding material	Al / Al (Optional: Cu / Cu)
Insulation class	A
Connection form with MV switchgear	Cable
MV Switchgear	
Type of insulate	SF6
Rated voltage	12 - 36 kV
Rated current	630 A
Internal arcing fault	20 kA / 1 s
Qty of feeder	3 feeders
Protection	
LV surge protection	AC type I + II
AC input protection	Circuit breaker
Transformer protection	Oil-temperature, oil-level, oil-pressure
Fire protection	Smoke detection, emergency lighting
General Data	
Dimensions (W × H × D)	6058 × 2896 × 2438 mm
Approximate weight	26 T
Operating ambient temperature range	-25 ~ +60°C
Max. operation altitude	1000 m (standard)
Auxiliary power supply	5 kVA / 230 V (Optional: max. 40 kVA)
UPS	1 kVA 30 min (Optional: max. 2 kVA 2h)
Degree of protection	IP54
Allowable relative humidity range	0 - 95%
Communication	RS485, Ethernet, Optical fiber
Compliance	IEC 60076, IEC 62271, IEC61439

Utility-scale Plant Case Study



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

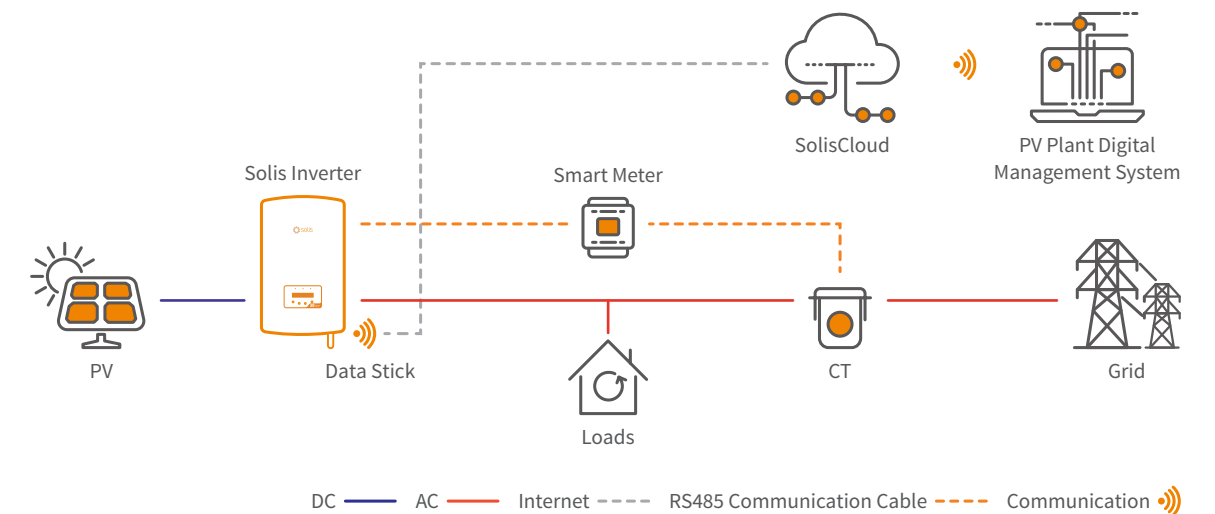
After the project is put into operation, the generating capacity is estimated to be 400,000,000 kWh/ year and delivers a reduction of 350, 000 tons of CO₂, 12,000 tons of SO₂, and 110,000 tons of Carbon dust. Solis commercial scale string inverters boast an abundance of technological features which can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

