



Solis: A Global Top 3 PV Inverter Manufacturer

Developing technology to
power the world with clean energy

**COMPANY
MISSION**



COMPANY PROFILE

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

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



NO.1

Ranked No.1 in Global Residential Single-Phase Inverter Shipments
Source: Wood Mackenzie 2024

TOP 3

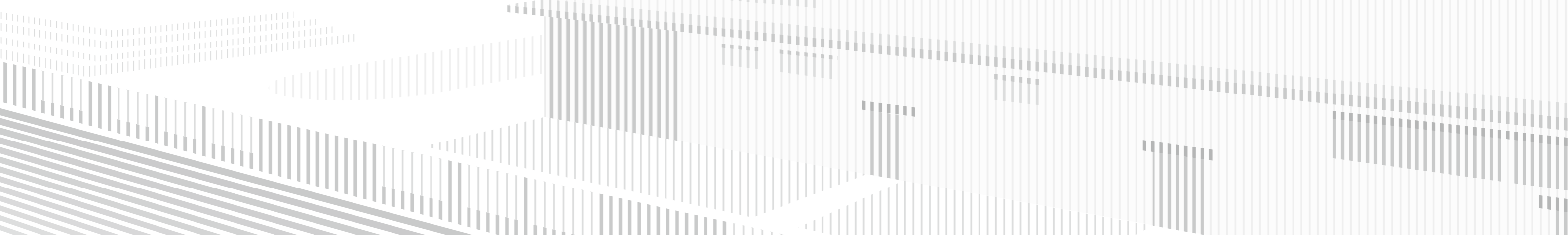
A Global Top 3 PV Inverter Manufacturer

10 years

EUPD Research Top Brand PV Inverters 2016-2025

80GW+

Manufacturing Capacity



Why Solis?

Powered by Technology, Driven by Service.

NO.1

Ranked No.1 in Global Residential Single-Phase Inverter Shipments
Source: Wood Mackenzie 2024

TOP 3

A Global Top 3 PV Inverter Manufacturer

10 years

EUPD Research Top Brand PV Inverters 2016-2025

21 years

A driving force in renewable energy since 2005

120GW+

Total global shipments

CNAS & ILAC

National Laboratory Qualification

The useful life projections are at or near the TOP of the string inverter life projections.

Source: DNV-GL

2005

Solis founded by Wang Yiming

2006

Second inverter company worldwide to obtain UK G83 certification

2008

Construction begins on a 10-acre site in the Coastal Industrial Park

2009

First Asian inverter company to achieve US UL1741 certification

2010

Second Chinese inverter company to obtain Australian AS4777/AS3100 certification

2011

Hosted the International IEC Standards Conference

2016

Received first EUPD "Top PV Inverter Brand" award

2019

Listed on the Shenzhen Stock Exchange (Stock Code: 300763)

Ranked among the top3 in Asia in BloombergNEF's Global Inverter Bankability Rankings

2020

Set a new record for high-power residential module current compatibility

Certified as a National Green Factory

2021

Ranked as the world's third-largest PV inverter manufacturer

Awarded Asia's Best Employer Award

2022

Achieved CNAS-certified National Laboratory status

2023

Ranked No.1 in global residential single-phase inverter shipments

Ranked as the world's third-largest PV inverter manufacturer for three consecutive years

Recognized as a BloombergNEF Tier 1 global PV inverter manufacturer

2024

Ranked among the Global Top 500 New Energy Companies for four consecutive years

2025

Won the EUPD "Top PV Inverter Brand" award for ten consecutive years



锦浪科技

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



53 Service Centers

With 53 offices and service centers around the world, including the UK, France, Italy, Netherlands, Spain, Poland, Sweden, Turkey, Germany, Lithuania, Switzerland, Greece, Portugal, Ireland, Austria, Romania, Ukraine, Hungary, Latvia, Finland, Denmark, Croatia, Balkans, Bulgaria, Czechia, Slovenia, South Africa, Kenya, Nigeria, Ghana, China, India, Indonesia, Korea, Myanmar, Malaysia, Philippines, Pakistan, Singapore, Sri Lanka, Thailand, Vietnam, Bangladesh, Israel, Lebanon, Yemen, Iraq, Australia, Brazil, USA, Canada, Mexico and Chile, Solis has a well-established and expanding global presence.

HQ Service Centers



GLOBAL REACH LOCAL EXPERTISE

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Residential Energy Storage Solutions

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

P47

Commercial Energy Storage Solutions

Solis commercial storage products are highly integrated three-phase energy storage inverters, they have 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 15kW - 200kW, 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.

P121

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.

Residential Energy Storage Solutions

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

Models:

S5-EH1P(3-6)K-L (Smart)
 S6-EH1P(3-8)K-L-PLUS, S6-EH1P(9-10)K-L-PLUS(21A)
 S6-EH1P(9.9-18)K03-NV-YD-L
 S6-EH2P(5-8)K02-SV-YD-L
 S6-EH2P(9.6-16)K03-SV-YD-L-US
 S6-EH2P(10-18)K03-SV-YD-L
 S6-EH3P(5-18)K02-NV-YD-L
 S6-EH3P(7-10)K02-LV-YD-L
 S6-EH3P(3-10)K-H, S6-EH3P12K-H-EU(21A)
 S6-EH3P(12-20)K-H
 S5-EA1P3K-L
 S6-EA1P(3.6-6)K-L
 S6-EA3P(5-10)KAA-NV-ND-H
 S6-EA3P(5-10)KAA-NV-YD-H-PRO
 S6-EO1P(4-6)K-48
 S6-EO1P(4-5)K-48-EU

Output:

3 kW - 20 kW

S5-EH1P(3-6)K-L (Smart)

Solis Single Phase Low Voltage Energy Storage Inverters

Smart Energy Management

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

Flexible & Scalable

- Compatible with mainstream lithium and lead-acid batteries

High Performance

- 160% PV input capacity to maximize solar energy utilization

Simple & Fast Configuration

- 7-inch large screen uses U.S.-made ZEITLER industrial-grade components

Models:

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

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

S5-EH1P6K-L



DATASHEET

| 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 | 17.9 kg | | 18.1 kg | | |
| Topology | Non-isolated (PV), Isolated (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-EH1P(3-8)K-L-PLUS, S6-EH1P(9-10)K-L-PLUS(21A)

Solis Single Phase Low Voltage Energy Storage Inverters

Features:

- Supports PV input up to 160% of the inverter's rated DC power, maximising solar utilisation
- Supports up to 21A PV input current, compatible with future higher-power PV modules
- 200% overload for 10s in off-grid mode, ensuring stable startup of motors, water pumps and air conditioners
- Seamless on/off-grid switching in under 10ms, guaranteeing an uninterrupted power supply
- More battery options, compatible with any battery (between 40V-60V)
- Supports existing PV grid-tied power connection for export control and off-grid use
- Multiple methods of generator connection and auto control, enabling flexible local deployment
- Support max 6 units in parallel, expanding system capacity
- Smart Load management, extending backup time for critical loads
- Customizable battery backup level for uninterrupted power
- Supports PV-only off-grid operation, reducing upfront costs
- SolisCloud: Smart remote control, AI optimisation, and instant troubleshooting - all in one platform
- 7-inch industrial-grade LCD screen, providing a larger, user-friendly interface for local operation
- Ingress protection IP66, for operation in harsh conditions

Models:

S6-EH1P3K-L-PLUS / S6-EH1P3.6K-L-PLUS / S6-EH1P4.6K-L-PLUS
 S6-EH1P5K-L-PLUS / S6-EH1P6K-L-PLUS / S6-EH1P8K-L-PLUS
 S6-EH1P9K-L-PLUS(21A) / S6-EH1P10K-L-PLUS(21A)



DATASHEET

| Models | 3K | 3.6K | 4.6K | 5K | 6K | 8K | 9K(21A) | 10K(21A) |
|---|--|-----------------|---------------|-----------------|-----------------------------------|-----------------|-----------------|-----------------|
| Input DC (PV side) | | | | | | | | |
| Recommended max. PV array size | 6 kW | 7.2 kW | 9.2 kW | 10 kW | 12 kW | 16 kW | 18 kW | 20 kW |
| Max. usable PV input power | 4.8 kW | 5.76 kW | 7.36 kW | 8 kW | 9.6 kW | 12.8 kW | 14.4 kW | 16 kW |
| Max. input voltage | 500 V | | | | | | | |
| Rated voltage | 330 V | | | | | | | |
| Start-up voltage | 90 V | | | | | | | |
| MPPT voltage range | 90 - 435 V | | | | | | | |
| Max. input current | 16 A / 16 A | | 16 A | | 32 A / 32 A | | 42 A / 42 A | |
| Max. current per DC input | 16 A | | | | | | | |
| Max. short circuit current | 20 A / 20 A | | 20 A / 20 A | | 40 A / 40 A | | 48 A / 48 A | |
| MPPT number / Max. input strings number | 2 / 2 | | 2 / 2 | | 2 / 2 | | 2 / 4 | |
| Battery | | | | | | | | |
| Battery type | Li-ion / Lead-acid | | | | | | | |
| Battery voltage range | 40 - 60 V | | | | | | | |
| Max. charge / discharge current | 70 A | 80 A | 105 A | 112 A | 135 A | 190 A | 200 A | 210 A |
| Number of battery port / Number of BMS port | 1 / 1 | | | | | | | |
| Communication | CAN / RS485 | | | | | | | |
| Output AC (Grid side) | | | | | | | | |
| Rated output power | 3 kW | 3.6 kW | 4.6 kW | 5 kW | 6 kW | 8 kW | 9 kW | 10 kW |
| Max. apparent output power | 3 kVA | 3.6 kVA | 4.6 kVA | 5 kVA | 6 kVA | 8 kVA | 9 kVA | 10 kVA |
| Rated grid voltage | L/N/PE, 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 / 21.8 A | 27.3 A / 26.1 A | 36.4 A / 34.8 A | 40.9 A / 39.1 A | 45.5 A / 43.5 A |
| Power factor | > 0.99 (0.8 leading - 0.8 lagging) | | | | | | | |
| THDi | < 3% | | | | | | | |
| Input AC (Grid side) | | | | | | | | |
| Max. input power | 4.6 kW | 5.5 kW | 6.4 kW | 7 kW | 8.8 kW | 11 kW | 13.2 W | 14.3 W |
| Input voltage range | 187 - 253 V | | | | | | | |
| Max. input current | 21 A | 25 A | 29 A | 32 A | 40 A | 50 A | 60 A | 65 A |
| Output AC (Back-up) | | | | | | | | |
| Rated output power | 3 kW | 3.6 kW | 4.6 kW | 5 kW | 6 kW | 8 kW | 9 kW | 10 kW |
| Max. apparent output power | 2 times of rated power, 10 s | | | | | | | |
| Back-up switch time | < 10 ms | | | | | | | |
| Rated output voltage | L/N/PE, 220 V / 230 V | | | | | | | |
| Rated frequency | 50 Hz / 60 Hz | | | | | | | |
| Rated output current | 13.7 A / 13.1 A | 16.4 A / 15.7 A | 20.9 A / 20 A | 22.8 A / 21.8 A | 27.3 A / 26.1 A | 36.4 A / 34.8 A | 40.9 A / 39.1 A | 45.5 A / 43.5 A |
| Max. AC passthrough current | 35 A | 35 A | 40 A | 40 A | 40 A | 50 A | 60 A | 65 A |
| THDv (@linear load) | < 2% | | | | | | | |
| Input AC (Generator side) | | | | | | | | |
| Max. input power | 3 kW | 3.6 kW | 4.6 kW | 5 kW | 6 kW | 8 kW | 9 kW | 10 kW |
| Rated input current | 13.7 A / 13.1 A | 16.4 A / 15.7 A | 20.9 A / 20 A | 22.8 A / 21.8 A | 27.3 A / 26.1 A | 36.4 A / 34.8 A | 40.9 A / 39.1 A | 45.5 A / 43.5 A |
| Rated input voltage | L/N/PE, 220 V / 230 V | | | | | | | |
| Rated input frequency | 50 Hz / 60 Hz | | | | | | | |
| Efficiency | | | | | | | | |
| Max. efficiency | 96.2% | | | | | | | |
| EU efficiency | 96.1% | | | | | | | |
| BAT charged by PV / AC max. efficiency | 95.3% / 93.9% | | | | | | | |
| Battery discharged efficiency | 93.8% | | | | | | | |
| Protection | | | | | | | | |
| Surge protection | Yes | | | | | | | |
| Output over current protection | Yes | | | | | | | |
| Insulation resistance monitoring | Yes | | | | | | | |
| Residual current detection | Yes | | | | | | | |
| Integrated PV switch | Yes | | | | | | | |
| DC reverse-polarity protection | Yes (PV only) | | | | | | | |
| Protection class / Over voltage category | I / II (PV and BAT), III (MAINS and BACKUP and GEN) | | | | | | | |
| Integrated AFCI 2.0 | Optional | | | | | | | |
| Anti-islanding protection | Yes | | | | | | | |
| General Data | | | | | | | | |
| Dimensions (W × H × D) | 335 × 560 × 253 mm | | | | | | | |
| Weight | 23 kg | | 23.5 kg | | 23.8 kg | | | |
| Inverter topology | Non-isolated (PV), Isolated (Battery) | | | | | | | |
| Self-consumption | < 40 W | | | | | | | |
| Operating temperature range | -25 ~ +60°C | | | | | | | |
| Relative humidity | 0 - 100% | | | | | | | |
| Ingress protection | IP66 | | | | | | | |
| Noise emission (typical) | < 40 dB(A) | | | | < 65 dB(A) | | | |
| Cooling concept | Natural cooling | | | | Intelligent redundant fan-cooling | | | |
| Max. operation altitude | 3000 m | | | | | | | |
| Grid connection standard | NRS 097-2-1, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, EN 50549-1, MEA, PEA, NBR 16149, NBR 16150, G98, G99, CEI 0-21, NTS 631 TypeA | | | | | | | |
| Safety / EMC standard | IEC/EN 62109-1/-2, EN 61000-6-2/-3 | | | | | | | |
| Features | | | | | | | | |
| PV connection | MC4 connector | | | | | | | |
| Battery connection | Terminal Block | | | | | | | |
| AC connection | Terminal Block | | | | | | | |
| Display | 7.0" LCD display & Bluetooth + APP | | | | | | | |
| Communication interface | Standard: WIFI+LAN+Bluetooth, CAN-BMS, CAN-Parallel×2, RS485-Meter, RS485, DRM, DI, DO×2; Optional: 4G | | | | | | | |

S6-EH1P(9.9-18)K03-NV-YD-L

Solis Single Phase Low Voltage Energy Storage Inverters

Features:

- Supports PV input up to 160% of the inverter's rated DC power, maximising solar utilisation
- Supports up to 20A PV input current, compatible with future higher-power PV modules
- 200% overload for 10s in off-grid mode, ensuring stable startup of motors, water pumps and air conditioners
- Seamless on/off-grid switching in under 10ms, guaranteeing an uninterrupted power supply
- More battery options, compatible with any battery (between 40V-60V)
- Supports existing PV grid-tied power connection for export control and off-grid use
- Multiple methods of generator connection and auto control, enabling flexible local deployment
- Support max 6 units in parallel, expanding system capacity
- Smart Load management, extending backup time for critical loads
- Customizable battery backup level for uninterrupted power
- Supports PV-only off-grid operation, reducing upfront costs
- SolisCloud: Smart remote control, AI optimisation, and instant troubleshooting - all in one platform
- 7-inch industrial-grade LCD screen, providing a larger, user-friendly interface for local operation
- Ingress protection IP66, for operation in harsh conditions

Models:

- S6-EH1P9.9K03-NV-YD-L
- S6-EH1P12K03-NV-YD-L
- S6-EH1P14K03-NV-YD-L
- S6-EH1P16K03-NV-YD-L
- S6-EH1P18K03-NV-YD-L



DATASHEET

| Models | 9.9K | 12K | 14K | 16K | 18K |
|---|--|-----------------|-----------------|-------------------|--------------------|
| Input DC (PV side) | | | | | |
| Recommended max. PV array size | 19.8 kW | 24 kW | 28 kW | 32 kW | 36 kW |
| Max. usable PV input power | 15.8 kW | 19.2 kW | 22.4 kW | 25.6 kW | 28.8 kW |
| Max. input voltage | 550 V | | | | |
| Rated voltage | 380 V | | | | |
| Start-up voltage | 100 V | | | | |
| MPPT voltage range | 80 - 520 V | | | | |
| Max. input current | 40 A / 40 A / 40 A | | | | 42 A / 42 A / 42 A |
| Max. current per DC input | 20 A | | | | |
| Max. short circuit current | 50 A / 50 A / 50 A | | | | |
| MPPT number / Max. input strings number | 3 / 6 | | | | |
| Battery | | | | | |
| Battery type | Li-ion / Lead-acid | | | | |
| Battery voltage range | 40 - 60 V | | | | |
| Max. charge / discharge current | 208 A | 250 A | 290 A | 290 A | 320 A |
| Number of battery port / Number of BMS port | 1 / 1 | | | | |
| Communication | CAN / RS485 | | | | |
| Output AC (Grid side) | | | | | |
| Rated output power | 9.9 kW | 12 kW | 14 kW | 16 kW | 18 kW |
| Max. apparent output power | 9.9 kVA | 12 kVA | 14 kVA | 16 kVA | 18 kVA |
| Rated grid voltage | L/N/PE, 220 V / 230 V | | | | |
| Rated grid frequency | 50 Hz / 60 Hz | | | | |
| Rated grid output current | 45 A / 43.1 A | 54.5 A / 52.2 A | 63.6 A / 60.9 A | 72.7 A / 69.6 A | 81.8 A / 78.2 A |
| Power factor | > 0.99 (0.8 leading - 0.8 lagging) | | | | |
| THDi | < 3% | | | | |
| Input AC (Grid side) | | | | | |
| Max. input power | 14.8 kW | 18 kW | 21 kW | 24 kW | 27 kW |
| Input voltage range | 187 - 253 V | | | | |
| Max. input current | 67.5 A / 64.5 A | 81.8 A / 78.3 A | 95.5 A / 91.3 A | 109.1 A / 104.3 A | 122.7 A / 117.4 A |
| Output AC (Back-up) | | | | | |
| Rated output power | 9.9 kW | 12 kW | 14 kW | 16 kW | 18 kW |
| Max. apparent output power | 2 times of rated power, 10 s | | | | |
| Back-up switch time | < 10 ms | | | | |
| Rated output voltage | L/N/PE, 220 V / 230 V | | | | |
| Rated frequency | 50 Hz / 60 Hz | | | | |
| Rated output current | 45 A / 43.1 A | 54.5 A / 52.2 A | 63.6 A / 60.9 A | 72.7 A / 69.6 A | 81.8 A / 78.2 A |
| Max. AC passthrough current | 90 A | | | | |
| THDv (@linear load) | < 3% | | | | |
| Input AC (Generator side) | | | | | |
| Max. input power | 9.9 kW | 12 kW | 14 kW | 16 kW | 18 kW |
| Rated input current | 45 A / 43.1 A | 54.5 A / 52.2 A | 63.6 A / 60.9 A | 72.7 A / 69.6 A | 81.8 A / 78.2 A |
| Rated input voltage | L/N/PE, 220 V / 230 V | | | | |
| Rated input frequency | 50 Hz / 60 Hz | | | | |
| Efficiency | | | | | |
| Max. efficiency | 97.6% | | | | |
| EU efficiency | 97.0% | | | | |
| BAT charged by PV / AC max. efficiency | > 94.9% / > 94.33% | | | | |
| Battery discharged efficiency | 93.51% | | | | |
| Protection | | | | | |
| Surge protection | Yes | | | | |
| Output over current protection | Yes | | | | |
| Insulation resistance monitoring | Yes | | | | |
| Residual current detection | Yes | | | | |
| Integrated PV switch | Yes | | | | |
| DC reverse-polarity protection | Yes (PV only) | | | | |
| Protection class / Over voltage category | I / II (PV and BAT), III (MAINS and BACKUP and GEN) | | | | |
| Integrated AFCI 2.0 | Optional | | | | |
| Anti-islanding protection | Yes | | | | |
| General Data | | | | | |
| Dimensions (W × H × D) | 459 × 845 × 313 mm | | | | |
| Weight | 55.5 kg | | | | |
| Inverter topology | Non-isolated (PV), Isolated (Battery) | | | | |
| Self-consumption | < 40 W | | | | |
| Operating temperature range | -25 ~ +60°C | | | | |
| Relative humidity | 0 - 100% | | | | |
| Ingress protection | IP66 | | | | |
| Noise emission (typical) | < 65 dB(A) | | | | |
| Cooling concept | Intelligent redundant fan-cooling | | | | |
| Max. operation altitude | 4000 m | | | | |
| Grid connection standard | NRS 097-2-1, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, EN50549-1 | | | | |
| Safety / EMC standard | IEC/EN 62109-1/-2, EN 61000-6-2/-3 | | | | |
| Features | | | | | |
| PV connection | MC4 connector | | | | |
| Battery connection | Terminal Block | | | | |
| AC connection | Terminal Block | | | | |
| Display | 7.0" LCD display & Bluetooth + APP | | | | |
| Communication interface | Standard: WIFI+LAN+Bluetooth, CAN-BMS, CAN-Parallel × 2, RS485-Meter, RS485, DRM, DI, DO × 2; Optional: 4G | | | | |

S6-EH2P(5-8)K02-SV-YD-L

Solis Split Phase Low Voltage Energy Storage Inverters

Applicable to Brazil and Latin America

Features:

- Supports PV input up to 160% of the inverter's rated DC power, maximising solar utilisation
- Supports up to 21A PV input current, compatible with future higher-power PV modules
- 200% overload for 10s in off-grid mode, ensuring stable startup of motors, water pumps and air conditioners
- Seamless on/off-grid switching in under 10ms, guaranteeing an uninterrupted power supply
- Support split-phase unbalanced output, each phase supports output max. 50% rated inverter power
- More battery options, compatible with any battery (between 40V-60V)
- Supports existing PV grid-tied power connection for export control and off-grid use
- Multiple methods of generator connection and auto control, enabling flexible local deployment
- Support max 6 units in parallel, for expanding system capacity
- Smart Load management, extending backup time for critical loads
- Customizable battery backup level for uninterrupted power
- PV only off grid mode, to reduce the initial investment cost
- 7-inch industrial-grade LCD screen, providing a larger, user-friendly interface for local operation
- Ingress protection IP66, adapting to harsh ambient conditions

Models:

S6-EH2P5K02-SV-YD-L

S6-EH2P6K02-SV-YD-L

S6-EH2P7.5K02-SV-YD-L

S6-EH2P8K02-SV-YD-L



DATASHEET

| Models | 5K | 6K | 7.5K | 8K |
|---|---|-----------------|-----------------|-----------------|
| Input DC (PV side) | | | | |
| Recommended max. PV array size | 10 kW | 12 kW | 16 kW | 16 kW |
| Max. usable PV input power | 8 kW | 9.6 kW | 12.8 kW | 12.8 kW |
| Max. input voltage | 500 V | | | |
| Rated voltage | 330 V | | | |
| Start-up voltage | 90 V | | | |
| MPPT voltage range | 90 - 435 V | | | |
| Max. input current | 21 A / 21 A | 21 A / 42 A | 42 A / 42 A | |
| Max. current per DC input | 21 A | | | |
| Max. short circuit current | 24 A / 24 A | 24 A / 48 A | 48 A / 48 A | |
| MPPT number / Max. input strings number | 2 / 2 | 2 / 3 | 2 / 4 | |
| Battery | | | | |
| Battery type | Li-ion / Lead-acid | | | |
| Battery voltage range | 40 - 60 V | | | |
| Max. charge / discharge current | 112 A | 135 A | 190 A | 190 A |
| Number of battery port / Number of BMS port | 1 / 1 | | | |
| Communication | RS485 / CAN | | | |
| Output AC (Grid side) | | | | |
| Rated output power | 5 kW | 6 kW | 7.5 kW | 8 kW |
| Max. apparent output power | 5.5 kVA | 6.6 kVA | 7.5 kVA | 8.8 kVA |
| Rated grid voltage | L+N+PE/2L+PE, 220 V; L1/L2/N(PE), 120(L-N)/240(L1-L2)VAC, L1/L2/N(PE), 127(L-N)/220(L1-L2)VAC | | | |
| Rated grid frequency | 50 Hz / 60 Hz | | | |
| Rated grid output current | 20.8 A / 22.7 A | 25 A / 27.3 A | 31.3 A / 34.1 A | 33.3 A / 36.4 A |
| Power factor | > 0.99 (0.8 leading - 0.8 lagging) | | | |
| THDi | < 3% | | | |
| Input AC (Grid side) | | | | |
| Max. input power | 7.7 kW / 8.4 kW | 8.8 kW / 9.6 kW | 11 kW / 12 kW | 11 kW / 12 kW |
| Input voltage range | 187 - 253 V | | | |
| Max. input current | 35 A | 40 A | 50 A | 50 A |
| Output AC (Back-up) | | | | |
| Rated output power | 5 kW | 6 kW | 7.5 kW | 8 kW |
| Max. apparent output power | 2 times of rated power, 10 s | | | |
| Back-up switch time | < 10 ms | | | |
| Rated output voltage | L1/L2/N(PE), 127 V / 220 V; L1/L2/N(PE), 120(L-N)/240(L1-L2)VAC, L1/L2/N(PE), 127(L-N)/220(L1-L2)VAC | | | |
| Rated frequency | 50 Hz / 60 Hz | | | |
| Rated output current | 20.8 A / 22.7 A | 25 A / 27.3 A | 31.3 A / 34.1 A | 33.3 A / 36.4 A |
| Max. AC passthrough current | 35 A | 40 A | 50 A | 50 A |
| THDv (@linear load) | < 3% | | | |
| Input AC (Generator side) | | | | |
| Max. input power | 5 kW | 6 kW | 7.5 kW | 8 kW |
| Rated input current | 20.8 A / 22.7 A | 25 A / 27.3 A | 31.3 A / 34.1 A | 33.3 A / 36.4 A |
| Rated input voltage | L1/L2/N(PE), 127 V / 220 V; L1/L2/N(PE), 120(L-N)/240(L1-L2)VAC, L1/L2/N(PE), 127(L-N)/220(L1-L2)VAC | | | |
| Rated input frequency | 50 Hz / 60 Hz | | | |
| Efficiency | | | | |
| Max. efficiency | 95.4% | | | |
| EU efficiency | 94.3% | | | |
| BAT charged by PV / AC max. efficiency | 95.0% | | | |
| Battery discharged efficiency | 93.7% | | | |
| Protection | | | | |
| Surge protection | Yes | | | |
| Output over current protection | Yes | | | |
| Insulation resistance monitoring | Yes | | | |
| Residual current detection | Yes | | | |
| Integrated PV switch | Yes | | | |
| DC reverse-polarity protection | Yes | | | |
| Protection class / Over voltage category | I / II (PV and BAT), III (MAINS and BACKUP and GEN) | | | |
| Integrated AFCI 2.0 | Yes | | | |
| Anti-islanding protection | Yes | | | |
| General Data | | | | |
| Max. power per phase (grid & back-up) | 50% rated power | | | |
| Dimensions (W × H × D) | 390 × 620 × 237 mm | | | |
| Weight | 28.8 kg | | | |
| Inverter topology | Non-isolated (PV), Isolated (Battery) | | | |
| Self-consumption | < 20 W | | | |
| Operating temperature range | -25 ~ +60°C | | | |
| Relative humidity | 0 - 100% | | | |
| Ingress protection | IP66 (TYPE 4X) | | | |
| Noise emission (typical) | < 55 dB(A) | | | |
| Cooling concept | Intelligent redundant fan-cooling | | | |
| Max. operation altitude | 4000 m | | | |
| Grid connection standard | Inmetro140, IEEE 1547 | | | |
| Safety / EMC standard | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2, UL 1741, UL 1699B, FCC | | | |
| Features | | | | |
| PV connection | MC4 connector | | | |
| Battery connection | Terminal Block | | | |
| AC connection | Terminal Block | | | |
| Display | 7.0" LCD display & Bluetooth + APP | | | |
| Communication interface | Standard: Wi-Fi+LAN+Bluetooth, CAN-BMS, CAN-Parallel×2, RS485-Meter, RS485, DRM, DI, DO×2, Optional: 4G | | | |

S6-EH2P(9.6-16)K03-SV-YD-L-US

Solis Split Phase Low Voltage Energy Storage Inverters

Applicable only to the Americas

Features:

- Supports PV input up to 160% of the inverter's rated DC power, maximising solar utilisation
- Support max 20A PV input current, compatible with future higher-power PV modules
- 300% overload for 1s in off-grid mode, ensuring stable startup of motors and air conditioner
- Seamless on/off-grid switching in under 10ms, guaranteeing an uninterrupted power supply
- Supports generator input across a wide range (20%–100% of rated power), reducing investment costs
- Supports both DC and AC coupling—making it easy to expand PV, charge batteries, and power loads reliably, even in off-grid conditions
- Battery reserve function across multiple scenarios, ensuring reliable backup power
- Smart Load management with prioritisation, extending backup time for critical loads
- Smart port enables multiple energy source inputs, including grid-tied inverters, diesel generators, and wind turbines
- Support max 6 units in parallel, for expanding system capacity
- Integrated Arc Fault Protection and Rapid Shutdown Transmitter, ensuring system safety

Models:

- S6-EH2P9.6K03-SV-YD-L-US
- S6-EH2P10K03-SV-YD-L-US
- S6-EH2P11.4K03-SV-YD-L-US
- S6-EH2P12K03-SV-YD-L-US
- S6-EH2P14K03-SV-YD-L-US
- S6-EH2P16K03-SV-YD-L-US