Export Power Management Solutions

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

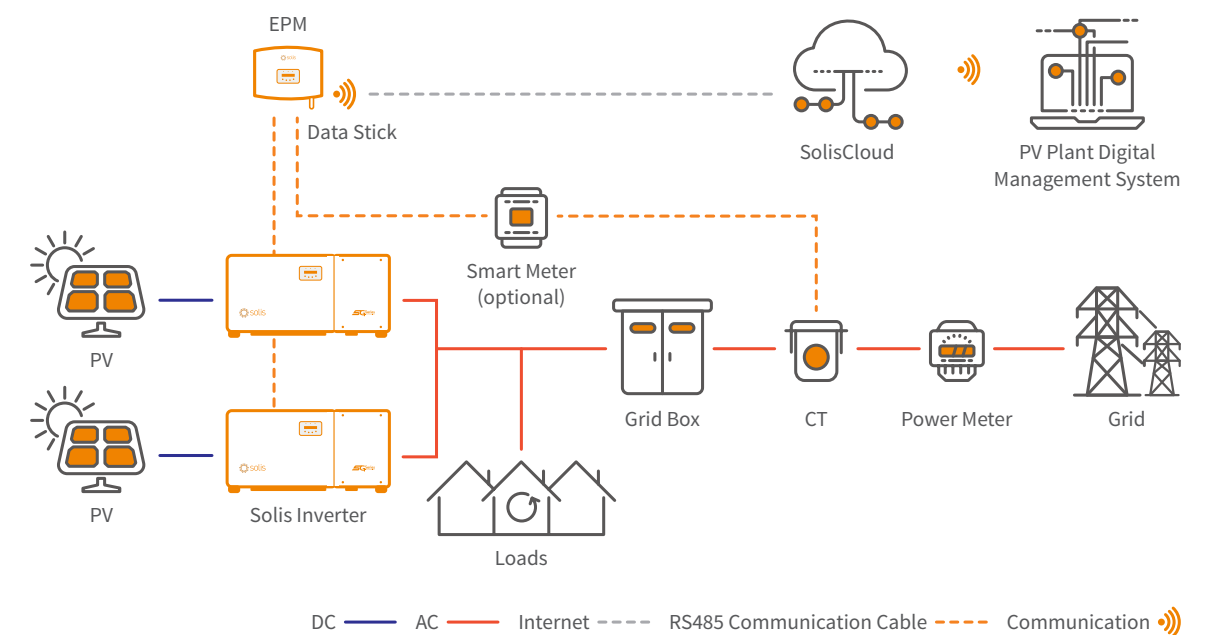
Export Power Management Solutions - Single-inverter System

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



Export Power Management Solution - Multi-inverter System

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



Solis-EPM-5G

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:

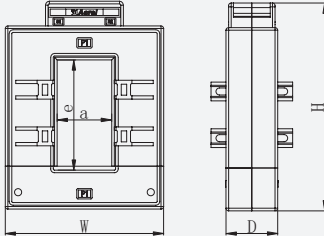
Solis-EPM1-5G

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)	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)