DATASHEET

| Models | 9.6K | 10K | 11.4K | 12K | 14K | 16K |
|--|---------------|-----------------|-----------------|--|-------------------|-------------------|
| Input DC (PV side) | | | | | | |
| Recommended max. PV power | 15.36 kW | 16 kW | 18.24 kW | 19.2 kW | 22.4 kW | 25.6 kW |
| Max. input voltage | | | | 550 V | | |
| Rated voltage | | | | 380 V | | |
| Start-up voltage | | | | 100 V | | |
| MPPT voltage range | | | | 100-450 V | | |
| Full load MPPT voltage range | | | | 160-450 V | 186-450 V | |
| Max. input current per MPPT | | | | 40 A | | |
| Max. short circuit current per MPPT | | | | 50 A | | |
| Number of MPPTs / Number of strings per MPPT | | | | 3 / 2 | | |
| Battery | | | | | | |
| Battery type | | | | Li-ion / Lead-acid | | |
| Battery voltage range | | | | 40 - 60 V | | |
| Max. charge / discharge current | 200 A | 208 A | 237.5 A | 250 A | 290 A | |
| Communication | | | | CAN / RS485 | | |
| Number of batteries per inverter | | | | See Battery Compatibility Sheet | | |
| Output AC (Grid side) | | | | | | |
| Rated output power | 9.6 kW | 10 kW | 11.4 kW | 12 kW | 14 kW | 16 kW |
| Max. apparent output power | 9.6 kVA | 10 kVA | 11.4 kVA | 12 kVA | 14 kVA | 16 kVA |
| Rated output voltage | | | | 220 V / 240 V | | |
| Rated grid frequency | | | | 50 Hz / 60 Hz | | |
| Rated grid output current | 43.6 A / 40 A | 45.5 A / 41.7 A | 51.8 A / 47.5 A | 54.5 A / 50 A | 63.6 A / 58.3 A | 72.7 A / 66.7 A |
| Max. output current | 43.6 A / 40 A | 45.5 A / 41.7 A | 51.8 A / 47.5 A | 54.5 A / 50 A | 63.6 A / 58.3 A | 72.7 A / 66.7 A |
| THDi | | | | < 3% | | |
| Input AC (Grid side) | | | | | | |
| Input voltage range | | | | 193.6 - 242 V / 211 - 264 V | | |
| Max. input current | | | | 200 A | | |
| Frequency range | | | | 59.5 - 60.5 Hz / 58.8 - 61.2 Hz | | |
| Output AC (Back-up and Off-grid) | | | | | | |
| Rated output power | 9.6 kW | 10 kW | 11.4 kW | 12 kW | 14 kW | 16 kW |
| Max. apparent output power | | | | 2 time of rated power, 10 s; 3 times of rated power, 1 s | | |
| Back-up switch time | | | | < 10 ms | | |
| Phase power | | | | L1/L2/N(PE), 120 V / 240 V (split phase) | | |
| Rated output voltage (L1-L2) | | | | 220 V / 240 V | | |
| AC output voltage range | | | | 193.6-242 V / 211-264 V | | |
| Rated grid frequency | | | | 50 Hz / 60 Hz | | |
| Rated output current | 43.6 A / 40 A | 45.5 A / 41.7 A | 51.8 A / 47.5 A | 54.5 A / 50 A | 63.6 A / 58.3 A | 72.7 A / 66.7 A |
| Max. output over current protection, 10 sec | 87.2 A / 80 A | 91 A / 83.4 A | 103.6 A / 95 A | 109 A / 100 A | 127.2 A / 116.6 A | 145.4 A / 133.4 A |
| Max. continuous AC passthrough | | | | 200 A | | |
| Max. allowable phase imbalance | | | | 50% | | |
| Backup support configurations | | | | Dedicated loads and whole-home | | |
| Power factor | | | | > 0.99 (0.8 leading - 0.8 lagging) | | |
| THDv (@linear load) | | | | < 3% | | |
| Input Generator | | | | | | |
| Max. input power | | | | 30 kW | | |
| Max. input current | | | | 125 A | | |
| Rated input frequency | | | | 50 Hz / 60 Hz | | |
| Efficiency | | | | | | |
| Max. efficiency | | | | 96.02% | | |
| CEC efficiency | | | | 95.45% | | |
| Battery charged by PV max. efficiency | | | | 96.21% | | |
| Battery charged / discharged to AC max. efficiency | | | | 94.16%/94.22% | | |
| Protection | | | | | | |
| Ground fault monitoring | | | | Yes | | |
| Integrated AFCI | | | | Yes | | |
| DC reverse-polarity protection | | | | Yes (PV only) | | |
| Rapid shutdown NEC 2017 | | | | Integrated SunSpec-certified Transmitter | | |
| Compatible RSD receivers | | | | See MLRSD compatibility Sheet | | |
| Protection class / Over voltage category | | | | I / II | | |
| General Data | | | | | | |
| Dimensions (W × H × D) | | | | 534 × 930 × 297 mm | | |
| Weight | | | | 65.8 kg | | |
| Inverter topology | | | | Non-isolated (PV), Isolated (Battery) | | |
| Operating ambient temperature range | | | | -25°C to 60°C | | |
| Ingress protection | | | | TYPE 4X (IP66) | | |
| Self-consumption (night) | | | | < 35 W | | |
| Noise emission (typical) | | | | <65 dB(A) | | |
| Cooling concept | | | | Intelligent fan-cooling | | |
| Relative humidity range | | | | 0 - 100% | | |
| Mounting type | | | | Wall Bracket | | |
| Max. operation altitude | | | | 13120 ft (4000 m) | | |
| Grid Certifications | | | | IEEE 1547-2018, IEEE1547.1-2020, CA Rule 21, SRD 2.0 | | |
| Safety Certifications | | | | UL 1741 PVRSS, UL 1699B, UL 1998 (US), UL 1741, UL 1741 SB, CSA C22.2107.1-1 | | |
| Emissions | | | | FCC Part 15 Class B | | |
| Features | | | | | | |
| DC connection | | | | Terminal Block (PV port) / Terminal Block (BAT port) | | |
| AC connection | | | | Terminal Block | | |
| Interface | | | | 7.0" LCD display & Bluetooth + APP | | |
| Revenue grade meter | | | | Optional | | |
| Monitoring platform | | | | SolisCloud (modbus map and API sharing available upon request) | | |
| Communication | | | | RS485, Optional: Cellular, Wi-Fi, LAN | | |

S6-EH2P(10-18)K03-SV-YD-L

Solis Split Phase Low Voltage Energy Storage Inverters

Applicable only to Latin America

Features:

- Supports PV input up to 160% of the inverter's rated DC power, maximising solar utilisation
- Support max 21A PV input current, compatible with future higher-power PV modules
- 200% overload for 10s in off-grid mode, ensuring stable startup of motors and air conditioner
- Seamless on/off-grid switching in under 10ms, guaranteeing an uninterrupted power supply
- Supports generator input across a wide range (20%–100% of rated power), reducing investment costs
- Supports both DC and AC coupling—making it easy to expand PV, charge batteries, and power loads reliably, even in off-grid conditions
- Battery reserve function across multiple scenarios, ensuring reliable backup power
- Smart Load management with prioritisation, extending backup time for critical loads
- Smart port enables multiple energy source inputs, including grid-tied inverters, diesel generators, and wind turbines
- Support max 6 units in parallel, for expanding system capacity
- Integrated Arc Fault Protection, ensuring system safety

Models:

S6-EH2P10K03-SV-YD-L

S6-EH2P12K03-SV-YD-L

S6-EH2P14K03-SV-YD-L

S6-EH2P16K03-SV-YD-L

S6-EH2P18K03-SV-YD-L



DATASHEET

| Models | 10K | 12K | 14K | 16K | 18K |
|--|--|---------------|-------------------|-------------------|-----------------|
| Input DC (PV side) | | | | | |
| Recommended max. PV power | 16 kW | 19.2 kW | 22.4 kW | 25.6 kW | 28.8 kW |
| Max. input voltage | 550 V | | | | |
| Rated voltage | 380 V | | | | |
| Start-up voltage | 100 V | | | | |
| MPPT voltage range | 100-450 V | | | | |
| Full load MPPT voltage range | 160-450 V | | 186-450 V | | |
| Max. input current per MPPT | 40 A | | 42 A | | |
| Max. short circuit current per MPPT | 50 A | | | | |
| Number of MPPTs / Number of strings per MPPT | 3 / 2 | | | | |
| Battery | | | | | |
| Battery type | Li-ion / Lead-acid | | | | |
| Battery voltage range | 40 - 60 V | | | | |
| Max. charge / discharge current | 208 A | 250 A | 290 A | 320 A | |
| Battery switch | Yes | | | | |
| Communication | CAN / RS485 | | | | |
| Number of batteries per inverter | See Battery Compatibility Sheet | | | | |
| Output AC (Grid side) | | | | | |
| Rated output power | 10 kW | 12 kW | 14 kW | 16 kW | 18 kW |
| Max. apparent output power | 10 kVA | 12 kVA | 14 kVA | 16 kVA | 18 kVA |
| Rated output voltage | 220 V / 240 V | | | | |
| Rated grid frequency | 50 Hz / 60 Hz | | | | |
| Rated grid output current | 45.5 A / 41.7 A | 54.5 A / 50 A | 63.6 A / 58.3 A | 72.7 A / 66.7 A | 81.8 A / 75 A |
| Max. output current | 45.5 A / 41.7 A | 54.5 A / 50 A | 63.6 A / 58.3 A | 72.7 A / 66.7 A | 81.8 A / 75 A |
| THDi | < 3% | | | | |
| Input AC (Grid side) | | | | | |
| Input voltage range | 193.6 - 242 V / 211 - 264 V | | | | |
| Max. input current | 200 A | | | | |
| Frequency range | 59.5 - 60.5 Hz / 58.8 - 61.2 Hz | | | | |
| Output AC (Back-up and Off-grid) | | | | | |
| Rated output power | 10 kW | 12 kW | 14 kW | 16 kW | 18 kW |
| Max. apparent output power | 2 time of rated power, 10 s | | | | |
| Back-up switch time | < 10 ms | | | | |
| Phase power | L1/L2/N(PE), 120 V / 240 V (split phase) | | | | |
| Rated output voltage (L1-L2) | 220 V / 240 V | | | | |
| AC output voltage range | 193.6 - 242 V / 211 - 264 V | | | | |
| Rated grid frequency | 50 Hz / 60 Hz | | | | |
| Rated output current | 45.5 A / 41.7 A | 54.5 A / 50 A | 63.6 A / 58.3 A | 72.7 A / 66.7 A | 81.8 A / 75 A |
| Max. output over current protection, 10 sec | 91 A / 83.4 A | 109 A / 100 A | 127.2 A / 116.6 A | 145.4 A / 133.4 A | 163.6 A / 150 A |
| Max. continuous AC passthrough | 200 A | | | | |
| Max. allowable phase imbalance | 50% | | | | |
| Backup support configurations | Dedicated loads and whole-home | | | | |
| Power factor | > 0.99 (0.8 leading - 0.8 lagging) | | | | |
| THDv (@linear load) | < 3% | | | | |
| Input Generator | | | | | |
| Max. input power | 30 kW | | | | |
| Max. input current | 125 A | | | | |
| Rated input frequency | 50 Hz / 60 Hz | | | | |
| Efficiency | | | | | |
| Max. efficiency | 96.02% | | | | |
| CEC efficiency | 95.45% | | | | |
| Battery charged by PV max. efficiency | 96.21% | | | | |
| Battery charged / discharged to AC max. efficiency | 94.16%/94.22% | | | | |
| Protection | | | | | |
| Ground fault monitoring | Yes | | | | |
| Integrated AFCI | Yes | | | | |
| DC reverse-polarity protection | Yes (PV only) | | | | |
| Protection class / Over voltage category | I / II | | | | |
| General Data | | | | | |
| Dimensions (W × H × D) | 534 × 930 × 297 mm | | | | |
| Weight | 65.8 kg | | | | |
| Inverter topology | Non-isolated (PV), Isolated (Battery) | | | | |
| Operating ambient temperature range | -25°C ~ 60°C | | | | |
| Ingress protection | TYPE 4X | | | | |
| Noise emission (typical) | <65 dB(A) | | | | |
| Self-consumption (night) | < 35 W | | | | |
| Cooling concept | Intelligent fan-cooling | | | | |
| Relative humidity range | 0 - 100% | | | | |
| Mounting type | Wall Bracket | | | | |
| Max. operation altitude | 4000 m | | | | |
| Grid Certifications | IEEE 1547-2018, IEEE1547.1-2020, CA Rule 21 | | | | |
| Safety Certifications | UL 1741, UL 1741 SB, CSA C22.2107.1-1, UL 1741 PVRSS, UL 1699B, UL 1998 (US) | | | | |
| Emissions | FCC Parte 15 Clase B | | | | |
| Features | | | | | |
| DC connection | Terminal Block (PV port) / Terminal Block (BAT port) | | | | |
| AC connection | Terminal Block | | | | |
| Interface | 7.0" LCD display & Bluetooth + APP | | | | |
| Revenue grade meter | Optional | | | | |
| Monitoring platform | SolisCloud (modbus map and API sharing available upon request) | | | | |
| Communication | RS485, Optional: Cellular, Wi-Fi, LAN | | | | |

S6-EH3P(5-18)K02-NV-YD-L

Solis Three Phase Low Voltage Energy Storage Inverters

Features:

- Supports PV input up to 160% of the inverter's rated DC power, maximising solar utilisation
- Supports up to 21A PV input current, compatible with future higher-power PV modules
- 200% overload for 10s in off-grid mode, ensuring stable startup of motors, water pumps and air conditioners
- Seamless on/off-grid switching in under 10ms, guaranteeing an uninterrupted power supply
- Support three-phase unbalanced output, each phase supports output max. 50% rated inverter power
- Supports both DC and AC coupling—making it easy to expand PV, charge batteries, and power loads reliably, even in off-grid conditions
- Multiple methods of generator connection and auto control, enabling flexible local deployment
- Support max 6 units in parallel, expanding system capacity
- Smart Load management with prioritisation, extending backup time for critical loads
- Customizable battery backup level for uninterrupted power
- Supports PV-only off-grid operation, reducing upfront costs
- SolisCloud: Smart remote control, AI optimisation, and instant troubleshooting — all in one platform
- 7-inch industrial-grade LCD screen, providing a larger, user-friendly interface for local operation
- Ingress protection IP66, for operation in harsh conditions

Models:

- S6-EH3P5K02-NV-YD-L / S6-EH3P6K02-NV-YD-L
- S6-EH3P8K02-NV-YD-L / S6-EH3P10K02-NV-YD-L
- S6-EH3P12K02-NV-YD-L / S6-EH3P15K02-NV-YD-L
- S6-EH3P18K02-NV-YD-L



DATASHEET

| Models | 5K | 6K | 8K | 10K | 12K | 15K | 18K |
|--|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Input DC (PV side) | | | | | | | |
| Recommended max. PV array size | 10 kW | 12 kW | 16 kW | 20 kW | 24 kW | 30 kW | 36 kW |
| Max. usable PV input power | 9 kW | 9.6 kW | 12.8 kW | 16 kW | 19.2 kW | 24 kW | 28.8 kW |
| Max. input voltage | 1000 V | | | | | | |
| Rated voltage | 550 V | | | | | | |
| Start-up voltage | 160 V | | | | | | |
| MPPT voltage range | 200 - 850 V | | | | | | |
| Max. input current | 20 A / 20 A | 20 A / 20 A | | 20 A / 40 A | | 40 A / 40 A | 42 A / 42 A |
| Max. current per DC input | 20 A | | | | | | |
| Max. short circuit current | 30 A / 30 A | 30 A / 30 A | | 30 A / 50 A | | 50 A / 50 A | 50 A / 50 A |
| MPPT number / Max. input strings number | 2 / 2 | | | 2 / 3 | | | 2 / 4 |
| Battery | | | | | | | |
| Battery type | Li-ion / Lead-acid | | | | | | |
| Battery voltage range | 40 - 60 V | | | | | | |
| Max. charge / discharge current | 125 A | 150 A | 180 A | 220 A | 250 A | 290 A | 320 A |
| Number of battery port / Number of BMS port | 2 / 1 | | | | | | |
| Max. charge / discharge current of each port | 150 A | | | | | | |
| Communication | CAN / RS485 | | | | | | |
| Output AC (Grid side) | | | | | | | |
| Rated output power | 5 kW | 6 kW | 8 kW | 10 kW | 12 kW | 15 kW | 18 kW |
| Max. apparent output power | 5 kVA | 6 kVA | 8 kVA | 10 kVA | 12 kVA | 15 kVA | 18 kVA |
| Rated grid voltage | 3/N/PE, 220 V / 380 V; 3/N/PE, 230 V / 400 V | | | | | | |
| Rated grid frequency | 50 Hz / 60 Hz | | | | | | |
| Rated grid output current | 7.6 A / 7.3 A | 9.1 A / 8.7 A | 12.2 A / 11.5 A | 15.2 A / 14.4 A | 18.2 A / 17.3 A | 22.8 A / 21.7 A | 27.3 A / 26.1 A |
| Power factor | > 0.99 (0.8 leading - 0.8 lagging) | | | | | | |
| THDi | < 3% | | | | | | |
| Input AC (Grid side) | | | | | | | |
| Max. input power | 7.5 kW | 9 kW | 12 kW | 15 kW | 18 kW | 22.5 kW | 27 kW |
| Input voltage range | 323 - 437 V / 340 - 460 V | | | | | | |
| Max. input current | 11.4 A / 10.9 A | 13.7 A / 13.1 A | 18.3 A / 17.3 A | 22.8 A / 21.7 A | 27.3 A / 26.0 A | 34.2 A / 32.5 A | 41 A / 39.2 A |
| Output AC (Back-up) | | | | | | | |
| Rated output power | 5 kW | 6 kW | 8 kW | 10 kW | 12 kW | 15 kW | 18 kW |
| Max. apparent output power | 2 times of rated power, 10 s | | | | | | |
| Back-up switch time | < 10 ms | | | | | | |
| Rated output voltage | 3/N/PE, 220 V / 380 V; 3/N/PE, 230 V / 400 V | | | | | | |
| Rated frequency | 50 Hz / 60 Hz | | | | | | |
| Rated output current | 7.6 A / 7.3 A | 9.1 A / 8.7 A | 12.2 A / 11.5 A | 15.2 A / 14.4 A | 18.2 A / 17.3 A | 22.8 A / 21.7 A | 27.3 A / 26.1 A |
| Max. AC passthrough current | 50 A | | | | | | |
| THDv (@linear load) | < 3% | | | | | | |
| Input AC (Generator side) | | | | | | | |
| Max. input power | 5 kW | 6 kW | 8 kW | 10 kW | 12 kW | 15 kW | 18 kW |
| Rated input current | 7.6 A / 7.3 A | 9.1 A / 8.7 A | 12.2 A / 11.5 A | 15.2 A / 14.4 A | 18.2 A / 17.3 A | 22.8 A / 21.7 A | 27.3 A / 26.1 A |
| Rated input voltage | 3/N/PE, 220 V / 380 V; 3/N/PE, 230 V / 400 V | | | | | | |
| Rated input frequency | 50 Hz / 60 Hz | | | | | | |
| Efficiency | | | | | | | |
| Max. efficiency | 97.5% | | | | | | |
| EU efficiency | 96.4% | | | | | | |
| BAT charged by PV / AC max. efficiency | 95.0% / 94.4% | | | | | | |
| Battery discharged efficiency | 94.5% | | | | | | |
| Protection | | | | | | | |
| Surge protection | DC Type II / AC Type II (Optional) | | | | | | |
| Output over current protection | Yes | | | | | | |
| Insulation resistance monitoring | Yes | | | | | | |
| Residual current detection | Yes | | | | | | |
| Integrated PV switch | Yes | | | | | | |
| DC reverse-polarity protection | Yes | | | | | | |
| Protection class / Over voltage category | I / II (PV and BAT), III (MAINS and BACKUP and GEN) | | | | | | |
| Integrated AFCI 2.0 | Optional | | | | | | |
| Anti-islanding protection | Yes | | | | | | |
| General Data | | | | | | | |
| Max. power per phase | 50% rated power | | | | | | 40% rated power |
| Dimensions (W × H × D) | 430 × 660 × 305 mm | | | | | | |
| Weight | 42 kg | | | | | | |
| Inverter topology | Non-isolated (PV), Isolated (Battery) | | | | | | |
| Self-consumption | < 30 W | | | | | | |
| Operating temperature range | -25 ~ +60°C | | | | | | |
| Relative humidity | 0 - 100% | | | | | | |
| Ingress protection | IP66 | | | | | | |
| Noise emission (typical) | < 65 dB(A) | | | | | | |
| Cooling concept | Intelligent fan-cooling | | | | | | |
| Max. operation altitude | 4000 m | | | | | | |
| Grid connection standard | EN 50549-1/-10, VDE 4105&VDE 0124, NRS 097-2-1, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, SriLanka, EN 50438L, Vietnam, MEA, PEA, CEI 0-21 | | | | | | |
| Safety / EMC standard | IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4 | | | | | | |
| Features | | | | | | | |
| PV connection | MC4 Quick connection plug | | | | | | |
| Battery connection | Screw terminal | | | | | | |
| AC connection | Screw terminal | | | | | | |
| Display | 7.0" LCD display & Bluetooth + APP | | | | | | |
| Communication interface | Standard: WIFI+LAN+Bluetooth, CAN-BMS, CAN-Parallel×2, RS485-Meter, RS485, DRM, DI, DO×4; Optional: 2G/3G/4G | | | | | | |