S3-GPRS-ST



S3-GPRS-ST

S2-RF-LINK



S2-RF-ST-4Pin S2-RF-ST-USB S2-RF-Gateway

S3-Logger



S3-Logger

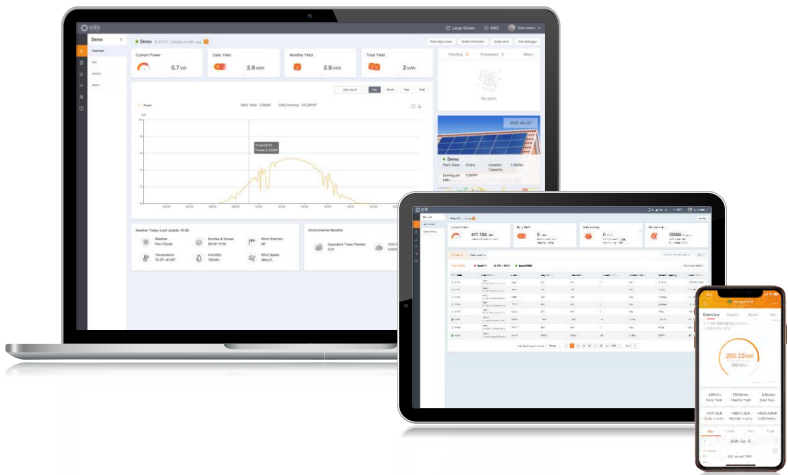


SolisCloud

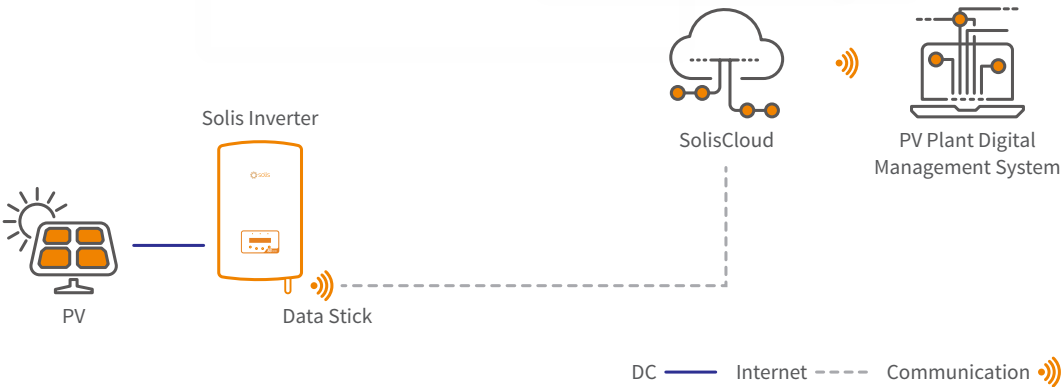
New generation Solis PV monitoring platform

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

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



Intelligent Monitoring Solution - SolisCloud



Advanced Cloud Platform

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

Efficient O & M

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

Multiple Plant Management

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

Full Screen Display Mode

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

Download the App



Accessories available:

- | | |
|------------|------------|
| S2-WL-ST | S1-W4G-ST |
| S3-WiFi-ST | S3-GPRS-ST |
| S4-WiFi-ST | S2-RF-LINK |
| S5-WiFi-ST | S3-Logger |

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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
 - One-key assignment of inverter address, efficient and labor-saving

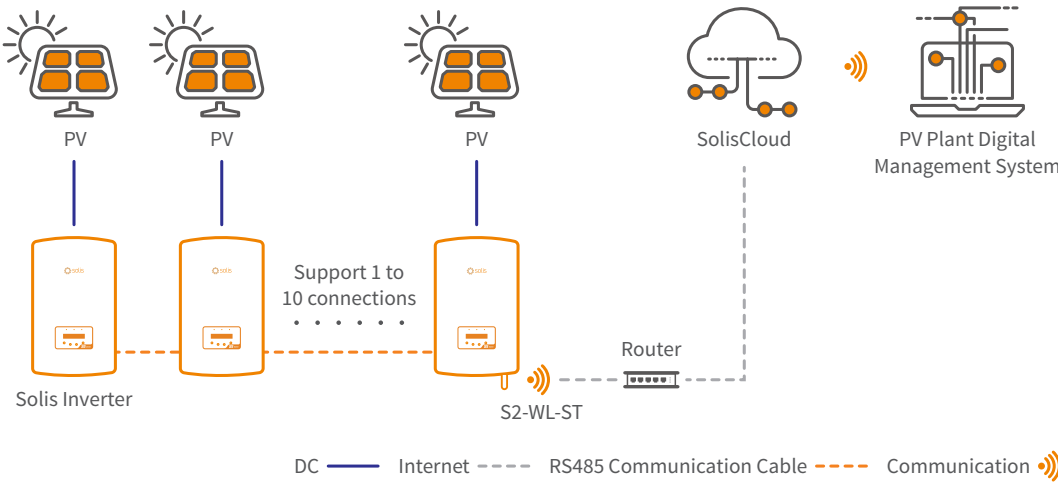


S2-WL-ST (4 Pin)



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.