S6-EH3P(7-10)K02-LV-YD-L

Solis Three Phase Low Voltage Energy Storage Inverters

Applicable to Brazil and Philippines

Features:

- Supports PV input up to 160% of the inverter's rated DC power, maximising solar utilisation
- Supports up to 21A PV input current, compatible with future higher-power PV modules
- 200% overload for 10s in off-grid mode, ensuring stable startup of motors, water pumps and air conditioners
- Seamless on/off-grid switching in under 10ms, guaranteeing an uninterrupted power supply
- Support three-phase unbalanced output, each phase supports output max. 50% rated inverter power
- Supports both DC and AC coupling—making it easy to expand PV, charge batteries, and power loads reliably, even in off-grid conditions
- Multiple methods of generator connection and auto control, enabling flexible local deployment
- Support max 6 units in parallel, expanding system capacity
- Smart Load management with prioritisation, extending backup time for critical loads
- Customizable battery backup level for uninterrupted power
- Supports PV-only off-grid operation, reducing upfront costs
- SolisCloud: Smart remote control, AI optimisation, and instant troubleshooting — all in one platform
- 7-inch industrial-grade LCD screen, providing a larger, user-friendly interface for local operation
- Ingress protection IP66, for operation in harsh conditions

Models:

- S6-EH3P7K02-LV-YD-L
- S6-EH3P8K02-LV-YD-L
- S6-EH3P9K02-LV-YD-L
- S6-EH3P10K02-LV-YD-L



DATASHEET

| Models | 7K | 8K | 9K | 10K |
|--|-----------------|--|--------------------|-----------------|
| Input DC (PV side) | | | | |
| Recommended max. PV array size | 14 kW | 16 kW | 18 kW | 20 kW |
| Max. usable PV input power | 11.2 kW | 12.8 kW | 14.4 kW | 16 kW |
| Max. input voltage | | | 1000 V | |
| Rated voltage | | | 550 V | |
| Start-up voltage | | | 160 V | |
| MPPT voltage range | | | 200 - 850 V | |
| Max. input current | | 20 A / 40 A | | 42 A / 42 A |
| Max. current per DC input | | 20 A | | 21 A |
| Max. short circuit current | | 30 A / 50 A | | 50 A / 50 A |
| MPPT number / Max. input strings number | | 2 / 3 | | 2 / 4 |
| Battery | | | | |
| Battery type | | | Li-ion / Lead-acid | |
| Battery voltage range | | | 40 - 60 V | |
| Max. charge / discharge current | 156 A | 178 A | 200 A | 235 A |
| Number of battery port / Number of BMS port | | | 2 / 1 | |
| Max. charge / discharge current of each port | | | 150 A | |
| Communication | | | CAN / RS485 | |
| Output AC (Grid side) | | | | |
| Rated output power | 7 kW | 8 kW | 9 kW | 10 kW |
| Max. apparent output power | 7 kVA | 8 kVA | 9 kVA | 10 kVA |
| Rated grid voltage | | 3/N/PE, 127 V / 220 V; 3/N/PE, 133 V / 230 V | | |
| Rated grid frequency | | 50 Hz / 60 Hz | | |
| Rated grid output current | 18.4 A / 17.6 A | 21 A / 20.1 A | 23.5 A / 22.6 A | 26.3 A / 25.1 A |
| Power factor | | > 0.99 (0.8 leading - 0.8 lagging) | | |
| THDi | | < 3% | | |
| Input AC (Grid side) | | | | |
| Max. input power | 10.5 kW | 12 kW | 13.5 kW | 15 kW |
| Input voltage range | | 187 - 253 V / 196 - 265 V | | |
| Max. input current | 27.6 A / 26.3 A | 31.5 A / 30.1 A | 35.4 A / 33.8 A | 39.4 A / 37.6 A |
| Output AC (Back-up) | | | | |
| Rated output power | 7 kW | 8 kW | 9 kW | 10 kW |
| Max. apparent output power | | 2 times of rated power, 10 s | | |
| Back-up switch time | | < 10 ms | | |
| Rated output voltage | | 3/N/PE, 127 V / 220 V; 3/N/PE, 133 V / 230 V | | |
| Rated frequency | | 50 Hz / 60 Hz | | |
| Rated output current | 18.4 A / 17.6 A | 21 A / 20.1 A | 23.5 A / 22.6 A | 26.3 A / 25.1 A |
| Max. AC passthrough current | | 50 A | | |
| THDv (@linear load) | | < 3% | | |
| Input AC (Generator side) | | | | |
| Max. input power | 7 kW | 8 kW | 9 kW | 10 kW |
| Rated input current | 18.4 A / 17.6 A | 21 A / 20.1 A | 23.5 A / 22.6 A | 26.3 A / 25.1 A |
| Rated input voltage | | 3/N/PE, 127 V / 220 V; 3/N/PE, 133 V / 230 V | | |
| Rated input frequency | | 50 Hz / 60 Hz | | |
| Efficiency | | | | |
| Max. efficiency | | 96.2% | | |
| EU efficiency | | 94.9% | | |
| BAT charged by PV / AC max. efficiency | | 95.6% / 92.9% | | |
| Battery discharged efficiency | | 92.9% | | |
| Protection | | | | |
| Surge protection | | DC Type II / AC Type II (Optional) | | |
| Output over current protection | | Yes | | |
| Insulation resistance monitoring | | Yes | | |
| Residual current detection | | Yes | | |
| Integrated PV switch | | Yes | | |
| DC reverse-polarity protection | | Yes | | |
| Protection class / Over voltage category | | I / II (PV and BAT), III (MAINS and BACKUP and GEN) | | |
| Integrated AFCI 2.0 | | Optional (Brazil: Yes) | | |
| Anti-islanding protection | | Yes | | |
| General Data | | | | |
| Max. power per phase | | 50% rated power | | 45% rated power |
| Dimensions (W × H × D) | | 430 × 660 × 305 mm | | |
| Weight | | 42 kg | | |
| Inverter topology | | Non-isolated (PV), Isolated (Battery) | | |
| Self-consumption | | < 30 W | | |
| Operating temperature range | | -25 ~ +60°C | | |
| Relative humidity | | 0 - 100% | | |
| Ingress protection | | IP66 | | |
| Noise emission (typical) | | < 65 dB(A) | | |
| Cooling concept | | Intelligent fan-cooling | | |
| Max. operation altitude | | 4000 m | | |
| Grid connection standard | | Philippin, ORDINANCE (PORTARIA) No.140 and No. 515 | | |
| Safety / EMC standard | | IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3-4 | | |
| Features | | | | |
| PV connection | | MC4 Quick connection plug | | |
| Battery connection | | Screw terminal | | |
| AC connection | | Screw terminal | | |
| Display | | 7.0" LCD display & Bluetooth + APP | | |
| Communication interface | | Standard: WIFI+LAN+Bluetooth, CAN-BMS, CAN-Parallel×2, RS485-Meter, RS485, DRM, DI, DO×4; Optional: 2G/3G/4G | | |

S6-EH3P(3-10)K-H, S6-EH3P12K-H-EU(21A)

Solis Three Phase High Voltage Energy Storage Inverters

Unique Advantages

- ★ Supports up to 4 MPPTs, suitable for multi-orientation and occlusion, to improve power generation

Leading Advantages

- Supports PV input up to 160% of the inverter's rated DC power, maximising solar utilisation
- Supports up to 21A PV input current, compatible with future higher-power PV modules
- 160% overload for 60s in off-grid mode, ensuring stable startup of motors, water pumps and air conditioner
- Seamless on/off-grid switching in under 10ms, guaranteeing an uninterrupted power supply
- Support three-phase unbalanced output, each phase supports output max. 50% rated inverter power
- Supports existing PV grid-tied power connection for export control and off-grid use
- Support grid side generator access, adapting to scenarios with insufficient power supply
- Support max 6 units in parallel, for expanding system capacity
- Customizable battery backup level for uninterrupted power
- PV only off grid mode, to reduce the initial investment cost
- SolisCloud: Smart remote control, AI optimisation, and instant troubleshooting - all in one platform
- Ingress protection IP66, adapting to harsh ambient conditions

Models:

S6-EH3P5K2-H / S6-EH3P6K2-H

S6-EH3P8K2-H / S6-EH3P10K2-H

S6-EH3P3K-H-EU / S6-EH3P4K-H-EU

S6-EH3P5K-H-EU / S6-EH3P6K-H-EU

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

S6-EH3P12K-H-EU(21A)



DATASHEET

| Models | 5K2 | 6K2 | 8K2 | 10K2 | 3K-EU | 4K-EU | 5K-EU | 6K-EU | 8K-EU | 10K-EU | 12K-EU(21A) | |
|---|---|-----------------|-----------------|--------------------|--------------------------|------------------------------------|--------------------|-----------------|-----------------|--------------------|-----------------|--|
| Input DC (PV side) | | | | | | | | | | | | |
| Recommended max. PV array size | 10 kW | 12 kW | 16 kW | 20 kW | 6 kW | 8 kW | 10 kW | 12 kW | 16 kW | 20 kW | 24 kW | |
| Max. usable PV input power | 8 kW | 9.6 kW | 12.8 kW | 16 kW | 4.8 kW | 6.4 kW | 8 kW | 9.6 kW | 12.8 kW | 16 kW | 19.2 kW | |
| Max. input voltage | 1000 V | | | | | | | | | | | |
| Rated voltage | 600 V | | | | | | | | | | | |
| Start-up voltage | 160 V | | | | | | | | | | | |
| MPPT voltage range | 200 - 850 V | | | | | | | | | | | |
| Max. input current | 16 A / 16 A | | | 16 A / 16 A | | | 16 A / 16 A / 16 A | | | 4 × 16 A | | |
| Max. current per DC input | 16 A | | | | | | | | | | | |
| Max. short circuit current | 24 A / 24 A | | | 24 A / 24 A | | | 24 A / 24 A / 24 A | | | 4 × 24 A | | |
| MPPT number / Max. input strings number | 2 / 2 | | | 2 / 2 | | | 3 / 3 | | | 4 / 4 | | |
| Battery | | | | | | | | | | | | |
| Battery type | Li-ion | | | | | | | | | | | |
| Battery voltage range | 120 - 600 V ^① | | | | 120 - 600 V ^① | | | | 120 - 700 V | | | |
| Max. charge / discharge current | 25 A | | 50 A | | 25 A | | 50 A | | 25 A | | 50 A | |
| Number of battery port / Number of BMS port | 1 / 1 | | | | | | | | | | | |
| Communication | CAN / RS485 | | | | | | | | | | | |
| Output AC (Grid side) | | | | | | | | | | | | |
| Rated output power | 5 kW | 6 kW | 8 kW | 10 kW | 3 kW | 4 kW | 5 kW | 6 kW | 8 kW | 10 kW | 12 kW | |
| Max. apparent output power | 5 kVA | 6 kVA | 8 kVA | 10 kVA | 3 kVA | 4 kVA | 5 kVA | 6 kVA | 8 kVA | 10 kVA | 12 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 | 7.6 A / 7.2 A | 9.1 A / 8.7 A | 12.2 A / 11.5 A | 15.2 A / 14.4 A | 4.6 A / 4.3 A | 6.1 A / 5.8 A | 7.6 A / 7.2 A | 9.1 A / 8.7 A | 12.2 A / 11.5 A | 15.2 A / 14.4 A | 18.2 A / 17.3 A | |
| Power factor | > 0.99 (0.8 leading - 0.8 lagging) | | | | | | | | | | | |
| THDi | < 3% | | | | | | | | | | | |
| Input AC (Grid side) | | | | | | | | | | | | |
| Max. input power | 5 kW | 6 kW | 8 kW | 10 kW | 3 kW | 4 kW | 5 kW | 6 kW | 8 kW | 10 kW | 12 kW | |
| Input voltage range | 304 - 437 V / 320 - 460 V | | | | | | | | | | | |
| Max. input current | 11.4 A / 10.9 A | 13.6 A / 13.0 A | 18.2 A / 17.4 A | 22.7 A / 21.7 A | 6.8 A / 6.5 A | 9.1 A / 8.7 A | 11.4 A / 10.9 A | 13.6 A / 13.0 A | 18.2 A / 17.4 A | 22.7 A / 21.7 A | 27.3 A / 26.0 A | |
| Output AC (Back-up) | | | | | | | | | | | | |
| Rated output power | 5 kW | 6 kW | 8 kW | 10 kW | 3 kW | 4 kW | 5 kW | 6 kW | 8 kW | 10 kW | 12 kW | |
| Max. apparent output power | 1.6 times of rated power, 60 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 | 7.6 A / 7.2 A | 9.1 A / 8.7 A | 12.2 A / 11.5 A | 15.2 A / 14.4 A | 4.6 A / 4.3 A | 6.1 A / 5.8 A | 7.6 A / 7.2 A | 9.1 A / 8.7 A | 12.2 A / 11.5 A | 15.2 A / 14.4 A | 18.2 A / 17.3 A | |
| Max. AC passthrough 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 | 4.6 A / 4.3 A | 6.1 A / 5.8 A | 7.6 A / 7.2 A | 9.1 A / 8.7 A | 12.2 A / 11.5 A | 15.2 A / 14.4 A | 18.2 A / 17.3 A | |
| THDv (@linear load) | < 2% | | | | | | | | | | | |
| Efficiency | | | | | | | | | | | | |
| Max. efficiency | 96.50% | 97.00% | 97.50% | 97.90% | 95.50% | 96.00% | 96.50% | 97.00% | 97.50% | 97.90% | 97.85% | |
| EU efficiency | 96.77% | 97.10% | 97.41% | 97.51% | 95.51% | 96.03% | 96.77% | 97.10% | 97.41% | 97.51% | 97.51% | |
| BAT charged by PV / AC max. efficiency | 98.37% / 97.32% | 98.45% / 97.34% | 98.22% / 97.50% | 98.31% / 97.50% | 95.96% / 97.04% | 96.57% / 97.29% | 98.37% / 97.32% | 98.45% / 97.34% | 98.22% / 97.50% | 98.31% / 97.50% | 98.31% / 97.50% | |
| Battery discharged efficiency | 97.32% | 97.34% | 97.50% | 97.50% | 97.04% | 97.29% | 97.32% | 97.34% | 97.50% | 97.50% | 97.50% | |
| Protection | | | | | | | | | | | | |
| Surge protection | DC Type III / AC Type III | | | | | DC Type II / AC Type II (optional) | | | | | | |
| Output over current protection | Yes | | | | | | | | | | | |
| Insulation resistance monitoring | Yes | | | | | | | | | | | |
| Residual current detection | Yes | | | | | | | | | | | |
| Integrated PV switch | Yes | | | | | | | | | | | |
| DC reverse-polarity protection | Yes | | | | | | | | | | | |
| Protection class / Over voltage category | I / II (PV and BAT), III (MAINS and BACKUP) | | | | | | | | | | | |
| Integrated AFCI 2.0 | Optional | | | | | | | | | | | |
| Anti-islanding protection | Yes | | | | | | | | | | | |
| General Data | | | | | | | | | | | | |
| Max. power per phase | 50% rated power | | | | | | | | | | | |
| Dimensions (W × H × D) | 563 × 412 × 209 mm | | | 563 × 412 × 230 mm | | | 563 × 412 × 209 mm | | | 600 × 500 × 230 mm | | |
| Weight | 27.6 kg | | 30.2 kg | | 26.4 kg | | 27.6 kg | | 30.2 kg | | 34.5 kg | |
| Inverter topology | Transformerless | | | | | | | | | | | |
| Self-consumption | < 25 W | | | | | | | | | | | |
| Operating temperature range | -25 ~ +60°C | | | | | | | | | | | |
| Relative humidity | 0 - 100% | | | | | | | | | | | |
| 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 interface | Standard: WIFI+LAN+Bluetooth, CAN-BMS, CAN-Parallel×2, RS485-Meter, RS485, DRM, DI, DO | | | | | | | | | | | |

① Supports max. battery voltage to 700 V.

S6-EH3P(12-20)K-H

Solis Three Phase High Voltage Energy Storage Inverters

Smart Energy Management

- AI intelligently manages charging and discharging based on TOU (Time-of-Use) tariffs
- Seamless integration with VPP and EMS platforms for enhanced energy optimization
- Built-in control for SG-ready heat pumps

Flexible & Scalable

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

High Performance

- Supports three-phase unbalanced output, allowing up to 40% of rated inverter power per phase
- 160% PV input capacity to maximize solar energy utilization
- Switching time < 10ms

Simple & Fast Configuration

- 7-inch large screen uses U.S.-made ZEITLER industrial-grade components
- Bluetooth app support for quick and easy setup

Models:

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



DATASHEET

| 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. current per DC input | | 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 current | | 50 A | |
| Number of battery port / Number of BMS port | | 1 / 1 | |
| 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 |
| Power factor | | > 0.99 (0.8 leading - 0.8 lagging) | |
| THDi | | < 3% | |
| Input AC (Grid side) | | | |
| Max. input power | 18 kW | 22.5 kW | 30 kW |
| 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 |
| Output AC (Back-up) | | | |
| Rated output power | 12 kW | 15 kW | 20 kW |
| Max. apparent output power | | 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 |
| Max. AC passthrough current | 27.3 A / 26.0 A | 34.2 A / 32.5 A | 45.6 A / 43.3 A |
| THDv (@linear load) | | < 3% | |
| Input AC (Generator side) | | | |
| Max. input power | 12 kW | 15 kW | 20 kW |
| Rated input current | 18.2 A / 17.3 A | 22.8 A / 21.7 A | 30.4 A / 28.9 A |
| Rated input voltage | | 3/N/PE, 220 V / 380 V, 230 V / 400 V | |
| Rated input frequency | | 50 Hz / 60 Hz | |
| Efficiency | | | |
| Max. efficiency | | 97.7% | |
| EU efficiency | | 97.5% | |
| BAT charged by PV / AC max. efficiency | | 98.5% / 97.2% | |
| Battery discharged efficiency | | 97.2% | |
| Protection | | | |
| Surge protection | | DC Type II / AC Type II (Optional) | |
| Output over current protection | | Yes | |
| Insulation resistance monitoring | | Yes | |
| Residual current detection | | Yes | |
| Integrated PV switch | | Yes | |
| DC reverse-polarity protection | | Yes | |
| Protection class / Over voltage category | | I / II (PV and BAT), III (MAINS and BACKUP and GEN) | |
| Anti-islanding protection | | Yes | |
| General Data | | | |
| Max. power per phase | | 40% rated power | |
| Dimensions (W × H × D) | | 563 × 546 × 250 mm | |
| Weight | | 35.2 kg | |
| Inverter topology | | Transformerless | |
| Self-consumption | | < 25 W | |
| Operating temperature range | | -25 ~ +60°C | |
| Relative humidity | | 0 - 100% | |
| Ingress protection | | IP66 | |
| Noise emission (typical) | | < 65 dB(A) | |
| Cooling concept | | Intelligent redundant 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, LTU-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 | | Lever terminal | |
| AC connection | | OT terminal | |
| Display | | 7.0" LCD display & Bluetooth + APP | |
| Communication interface | | Standard: WIFI+LAN+Bluetooth, CAN-BMS, CAN-Parallel×2, RS485-Meter, RS485, DRM, DI, DO×3 | |

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

**DATASHEET**

| 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:

- AI intelligently manages charging and discharging based on TOU (Time-of-Use) tariffs
- Supports general setting options for lithium batteries, suitable for non-communicating batteries
- Real-time battery monitoring, remote upgrade, and battery healing function to prolong battery life
- Supports peak shaving control
- Facilitates low-power standby mode to minimize overall system power usage

Models:

- S6-EA1P3.6K-L
- S6-EA1P4.6K-L
- S6-EA1P5K-L
- S6-EA1P6K-L



DATASHEET

| 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 | | | |

S6-EA3P(5-10)KAA-NV-ND-H

Solis Three Phase High Voltage AC-Coupled Inverters

Features:

- Supports six different battery charging and discharging TOU (Time of Use) settings to lower your electricity bill
- Max. charge/discharge current up to 50A
- Supports peak shaving control
- Dual RS485 port, supports remote upgrade and VPP remote control
- Real-time battery monitoring, remote upgrade, and battery healing function to prolong battery life
- Compatible with mainstream lithium batteries

Models:

- S6-EA3P5KAA-NV-ND-H
- S6-EA3P6KAA-NV-ND-H
- S6-EA3P8KAA-NV-ND-H
- S6-EA3P10KAA-NV-ND-H



DATASHEET

| Models | 5K | 6K | 8K | 10K |
|--|---|---------------|--------------------|-----------------|
| Battery | | | | |
| Battery type | Li-ion | | | |
| Battery voltage range | 120 - 600 V | | | |
| Max. charge / discharge power | 5 kW | 6 kW | 8 kW | 10 kW |
| Charge / discharge current | 0 - 25 A | | 0 - 50 A | |
| Battery Isc | 80 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 | | | |
| Grid voltage range | 320 - 460 V | | | |
| Rated grid frequency | 50 Hz / 60 Hz | | | |
| Rated grid output current | 7.6 A / 7.2 A | 9.1 A / 8.7 A | 12.2 A / 11.5 A | 15.2 A / 14.4 A |
| Max. output current | 7.6 A / 7.2 A | 9.1 A / 8.7 A | 12.2 A / 11.5 A | 15.2 A / 14.4 A |
| Power factor | > 0.99 (0.8 leading - 0.8 lagging) | | | |
| THDi | < 3% | | | |
| Input AC (Grid side) | | | | |
| Max. input power | 7.5 kW | 9 kW | 12 kW | 15 kW |
| Rated input current | 11.4 A | 13.8 A | 18.2 A | 22.8 A |
| Rated input voltage | 3/N/PE, 380 V / 400 V | | | |
| Rated frequency | 50 Hz / 60 Hz | | | |
| Efficiency | | | | |
| EU efficiency | 97.51% | | | |
| BAT charged / discharged to AC max. efficiency | 97.50% | | | |
| Protection | | | | |
| Anti-islanding protection | Yes | | | |
| Output over current protection | Yes | | | |
| Short circuit protection | Yes | | | |
| Battery reverse protection | Yes | | | |
| Protection class / Over voltage category | I / II (Battery), III (Main) | | | |
| General Data | | | | |
| Dimensions (W × H × D) | 600 × 500 × 210 mm | | 600 × 500 × 230 mm | |
| Weight | 24.3 kg | | 26.9 kg | |
| Topology | Transformerless | | | |
| Self-consumption (night) | < 25 W | | | |
| Operating ambient temperature range | -25 ~ +60°C (> 45°C derating) | | | |
| 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 | VDE-AR-N 4105/EN 50549-10 & EN 50549-1/EN50549SW/EN 50549FI/DK1 & DK2 | | | |
| Safety standard | IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-3 | | | |
| Features | | | | |
| DC connection | Quick connection plug | | | |
| AC connection | Quick connection plug | | | |
| Display | LED indicator & Bluetooth + APP | | | |
| Communication | CAN, RS485, Optional: Wi-Fi, Cellular, LAN | | | |

S6-EA3P(5-10)KAA-NV-YD-H-PRO

Solis Three Phase High Voltage AC-Coupled Inverters

3 Unique Advantages

- ★ Supports connection to single-phase grid (Netherlands only) and three-phase unbalanced output, each phase supports output max. 50% rated inverter power
- ★ For households equipped with Solis grid-tied inverters: Works seamlessly with Solis grid-tied inverters to form a zero-export system
- ★ For households with third-party grid-tied inverters: Supports AC coupling for PV, enabling flexible system expansion and retrofitting

6 Leading Advantages

- Supports battery charge/discharge current up to 50A. Compatible with 50Ah battery cells to reduce initial investment
- Supports SG-Ready heat pump connectivity for smarter home energy applications
- Compact, space-saving design adapts flexibly to narrow installation environments such as lofts and corners
- SolisCloud: Smart remote control, AI optimisation, and instant troubleshooting - all in one platform
- Ingress protection IP66, adapting to harsh ambient conditions
- 4.3 inch touchable LCD screen. More convenient and efficient screen operations

Models:

S6-EA3P5KAA-NV-YD-H-PRO

S6-EA3P6KAA-NV-YD-H-PRO

S6-EA3P8KAA-NV-YD-H-PRO

S6-EA3P10KAA-NV-YD-H-PRO



DATASHEET

| Models | 5K | 6K | 8K | 10K |
|--|--|---------------|-----------------|-----------------|
| Battery | | | | |
| Battery type | Li-ion | | | |
| Battery voltage range | 120 - 700 V | | | |
| Charge / discharge current | 0 - 25 A | 0 - 30 A | 0 - 40 A | 0 - 50 A |
| Battery Isc | 80 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 / 7.3 A | 9.1 A / 8.7 A | 12.2 A / 11.6 A | 15.2 A / 14.5 A |
| Power factor | > 0.99 (0.8 leading - 0.8 lagging) | | | |
| THDi | < 3% | | | |
| Input AC (Grid side) | | | | |
| Max. input power | 5 kW | 6 kW | 8 kW | 10 kW |
| Rated input current | 7.6 A / 7.3 A | 9.1 A / 8.7 A | 12.2 A / 11.6 A | 15.2 A / 14.5 A |
| Rated input voltage | 3/N/PE, 380 V / 400 V | | | |
| Efficiency | | | | |
| BAT charged / discharged to AC max. efficiency | 97.32% | 97.34% | 97.50% | |
| Protection | | | | |
| Anti-islanding protection | Yes | | | |
| Output over current protection | Yes | | | |
| Short circuit protection | Yes | | | |
| Battery reverse protection | Yes | | | |
| Protection class / Over voltage category | I / II (Battery), III (Main) | | | |
| Surge protection | AC Type II (Optional) | | | |
| General Data | | | | |
| Max. power per phase | 50% rated power | | | |
| Dimensions (W × H × D) | 448 × 413 × 214 mm | | | |
| Weight | 20 kg | | | |
| Topology | Non-isolated | | | |
| Self-consumption (night) | < 25 W | | | |
| Operating ambient temperature range | -25 ~ +60°C (> 45°C derating) | | | |
| Relative humidity | 0 - 100% | | | |
| Ingress protection | IP66 | | | |
| Noise emission (typical) | < 47 dB(A) | | | |
| Cooling concept | Natural cooling | | | |
| Max. operation altitude | 4000 m | | | |
| Grid connection standard | EN 50549-10 & EN 50549-1, G98, G99, G99 NI, VDE-AR-N 4105/VDE V 0124, C10/11 | | | |
| Safety standard | IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-3 | | | |
| Features | | | | |
| DC connection | Quick connection plug | | | |
| AC connection | Quick connection plug | | | |
| Display | 4.3" touchable LCD display & Bluetooth + APP | | | |
| Communication | CAN, RS485-19200, Optional: Wi-Fi, Cellular, LAN | | | |