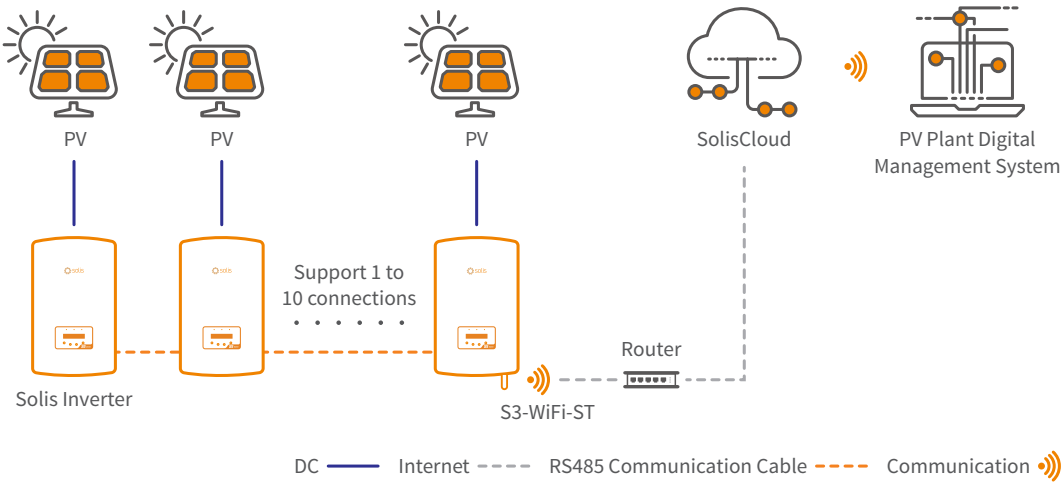
Features:

- 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.

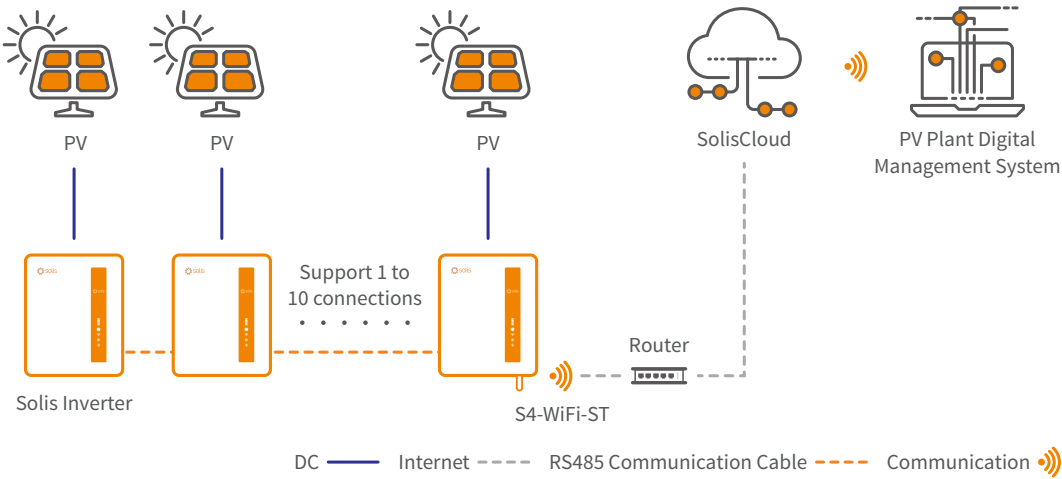
Features:

- 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

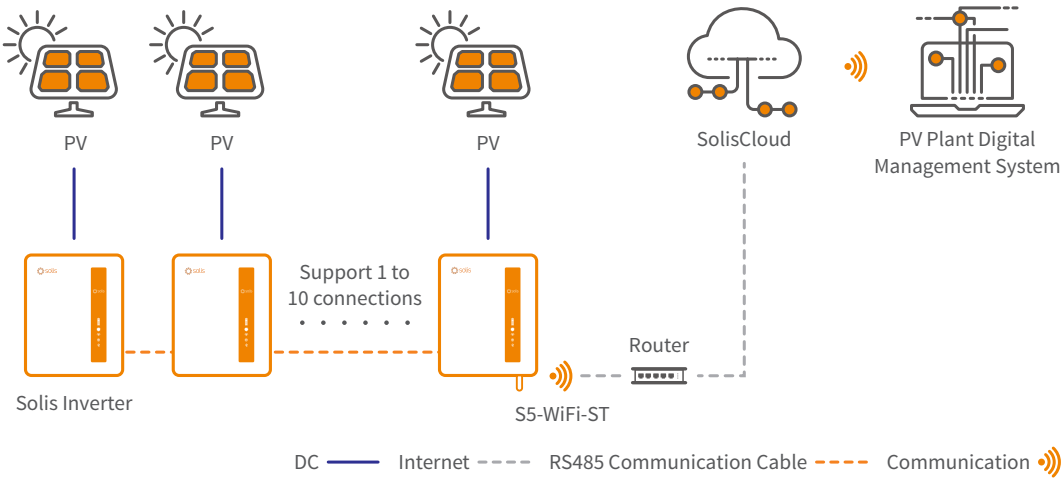


S5-WiFi-ST-4Pin



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

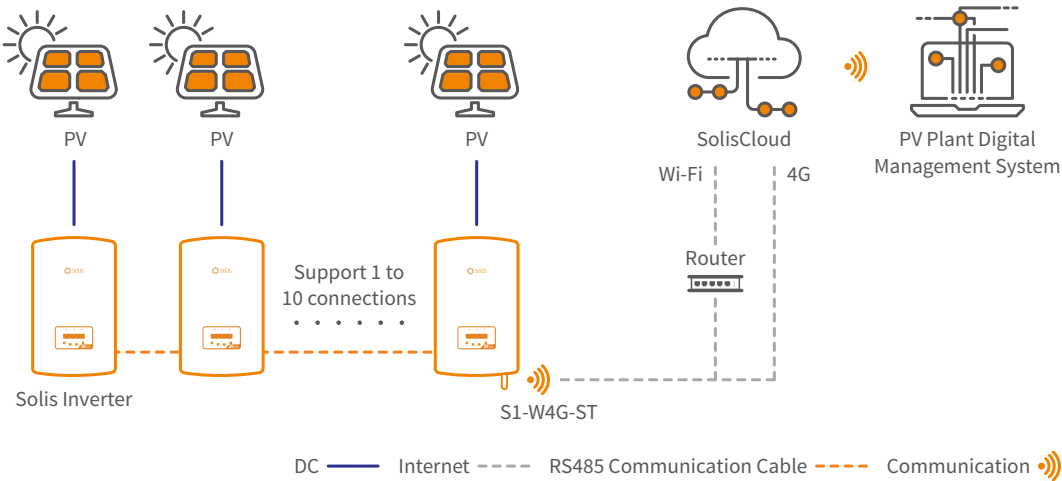


S1-W4G-ST (4 Pin)



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.