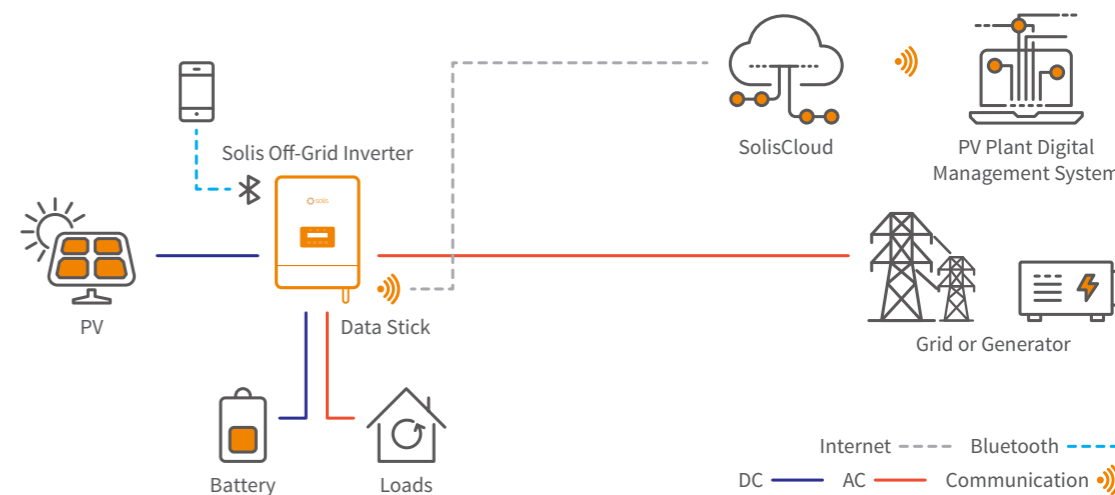
Off-grid Energy Storage Solutions



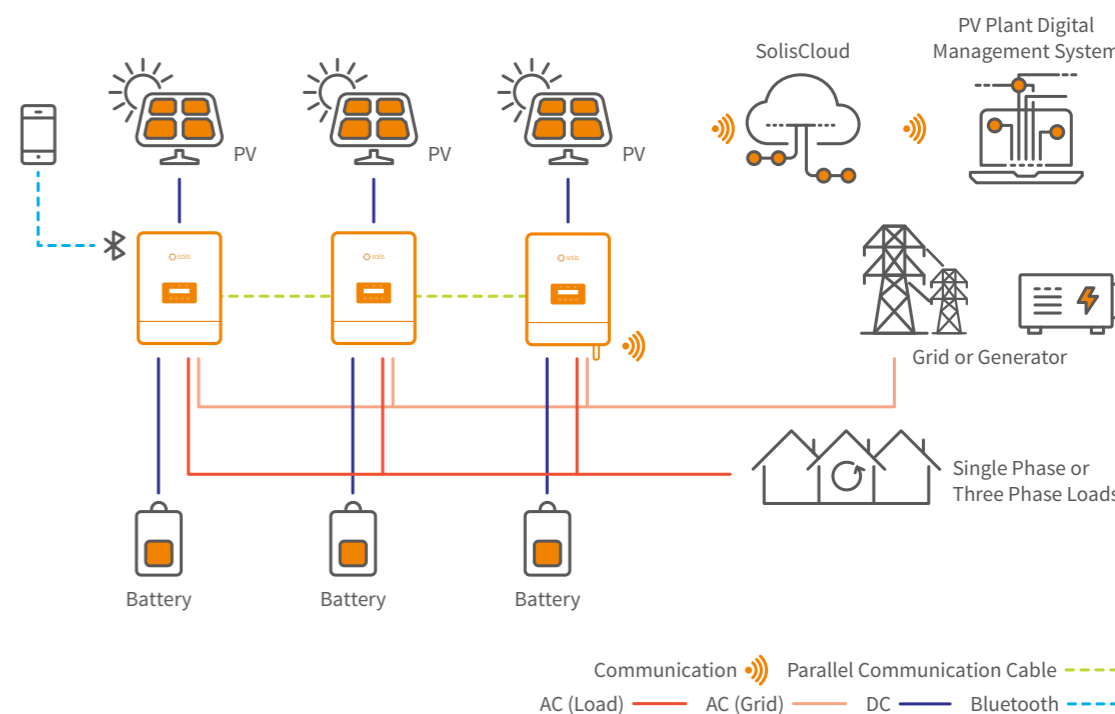
Solis EO series inverter is designed for residential off-grid systems in the countries without stable grid power, which can work with batteries to supply power to load and can also charge the batteries through PV plants, grid or generator.

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-E01P(4-6)K-48**Solis Single Phase Low Voltage Off-Grid Inverters**

Applicable to all regions except Europe and Brazil

Features:

- Compatible with generator as backup power supply for off grid system
- Easily expand system capacity using parallel connections and AC coupling
- 10 seconds of 200% overload capability
- Multiple battery options including fast configuration for non-communicating batteries
- Support one click fast charging mode
- Supports dual backup load for intelligent load prioritizing

Models:

S6-E01P4K-48

S6-E01P5K-48

S6-E01P6K-48

**DATASHEET**

| Models | 4K | 5K | 6K |
|--|---|--------------|--------------|
| Solar Charger | | | |
| Max. usable PV input power | 5.5 kW | 6.5 kW | 6.5 kW |
| Max. input voltage | 500 V | | |
| Rated voltage | 360 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 | | 120 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 | | 6 kW |
| Max. charge / discharge current | 100 A | | 120 A |
| Communication | CAN | | |
| Inverter Output | | | |
| Rated output power | 4 kVA / 4 kW | 5 kVA / 5 kW | 6 kVA / 6 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 | 12 kVA |
| Max. output current | 20 A | 25 A | 30 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 | 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 | 30 A |
| Max. AC charge current | 60 A | 80 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 × 480 × 170 mm | | |
| Weight | 13.8 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 | | |

S6-E01P(4-5)K-48-EU

Solis Single Phase Low Voltage Off-Grid Inverters

Applicable only to Europe

Features:

- Compatible with generator as backup power supply for off grid system
- Easily expand system capacity using parallel connections and AC coupling
- 10 seconds of 200% overload capability
- Multiple battery options including fast configuration for non-communicating batteries
- Support one click fast charging mode
- Supports dual backup load for intelligent load prioritizing

Models:

S6-E01P4K-48-EU

S6-E01P5K-48-EU



DATASHEET

| Models | 4K | 5K |
|--|--------------|---|
| Solar Charger | | |
| Max. usable PV input power | 5.5 kW | 6.5 kW |
| Max. input voltage | | 500 V |
| Rated voltage | | 360 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 |

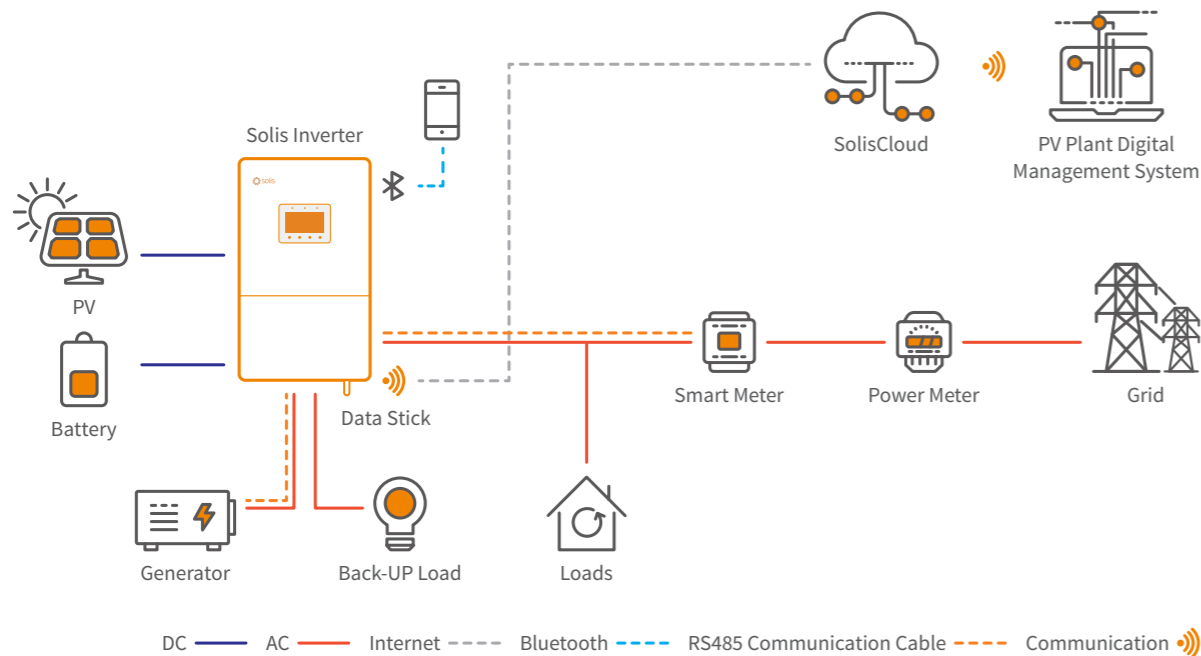
Commercial Energy Storage Solutions



Solis commercial storage products are highly integrated three-phase energy storage inverters, they have multiple functions, high safety level, strong energy supply reliability, which is a powerful tool for commercial PV energy storage projects.

They has 3/4/10 MPPT design, PV string current up to 21A, can be adapted to a variety of high-efficiency high-power PV module, to meet a variety of complex commercial roof application requirements; At the same time, the product can be compatible with a variety of generators can automatically control the generator start and stop, and support the generator port function expansion, to achieve backup loads redundancy or grid-tied PV system coupling networking; the product supports up to 6 parallel operation, and contains rich security protection and intelligent control operation functions, which is very suitable for small enterprises PV energy storage needs.

Commercial Energy Storage Solution



Models:

- S6-EH3P(29.9-60)K-H(21A)
- S6-EH3P(30-35)K-H-LV(21A)
- S6-EH3P(75-125)K10-NV-YD-H
- S6-EH3P(60-75)K10-LV-YD-H

Output:

29.9 kW - 125 kW

S6-EH3P(29.9-60)K-H(21A)

Solis Three Phase High Voltage Energy Storage Inverters

10 Unique Advantages

- ★ Supports PV input up to 100kW, maximising solar utilisation
- ★ Supports a maximum string input current of 21A, ensuring compatibility with high-power PV modules
- ★ Compatible with 100–314Ah battery modules, reducing overall system costs
- ★ Supports fast battery charging with a maximum charging current of 168A
- ★ Two independent battery ports for flexible configurations and easy capacity expansion
- ★ Delivers 160% overload for 2s in off-grid mode, ensuring stable startup of heavy loads
- ★ Offers flexible control for weak grid and genset-hybrid scenarios, reducing investment costs
- ★ SolisCloud: Smart remote control, AI optimisation, and instant troubleshooting - all in one platform
- ★ Integrates PV and storage for demand management and anti-reverse flow functions
- ★ Provides dynamic reactive power compensation to improve grid power factor and reduce reactive power charges

6 Leading Advantages

- Supports both DC and AC coupling, for flexible retrofits and system expansions
- Ensures reliable backup power across diverse scenarios through battery reserve management
- Extends supply time for critical loads with intelligent load prioritization
- Offers a versatile three-in-one interface for seamless integration of on-grid PV, wind power, and diesel generators
- Achieves on- and off-grid transitions in less than 10ms, ensuring an uninterrupted power supply
- Supports multi-unit parallel operation up to 600kW (Solis STS cabinet recommended for systems over 6 units)

Models:

S6-EH3P29.9K-H(21A) / S6-EH3P30K-H(21A)

S6-EH3P40K-H(21A) / S6-EH3P49K-H(21A)

S6-EH3P50K-H(21A) / S6-EH3P60K-H(21A)



DATASHEET

| Models | 29.9K | 30K | 40K | 49K | 50K | 60K |
|---|---|-----------------|-------------------|-----------------|-----------------|-----------------|
| Input DC (PV side) | | | | | | |
| Recommended max. PV array size | 59.8 kW | 60 kW | 80 kW | 98 kW | 100 kW | 100 kW |
| Max. usable PV input power | 59.8 kW | 60 kW | 80 kW | 98 kW | 100 kW | 100 kW |
| Max. input voltage | 1000 V | | | | | |
| Rated voltage | 600 V | | | | | |
| Start-up voltage | 180 V | | | | | |
| MPPT voltage range | 150 - 850 V | | | | | |
| Max. input current | 3 × 42 A | | | | 4 × 42 A | |
| Max. current per DC input | 42 A | | | | | |
| Max. current per PV string | 21 A | | | | | |
| Max. short circuit current | 3 × 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 current | 80 A × 2 | | | | | |
| Number of battery ports | 2 | | | | | |
| Max. charge / discharge power of each input | 32.1 kW | 33 kW | | | 35 kW | |
| Communication | CAN / RS485 | | | | | |
| Output AC (Back-up) | | | | | | |
| Rated output power | 29.9 kW | 30 kW | 40 kW | 49 kW | 50 kW | 60 kW |
| Max. apparent output power | 1.6 times of rated power, 2 s; 1.5 times 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 | | | | | |
| THDv (@linear load) | < 2% | | | | | |
| Input AC (Grid side) | | | | | | |
| Max. input current | 90.8 A / 86.4 A | 91.2 A / 86.6 A | 121.6 A / 115.4 A | 149 A / 141.4 A | 152 A / 144.4 A | 152 A / 152 A |
| Input AC (Generator) | | | | | | |
| Max. input power | 29.9 kW | 30 kW | 40 kW | 49 kW | 50 kW | 60 kW |
| Rated input current | 45.4 A / 43.2 A | 45.6 A / 43.3 A | 60.8 A / 57.7 A | 74.5 A / 70.7 A | 76 A / 72.2 A | 91.2 A / 86.6 A |
| Rated input voltage | 3/N/PE, 220 V / 380 V, 230 V / 400 V | | | | | |
| Rated input frequency | 50 Hz / 60 Hz | | | | | |
| Output AC (Grid side) | | | | | | |
| Rated output power | 29.9 kW | 30 kW | 40 kW | 49 kW | 50 kW | 60 kW |
| Max. apparent output power | 29.9 kVA | 30 kVA | 40 kVA | 49 kVA | 50 kVA | 60 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 | 45.4 A / 43.2 A | 45.6 A / 43.3 A | 60.8 A / 57.7 A | 74.5 A / 70.7 A | 76 A / 72.2 A | 91.2 A / 86.6 A |
| Power factor | > 0.99 (0.8 leading - 0.8 lagging) | | | | | |
| THDi | < 3% | | | | | |
| Efficiency | | | | | | |
| Max. efficiency | 97.7% | | | | | |
| EU efficiency | 97.3% | | | | | |
| Battery charged efficiency | 98.5% | | | | | |
| Battery discharged efficiency | 97.5% | | | | | |
| Protection | | | | | | |
| Surge protection | DC Type II / AC Type II | | | | | |
| Output over current protection | Yes | | | | | |
| Insulation resistance monitoring | Yes | | | | | |
| Residual current detection | Yes | | | | | |
| Integrated PV switch | Yes | | | | | |
| DC reverse-polarity protection | Yes | | | | | |
| Protection class / Over voltage category | I / PV II, battery II, AC III | | | | | |
| Integrated AFCI 2.0 | Optional | | | | | |
| General Data | | | | | | |
| Max. allowable phase imbalance (grid & back-up) | 100% | | | | | |
| Max. power per phase (grid & back-up) | 33% | | | | | |
| Dimensions (W × H × D) | 530 × 880 × 290 mm | | | | | |
| Weight | 76 kg | | | | | |
| Topology | Transformerless | | | | | |
| Operating ambient temperature range | -25 ~ +60°C | | | | | |
| Relative humidity | 0 - 100% | | | | | |
| Ingress protection | IP66 | | | | | |
| Cooling concept | Intelligent redundant fan-cooling | | | | | |
| Max. operation altitude | 4000 m | | | | | |
| Grid connection standard | G99, VDE-AR-N 4105/VDE V 0124, EN 50549-1/EN 50549-10, PTPIREE, VDE 0126/XP C15/VFR:2019, NTS 631/RD 1699/RD 244/UNE 217002, CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, DEWA, MEA, PEA, PORTARIA Nº 140/PORTARIA Nº 515 | | | | | |
| Safety / EMC standard | IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4, EN 55011 | | | | | |
| Features | | | | | | |
| PV connection | MC4 connector | | | | | |
| Battery connection | Terminal connector | | | | | |
| AC connection | OT terminal | | | | | |
| Display | 7.0" LCD display & Bluetooth + APP | | | | | |
| Communication interface | Standard: WIFI+LAN+Bluetooth, CAN-BMS×2, CAN-Parallel×2, RS485-Meter, RS485, DRM, DI×3, DO×3; Optional: 4G | | | | | |

S6-EH3P(30-35)K-H-LV(21A)

Solis Three Phase High Voltage Energy Storage Inverters

10 Unique Advantages

- ★ Supports up to 2x rated PV input, maximizing solar energy utilization
- ★ Supports a maximum string input current of 21A, ensuring compatibility with high-power PV modules
- ★ Compatible with 100–314Ah battery modules, reducing overall system costs
- ★ Supports fast battery charging with a maximum charging current of 160A
- ★ Two independent battery ports for flexible configurations and easy capacity expansion
- ★ Delivers 160% overload for 2s in off-grid mode, ensuring stable startup of heavy loads
- ★ Offers flexible control for weak grid and genset-hybrid scenarios, reducing investment costs
- ★ SolisCloud: Smart remote control, AI optimisation, and instant troubleshooting - all in one platform
- ★ Integrates PV and storage for demand management and anti-reverse flow functions
- ★ Provides dynamic reactive power compensation to improve grid power factor and reduce reactive power charges

6 Leading Advantages

- Supports both DC and AC coupling, for flexible retrofits and system expansions
- Ensures reliable backup power across diverse scenarios through battery reserve management
- Extends supply time for critical loads with intelligent load prioritization
- Offers a versatile three-in-one interface for seamless integration of on-grid PV, wind power, and diesel generators
- Achieves on- and off-grid transitions in less than 10ms, ensuring an uninterrupted power supply
- Supports multi-unit parallel operation up to 350kW (Solis STS cabinet recommended for systems over 6 units)



Models:

S6-EH3P30K-H-LV(21A)

S6-EH3P35K-H-LV(21A)

DATASHEET

| Models | 30K | 35K |
|---|---|-----------------|
| Input DC (PV side) | | |
| Recommended max. PV array size | 60 kW | 70 kW |
| Max. usable PV input power | 60 kW | 70 kW |
| Max. input voltage | | 1000 V |
| Rated voltage | | 600 V |
| Start-up voltage | | 180 V |
| MPPT voltage range | | 150 - 850 V |
| Max. input current | | 3 × 42 A |
| Max. current per DC input | | 42 A |
| Max. current per PV string | | 21 A |
| Max. short circuit current | | 3 × 60 A |
| MPPT number / Max. input strings number | | 3 / 6 |
| Battery | | |
| Battery type | | Li-ion |
| Battery voltage range | | 150 - 800 V |
| Max. charge / discharge current | | 80 A × 2 |
| Number of battery ports | | 2 |
| Max. charge / discharge power of each input | 33 kW | 35 kW |
| Communication | | CAN / RS485 |
| Output AC (Back-up) | | |
| Rated output power | 30 kW | 35 kW |
| Max. apparent output power | 1.6 times of rated power, 2 s; 1.5 times of rated power, 10 s | |
| Back-up switch time | < 10 ms | |
| Rated output voltage | 3/(N)/PE, 127 V / 220 V; 3/(N)/PE, 133 V / 230 V | |
| Rated frequency | 50 Hz / 60 Hz | |
| THDv (@linear load) | < 2% | |
| Input AC (Grid side) | | |
| Max. input current | 152 A / 152 A | |
| Input AC (Generator) | | |
| Max. input power | 30 kW | 35 kW |
| Rated input current | 78.7 A / 75.3 A | 91.8 A / 87.8 A |
| Rated input voltage | 3/(N)/PE, 127 V / 220 V; 3/(N)/PE, 133 V / 230 V | |
| Rated input frequency | 50 Hz / 60 Hz | |
| Output AC (Grid side) | | |
| Rated output power | 30 kW | 35 kW |
| Max. apparent output power | 30 kVA | 35 kVA |
| Rated grid voltage | 3/(N)/PE, 127 V / 220 V; 3/(N)/PE, 133 V / 230 V | |
| Rated grid frequency | 50 Hz / 60 Hz | |
| Rated grid output current | 78.7 A / 75.3 A | 91.8 A / 87.8 A |
| Power factor | > 0.99 (0.8 leading - 0.8 lagging) | |
| THDi | < 3% | |
| Efficiency | | |
| Max. efficiency | 96.3% | |
| EU efficiency | 95.5% | |
| Battery charged efficiency | 97.4% | |
| Battery discharged efficiency | 95.8% | |
| Protection | | |
| Surge protection | DC Type II / AC Type II | |
| Output over current protection | Yes | |
| Insulation resistance monitoring | Yes | |
| Residual current detection | Yes | |
| Integrated PV switch | Yes | |
| DC reverse-polarity protection | Yes | |
| Protection class / Over voltage category | I / PV II, battery II, AC III | |
| Integrated AFCI 2.0 | Optional | |
| General Data | | |
| Max. allowable phase imbalance (grid & back-up) | 100% | |
| Max. power per phase (grid & back-up) | 33% | |
| Dimensions (W × H × D) | 530 × 880 × 290 mm | |
| Weight | 76 kg | |
| Topology | Transformerless | |
| Operating ambient temperature range | -25 ~ +60°C | |
| Relative humidity | 0 - 100% | |
| Ingress protection | IP66 | |
| Cooling concept | Intelligent redundant fan-cooling | |
| Max. operation altitude | 4000 m | |
| Grid connection standard | G99, VDE-AR-N 4105/VDE V 0124, EN 50549-1/EN 50549-10, PTPIREE, VDE 0126/XP C15/VFR:2019, NTS 631/RD 1699/RD 244/UNE 217002, CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, DEWA, MEA, PEA, PORTARIA N° 140/PORTARIA N° 515 | |
| Safety / EMC standard | IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4, EN 55011 | |
| Features | | |
| PV connection | MC4 connector | |
| Battery connection | Terminal connector | |
| AC connection | OT terminal | |
| Display | 7.0" LCD display & Bluetooth + APP | |
| Communication interface | Standard: WIFI+LAN+Bluetooth, CAN-BMS×2, CAN-Parallel×2, RS485-Meter, RS485, DRM, DI×3, DO×3; Optional: 4G | |

S6-EH3P(75-125)K10-NV-YD-H

Solis Three Phase High Voltage Energy Storage Inverters

12 Unique Advantages

- ★ Supports up to 2x rated PV input, maximizing solar energy utilization
- ★ Supports a maximum string input current of 21A, ensuring compatibility with high-power PV modules
- ★ Compatible with 100–314Ah battery modules, reducing overall system costs
- ★ Supports fast battery charging with a maximum charging current of 200A
- ★ Two independent battery ports for flexible configurations and easy capacity expansion
- ★ Delivers 160% overload for 200ms in off-grid mode, ensuring stable startup of heavy loads
- ★ Offers flexible control for weak grid and genset-hybrid scenarios, reducing investment costs
- ★ SolisCloud: Smart remote control, AI optimisation, and instant troubleshooting - all in one platform
- ★ Integrates PV and storage for demand management and anti-reverse flow functions
- ★ Provides dynamic reactive power compensation to improve grid power factor and reduce reactive power charges
- ★ Utility bypass function allows direct grid supply to backup loads
- ★ Patented cooling technology ensures reliable operation even under high-temperature conditions

6 Leading Advantages

- Supports both DC and AC coupling, for flexible retrofits and system expansions
- Ensures reliable backup power across diverse scenarios through battery reserve management
- Extends supply time for critical loads with intelligent load prioritization
- Offers a versatile three-in-one interface for seamless integration of on-grid PV, wind power, and diesel generators
- Achieves on- and off-grid transitions in less than 10ms, ensuring an uninterrupted power supply
- Supports multi-unit parallel operation up to 1.25MW (Solis STS cabinet recommended for systems over 6 units)

Models:

- S6-EH3P75K10-NV-YD-H
- S6-EH3P80K10-NV-YD-H
- S6-EH3P99.9K10-NV-YD-H
- S6-EH3P100K10-NV-YD-H
- S6-EH3P125K10-NV-YD-H



DATASHEET

| Models | 75K | 80K | 99.9K | 100K | 125K |
|--|---|-------------------|-------------------|-------------------|-------------------|
| Input DC (PV side) | | | | | |
| Recommended max. PV array size | 150 kW | 160 kW | 200 kW | 200 kW | 250 kW |
| Max. usable PV input power | 150 kW | 160 kW | 200 kW | 200 kW | 250 kW |
| Max. input voltage | 1000 V | | | | |
| Rated voltage | 600 V | | | | |
| Start-up voltage | 180 V | | | | |
| MPPT voltage range | 150 - 950 V | | | | |
| Max. input current | 10 × 42 A | | | | |
| Max. short circuit current | 10 × 60 A | | | | |
| MPPT number / Max. input strings number | 10 / 20 | | | | |
| Battery | | | | | |
| Battery type | Li-ion | | | | |
| Battery voltage range | 300 - 950 V | | | | |
| Max. charge / discharge current | 100 A × 2 / 100 A × 2 | | | | |
| Number of battery ports | 2 | | | | |
| Max. charge / discharge current of each port | 100 A | | | | |
| Communication | CAN / RS485 | | | | |
| Output AC (Back-up) | | | | | |
| Rated output power | 75 kW | 80 kW | 99.9 kW | 100 kW | 125 kW |
| Max. apparent output power | 75-100K: 1.6 times of rated power, 10 s; 2 times of rated power, 200 ms; 125K: 1.4 times of rated power, 10 s; 1.6 times of rated power, 200 ms | | | | |
| Back-up switch time | < 10 ms | | | | |
| Rated output voltage | 3/N/PE, 220 V / 380 V; 3/N/PE, 230 V / 400 V | | | | |
| Rated frequency | 50 Hz / 60 Hz | | | | |
| THDv (@linear load) | < 3% | | | | |
| Input AC (Grid side) | | | | | |
| Max. input current | 250 A | | | | |
| Input AC (Generator) | | | | | |
| Max. input power | 75 kW | 80 kW | 99.9 kW | 100 kW | 125 kW |
| Rated input current | 114.0 A / 108.3 A | 121.6 A / 115.5 A | 151.8 A / 144.2 A | 151.9 A / 144.3 A | 189.9 A / 180.4 A |
| Rated input voltage | 3/N/PE, 220 V / 380 V; 3/N/PE, 230 V / 400 V | | | | |
| Rated input frequency | 50 Hz / 60 Hz | | | | |
| Output AC (Grid side) | | | | | |
| Rated output power | 75 kW | 80 kW | 99.9 kW | 100 kW | 125 kW |
| Max. apparent output power | 75 kVA | 80 kVA | 99.9 kVA | 100 kVA | 125 kVA |
| Rated grid voltage | 3/N/PE, 220 V / 380 V; 3/N/PE, 230 V / 400 V | | | | |
| Rated grid frequency | 50 Hz / 60 Hz | | | | |
| Rated grid output current | 114 A / 108.3 A | 121.6 A / 115.5 A | 151.8 A / 144.2 A | 151.9 A / 144.3 A | 189.9 A / 180.4 A |
| Power factor | > 0.99 (0.8 leading - 0.8 lagging) | | | | |
| THDi | < 3% | | | | |
| Efficiency | | | | | |
| Max. efficiency | 97.5% | | | | |
| EU efficiency | 96.9% | 96.9% | 97.1% | 97.1% | 97.2% |
| BAT charged / discharged to AC max. efficiency | 97.0% | | | | |
| Protection | | | | | |
| Anti-islanding protection | Yes | | | | |
| Output over current protection | Yes | | | | |
| Short circuit protection | Yes | | | | |
| Integrated DC switch | Yes | | | | |
| DC reverse-polarity protection | Yes | | | | |
| Protection class / Over voltage category | I / DC II, AC III | | | | |
| Surge protection | DC Type II / AC Type II | | | | |
| Integrated AFCI 2.0 | Optional (Brazil: Yes) | | | | |
| General Data | | | | | |
| Max. power per phase (grid & back-up) | 25 kW | 26.66 kW | 33.3 kW | 33.33 kW | 41.66 kW |
| Dimensions (W × H × D) | 1174 × 814 × 400 mm | | | | |
| Weight | 170 kg | | | | |
| Topology | Transformerless | | | | |
| Operating ambient temperature range | -25 ~ +60°C | | | | |
| Relative humidity | 0 - 100% | | | | |
| Ingress protection | IP66 | | | | |
| Cooling concept | Intelligent redundant fan-cooling | | | | |
| Max. operation altitude | 3000 m | | | | |
| Grid connection standard ^① | G99, VDE-AR-N 4105/VDE V 0124, EN 50549-1&2/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; Brazil (75K: ORDINANCE (PORTARIA) NO.140, ORDINANCE NO. 515; 100K/125K: NBR 16149, NBR 16150, IEC 62116) | | | | |
| Safety / EMC standard ^② | 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 interface | Standard: WIFI+LAN+Bluetooth, CAN-BMS × 2, CAN-Parallel × 2, LAN, RS485-Meter, RS485, DRM, DI × 5, DO × 4; Optional: 4G | | | | |

^① This column only shows the planned certification standards. Please confirm the specific time of obtaining the standards with the local team.

S6-EH3P(60-75)K10-LV-YD-H

Solis Three Phase High Voltage Energy Storage Inverters

12 Unique Advantages

- ★ Supports up to 2x rated PV input, maximizing solar energy utilization
- ★ Supports a maximum string input current of 21A, ensuring compatibility with high-power PV modules
- ★ Compatible with 100–314Ah battery modules, reducing overall system costs
- ★ Supports fast battery charging with a maximum charging current of 200A
- ★ Two independent battery ports for flexible configurations and easy capacity expansion
- ★ Delivers 200% overload for 200ms in off-grid mode, ensuring stable startup of heavy loads
- ★ Offers flexible control for weak grid and genset-hybrid scenarios, reducing investment costs
- ★ SolisCloud: Smart remote control, AI optimisation, and instant troubleshooting - all in one platform
- ★ Integrates PV and storage for demand management and anti-reverse flow functions
- ★ Provides dynamic reactive power compensation to improve grid power factor and reduce reactive power charges
- ★ Utility bypass function allows direct grid supply to backup loads
- ★ Patented cooling technology ensures reliable operation even under high-temperature conditions

6 Leading Advantages

- Supports both DC and AC coupling, for flexible retrofits and system expansions
- Ensures reliable backup power across diverse scenarios through battery reserve management
- Extends supply time for critical loads with intelligent load prioritization
- Offers a versatile three-in-one interface for seamless integration of on-grid PV, wind power, and diesel generators
- Achieves on- and off-grid transitions in less than 10ms, ensuring an uninterrupted power supply
- Supports multi-unit parallel operation up to 750kW (Solis STS cabinet recommended for systems over 6 units)

Models:

S6-EH3P60K10-LV-YD-H

S6-EH3P75K10-LV-YD-H



DATASHEET

| Models | 60K | 75K |
|--|---|---|
| Input DC (PV side) | | |
| Recommended max. PV array size | 120 kW | 150 kW |
| Max. usable PV input power | 120 kW | 150 kW |
| Max. input voltage | | 1000 V |
| Rated voltage | | 600 V |
| Start-up voltage | | 180 V |
| MPPT voltage range | | 150 - 950 V |
| Max. input current | | 10 × 42 A |
| Max. short circuit current | | 10 × 60 A |
| MPPT number / Max. input strings number | | 10 / 20 |
| Battery | | |
| Battery type | | Li-ion |
| Battery voltage range | | 300 - 950 V |
| Max. charge / discharge current | | 100 A × 2 / 100 A × 2 |
| Number of battery ports | | 2 |
| Max. charge / discharge current of each port | | 100 A |
| Communication | | CAN / RS485 |
| Output AC (Back-up) | | |
| Rated output power | 60 kW | 75 kW |
| Max. apparent output power | 1.6 times of rated power, 10 s; 2 times of rated power, 200 ms | 1.4 times of rated power, 10 s; 1.6 times of rated power, 200 ms |
| Back-up switch time | | < 10 ms |
| Rated output voltage | | 3/(N)/PE, 127 V / 220 V; 3/(N)/PE, 133 V / 230 V |
| Rated frequency | | 50 Hz / 60 Hz |
| THDv (@linear load) | | < 3% |
| Input AC (Grid side) | | |
| Max. input current | | 250 A |
| Input AC (Generator) | | |
| Max. input power | 60 kW | 75 kW |
| Rated input current | 157.5 A / 150.6 A | 196.8 A / 188.2 A |
| Rated input voltage | | 3/(N)/PE, 127 V / 220 V; 3/(N)/PE, 133 V / 230 V |
| Rated input frequency | | 50 Hz / 60 Hz |
| Output AC (Grid side) | | |
| Rated output power | 60 kW | 75 kW |
| Max. apparent output power | 60 kVA | 75 kVA |
| Rated grid voltage | | 3/(N)/PE, 127 V / 220 V; 3/(N)/PE, 133 V / 230 V |
| Rated grid frequency | | 50 Hz / 60 Hz |
| Rated grid output current | 157.5 A / 150.6 A | 196.8 A / 188.2 A |
| Power factor | | > 0.99 (0.8 leading - 0.8 lagging) |
| THDi | | < 3% |
| Efficiency | | |
| Max. efficiency | | 96.0% |
| EU efficiency | 94.5% | 94.6% |
| BAT charged / discharged to AC max. efficiency | | 95.6% |
| Protection | | |
| Anti-islanding protection | | Yes |
| Output over current protection | | Yes |
| Short circuit protection | | Yes |
| Integrated DC switch | | Yes |
| DC reverse-polarity protection | | Yes |
| Protection class / Over voltage category | | I / DC II, AC III |
| Surge protection | | DC Type II / AC Type II |
| Integrated AFCI 2.0 | | Optional |
| General Data | | |
| Max. power per phase (grid & back-up) | 20 kW | 25 kW |
| Dimensions (W × H × D) | | 1174 × 814 × 400 mm |
| Weight | | 170 kg |
| Topology | | Transformerless |
| Operating ambient temperature range | | -25 ~ +60°C |
| Relative humidity | | 0 - 100% |
| Ingress protection | | IP66 |
| Cooling concept | | Intelligent redundant fan-cooling |
| Max. operation altitude | | 3000 m |
| Grid connection standard ^① | G99, VDE-AR-N 4105/VDE V 0124, EN 50549-1&2/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 ^② | 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 interface | Standard: WIFI+LAN+Bluetooth, CAN-BMS × 2, CAN-Parallel × 2, LAN, RS485-Meter, RS485, DRM, DI × 5, DO × 4; Optional: 4G | |

^① This column only shows the planned certification standards. Please confirm the specific time of obtaining the standards with the local team.