S3-GPRS-ST

Solis Data Loggers

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

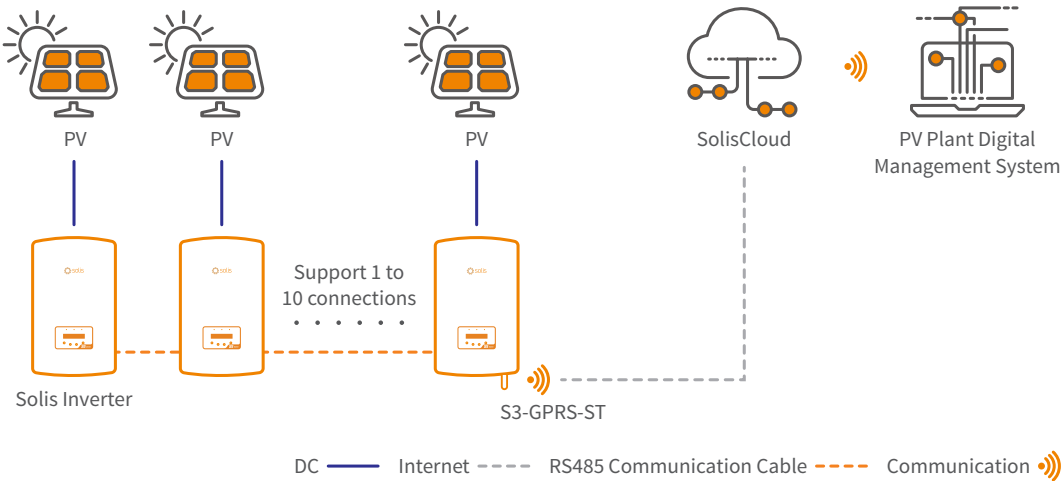
Features:

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



S3-GPRS-ST

Intelligent Monitoring Solution - S3-GPRS-ST



DATASHEET

S3-GPRS-ST

Models	S3-GPRS-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	850 / 900 / 1800 / 1900 MHz
Configuration method	APP / WEB
Electrical	
Operating voltage	DC 5 V (+ / -5%)
Operating power consumption	≤ 5 W
Environment	
Operating ambient temperature range	-30 ~ +65°C
Operating humidity	5% - 95%, relative humidity, non-condensing
Storage temperature	-40 ~ +70°C
Storage humidity	< 40%
Max. operation altitude	4000 m
Protection degree	IP65
Mechanical	
Dimensions (L × W × H)	133 × 44 × 44 mm
Installation method	Externally Insert + Twist Lock
Weight	85 g
Others	
Certification	CE

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

S2-RF-LINK

Solis Data Loggers

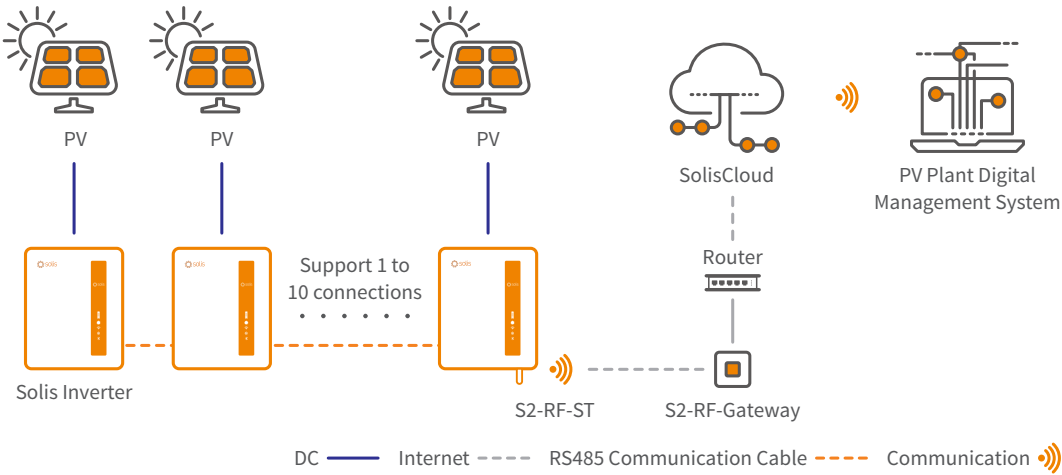
Up to 10 inverters can be connected to S2-RF-LINK. Insert the data logger directly into the inverter port , the gateway uses wired ethernet to connect to the home router, and transmits data to SolisCloud. SolisCloud, the Solis monitoring platform, allows for remote system monitoring and control. The 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



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.

S3-Logger

Solis Data Loggers

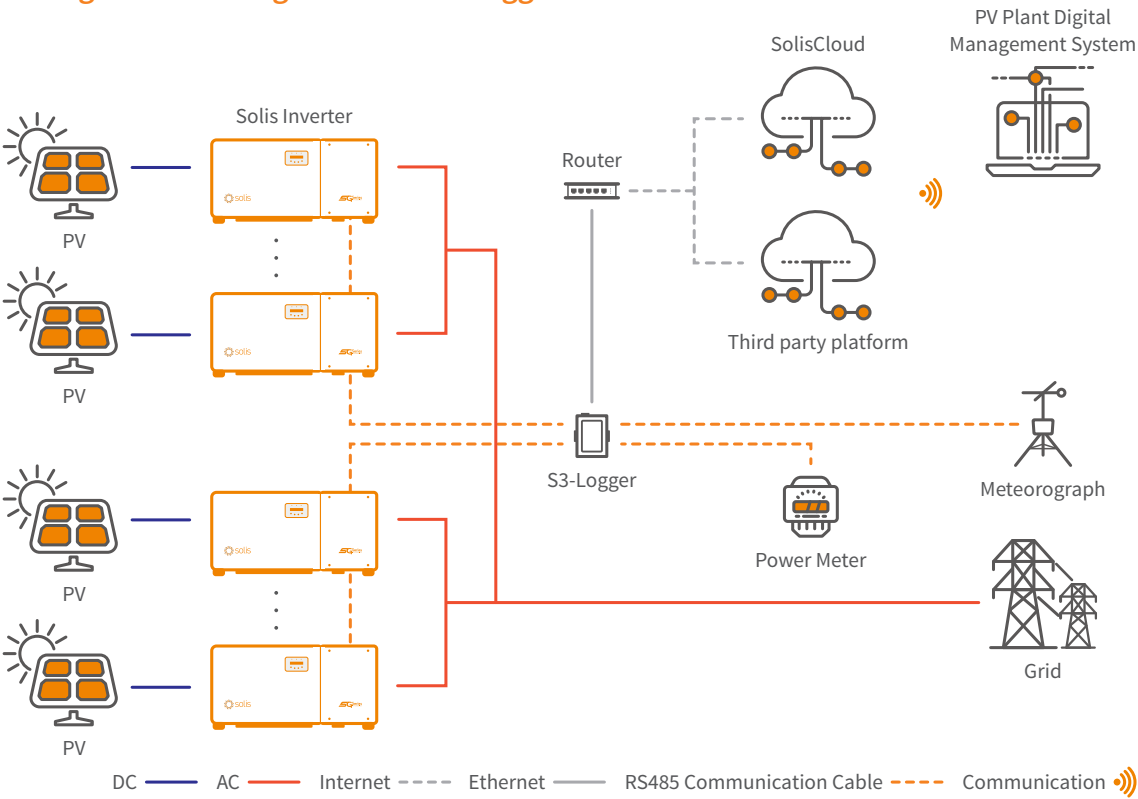
S3-Logger is a data acquisition and protocol conversion device applied to PV equipment in PV power plants, which can support access of meters, weather stations and other equipment.

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



Intelligent Monitoring Solution - S3-Logger



DATASHEET

S3-Logger

Models	S3-Logger		S3-Logger-EPM
Communication			
Supported device type	Solis inverter		
Number of connected inverters ⁽¹⁾	Each RS485 PORT ≤ 15		
Data collection intervals	5 minutes		
Status indicator	2 LED Indicator Lights		
RS485	COM × 4, 1200 ~ 19200 bps, communication distance ≤ 1000 m		
Ethernet communication	LAN × 1, 10 / 100 Mbps adaptive, communication distance ≤ 100 m		
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			

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