Residential Solar PV Solutions

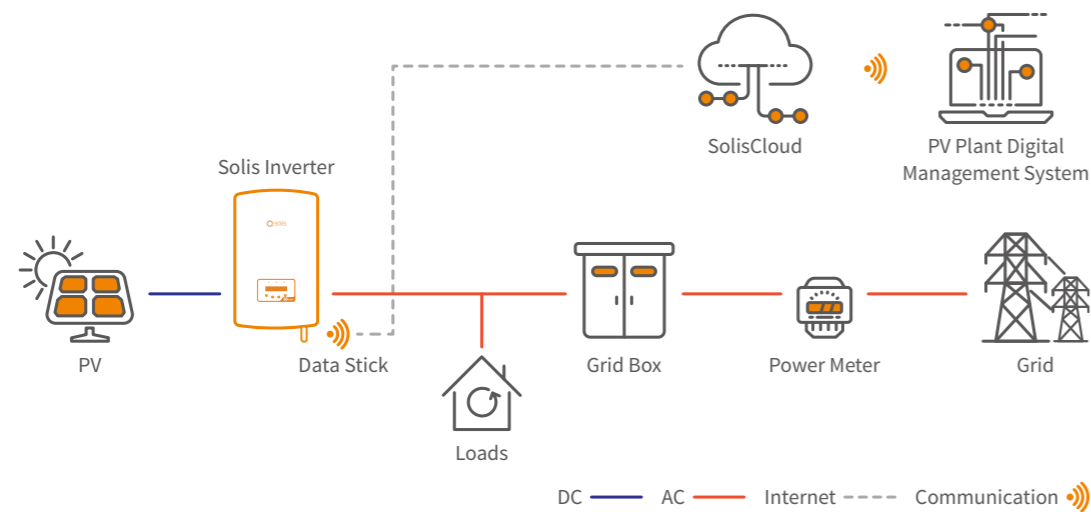


Solis residential string inverters are cost-effective and efficient green power leaders, providing smarter green power solutions for your residential buildings. A variety of models and solutions meet the needs of modern homes.

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-GR1P0.8K-UM
- S6-GR1P(0.7-3.6)K-M
- S6-GR1P(2.5-6)K
- S6-GR1P(2.5-6)K-S
- S6-GR1P(7-8)K02-NV-YD-HC
- S5-GR1P(7-10)K
- S6-GR1P(8-10)K03-NV-ND
- S5-GR3P(3-20)K
- S5-GR3P(5-10)K-LV

Output:

0.7 kW - 20 kW

S6-GR1P0.8K-UM**Solis Single Phase Grid-Tied Inverters****Features:**

- Integrated WiFi, easy to use
- Lightweight design, rack mounting, easy installation
- Suitable for balcony system

Models:

S6-GR1P0.8K-UM

**DATASHEET**

| Models | 0.8K |
|---|--|
| Input DC | |
| Recommended max. PV power | 1.2 kW |
| Max. input voltage | 500 V ^① |
| Rated voltage | 60 V |
| Start-up voltage | 40 V |
| MPPT voltage range | 30 - 500 V |
| Max. input current | 16 A |
| Max. short circuit current | 25 A |
| MPPT number / Max. input strings number | 1 / 1 |
| Output AC | |
| Rated output power | 0.8 kW |
| Max. apparent output power | 0.8 kVA |
| Max. output power | 0.8 kW |
| Rated grid voltage | 1/N/PE, 230 V |
| Rated grid frequency | 50 Hz |
| Rated grid output current | 3.5 A |
| Max. output current | 3.5 A |
| Power factor | > 0.99 (0.8 leading - 0.8 lagging) |
| THDi | < 3% |
| Efficiency | |
| Max. efficiency | 96.6% |
| MPPT efficiency | 99.5% |
| Protection | |
| Short circuit protection | Yes |
| Output over current protection | Yes |
| Surge protection | Yes |
| Grid monitoring | Yes |
| Anti-islanding protection | Yes |
| Temperature protection | Yes |
| General Data | |
| Dimensions (W × H × D) | 265 × 255 × 64 mm |
| Weight | 2.9 kg |
| Topology | Transformerless |
| Self-consumption (night) | < 1 W |
| Operating ambient temperature range | -25 ~ +60°C |
| Relative humidity | 0 - 100% |
| Ingress protection | IP65 |
| Noise emission (typical) | < 20 dB(A) |
| Cooling concept | Natural cooling |
| Max. operation altitude | 2000 m |
| Grid connection standard | VDE-AR-N 4105: 2018, TOR typeA |
| Safety / EMC standard | IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4 |
| Features | |
| DC connection | MC4 connector |
| AC connection | Quick connection plug |
| Display | LED indicator & Wi-Fi / Bluetooth + APP |
| Communication | Wi-Fi + Bluetooth |

① When actual input voltage is over 120V, a DC switch on the PV side and a qualified installer is required.

S6-GR1P(0.7-3.6)K-M

Solis Single Phase Grid-Tied Inverters

Features:

- Max. efficiency 97.3%
- Wide voltage range and low startup voltage
- Supports export power control
- AFCI protection, proactively reduces fire risk
- 24-hour load consumption monitoring
- Adaptive weak 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

| 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 | 550 V | | | | | | |
| Rated voltage | 200 V | | | 330 V | | | |
| Start-up voltage | 60 V | | | 90 V | | | |
| MPPT voltage range | 50 - 500 V | | | 80 - 500 V | | | |
| Max. input current | | | | 14 A | | | 19 A |
| Max. short circuit current | | | | 22 A | | | 24 A |
| MPPT number / Max. input strings number | | | | 1 / 1 | | | 1 / 2 |
| Output AC | | | | | | | |
| Rated output power | 0.7 kW | 1 kW | 1.5 kW | 2 kW | 2.5 kW | 3 kW | 3.6 kW |
| Max. apparent output power | 0.77 kVA | 1.1 kVA | 1.65 kVA | 2.2 kVA | 2.75 kVA | 3.3 kVA | 3.6 kVA |
| Max. output power | 0.77 kW | 1.1 kW | 1.65 kW | 2.2 kW | 2.75 kW | 3.3 kW | 3.6 kW |
| Rated grid voltage | 1/N/PE, 220 V / 230 V | | | | | | |
| Rated grid frequency | 50 Hz / 60 Hz | | | | | | |
| Rated grid output current | 3.2 A / 3.0 A | 4.5 A / 4.3 A | 6.8 A / 6.5 A | 9.1 A / 8.7 A | 11.4 A / 10.9 A | 13.6 A / 13 A | 16 A |
| Max. output current | 4.4 A | 5.2 A | 8.1 A | 10.5 A | 13.3 A | 15.7 A | 16 A |
| Power factor | > 0.99 (0.8 leading - 0.8 lagging) | | | | | | |
| THDi | < 3% | | | | | | |
| Efficiency | | | | | | | |
| Max. efficiency | 96.6% | | 96.6% | 97.1% | 97.1% | | 97.3% |
| EU efficiency | 95.3% | | 95.4% | 96.4% | 96.7% | | 96.8% |
| Protection | | | | | | | |
| DC reverse-polarity protection | | | | Yes | | | |
| Short circuit protection | | | | Yes | | | |
| Output over current protection | | | | Yes | | | |
| Surge protection | | | | Yes | | | |
| Grid monitoring | | | | Yes | | | |
| Anti-islanding protection | | | | Yes | | | |
| Temperature protection | | | | Yes | | | |
| Multi peak scan | | | | Yes | | | |
| Integrated AFCI 2.0 | | | | Optional | | | |
| Integrated DC switch | | | | Yes | | | |
| General Data | | | | | | | |
| Dimensions (W × H × D) | 310 × 373 × 160 mm | | | | | | |
| Weight | 7.7 kg | | | 8 kg | | | 8.1 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) | < 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, 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 | | | | | | |

S6-GR1P(2.5-6)K

Solis Single Phase Grid-Tied Inverters

Features:

- Max. efficiency 97.7%
- Wide voltage range and low startup voltage
- Supports export power control
- AFCI protection, proactively reduces fire risk
- 24-hour load consumption monitoring
- Adaptive weak grid

Models:

S6-GR1P2.5K / S6-GR1P3K

S6-GR1P3.6K / S6-GR1P4K

S6-GR1P4.6K / S6-GR1P5K

S6-GR1P6K



360° View

DATASHEET

| Models | 2.5K | 3K | 3.6K | 4K | 4.6K | 5K | 6K |
|---|---|-----------------|-----------------|------------------------------|-----------------|-----------------|--------|
| Input DC | | | | | | | |
| Recommended max. PV power | 3.75 kW | 4.5 kW | 5.4 kW | 6 kW | 6.9 kW | 7.5 kW | 9 kW |
| Max. input voltage | 550 V | | | | 600 V | | |
| Rated voltage | 250 V | | | | 330 V | | |
| Start-up voltage | 60 V | | | | 120 V | | |
| MPPT voltage range | 50 - 450 V | | | | 90 - 520 V | | |
| Max. input current | | | | 14 A / 14 A | | | |
| Max. short circuit current | | | | 22 A / 22 A | | | |
| MPPT number / Max. input strings number | | | | 2 / 2 | | | |
| Output AC | | | | | | | |
| Rated output power | 2.5 kW | 3 kW | 3.6 kW | 4 kW | 4.6 kW | 5 kW | 6 kW |
| Max. apparent output power | 2.8 kVA | 3.3 kVA | 4 kVA | 4.4 kVA | 5 kVA | 5 kVA | 6 kVA |
| Max. output power | 2.8 kW | 3.3 kW | 4 kW | 4.4 kW | 5 kW | 5 kW | 6 kW |
| Rated grid voltage | 1/N/PE, 220 V / 230 V | | | | | | |
| Rated grid frequency | 50 Hz / 60 Hz | | | | | | |
| Rated grid output current | 11.4 A / 10.9 A | 13.6 A / 13.0 A | 16.0 A / 15.7 A | 18.2 A / 17.4 A | 20.9 A / 20.0 A | 22.7 A / 21.7 A | 27.3 A |
| Max. output current | 13.3 A | 15.7 A | 16.0 A | 21.0 A | 23.8 A | 25.0 A | 27.3 A |
| Power factor | > 0.99 (0.8 leading - 0.8 lagging) | | | | | | |
| THDi | < 3% | | | | | | |
| Efficiency | | | | | | | |
| Max. efficiency | 97.3% | 97.3% | | | 97.6% | 97.7% | |
| EU efficiency | 96.5% | 96.6% | | | 97.1% | 97.1% | |
| Protection | | | | | | | |
| DC reverse-polarity protection | | | | Yes | | | |
| Short circuit protection | | | | Yes | | | |
| Output over current protection | | | | Yes | | | |
| Surge protection | | | | Yes | | | |
| Grid monitoring | | | | Yes | | | |
| Anti-islanding protection | | | | Yes | | | |
| Temperature protection | | | | Yes | | | |
| Multi peak scan | | | | 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(2.5-6)K-S

Solis Single Phase Grid-Tied Inverters

Features:

- String current up to 16A
- Supports export power control
- AFCI protection, proactively reduces fire risk
- Compact design for easy installation
- 24-hour load consumption monitoring
- Adaptive weak grid

Models:

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

S6-GR1P3.6K-S / S6-GR1P4K-S

S6-GR1P4.6K-S / S6-GR1P5K-S

S6-GR1P6K-S



DATASHEET

| Models | 2.5K | 3K | 3.6K | 4K | 4.6K | 5K | 6K |
|---|---|---------------|---------------|-----------------------------------|---------------|-----------------|-----------------|
| Input DC | | | | | | | |
| Recommended max. PV power | 3.75 kW | 4.5 kW | 5.4 kW | 6 kW | 6.9 kW | 7.5 kW | 9 kW |
| Max. input voltage | 550 V | | | | | | |
| Rated voltage | 250 V | | | | | | 330 V |
| Start-up voltage | 60 V | | | | | | 100 V |
| MPPT voltage range | 50 - 550 V | | | | | | 90 - 550 V |
| Max. input current | | | | 16 A / 16 A | | | |
| Max. short circuit current | | | | 22 A / 22 A | | | |
| MPPT number / Max. input strings number | | | | 2 / 2 | | | |
| Output AC | | | | | | | |
| Rated output power | 2.5 kW | 3 kW | 3.6 kW | 4 kW | 4.6 kW | 5 kW | 6 kW |
| Max. apparent output power | 2.5 kVA | 3 kVA | 3.6 kVA | 4 kVA | 4.6 kVA | 5 kVA | 6 kVA |
| Max. output power | 2.5 kW | 3 kW | 3.6 kW | 4 kW | 4.6 kW | 5 kW | 6 kW |
| Rated grid voltage | 1/N/PE, 220 V / 230 V | | | | | | |
| Rated grid frequency | 50 Hz / 60 Hz | | | | | | |
| Rated grid output current | 11.4 A / 10.9 A | 13.6 A / 13 A | 16 A / 15.7 A | 18.2 A / 17.4 A | 20.9 A / 20 A | 22.7 A / 21.7 A | 27.3 A / 26.1 A |
| Max. output current | 11.4 A | 13.6 A | 16 A | 18.2 A | 20.9 A | 22.7 A | 27.3 A |
| Power factor | > 0.99 (0.8 leading - 0.8 lagging) | | | | | | |
| THDi | < 3% | | | | | | |
| Efficiency | | | | | | | |
| Max. efficiency | 97.3% | 97.3% | | | 97.6% | 97.7% | |
| EU efficiency | 96.5% | 96.6% | | | 97.1% | 97.1% | |
| Protection | | | | | | | |
| DC reverse-polarity protection | | | | Yes | | | |
| Short circuit protection | | | | Yes | | | |
| Output over current protection | | | | Yes | | | |
| Surge protection | | | | Yes | | | |
| Grid monitoring | | | | Yes | | | |
| Anti-islanding protection | | | | Yes | | | |
| Temperature protection | | | | Yes | | | |
| Multi peak scan | | | | Yes | | | |
| Integrated AFCI 2.0 | | | | Optional | | | |
| Integrated DC switch | | | | Yes | | | |
| General Data | | | | | | | |
| Dimensions (W × H × D) | 330 × 371 × 161 mm | | | | | | |
| Weight | 8.2 kg | 8.3 kg | | | 8.9 kg | 9 kg | |
| Topology | Transformerless | | | | | | |
| Self-consumption (night) | < 1 W | | | | | | |
| Operating ambient temperature range | -25 ~ +60°C | | | | | | |
| Relative humidity | 0 - 100% | | | | | | |
| Ingress protection | IP66 | | | | | | |
| Noise emission (typical) | < 20 dB(A) | | | | | | |
| Cooling concept | Natural cooling | | | Natural cooling with internal fan | | | |
| Max. operation altitude | 4000 m | | | | | | |
| Grid connection standard | G98 or G99, VDE-AR-N 4105/VDE V 0124, EN 50549-1, VDE 0126/UTE C 15/VFR:2019, RD 1699/RD 244/UNE 206006/UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, EIFS 2018.2, IEC 62116, IEC 61727, IEC60068, IEC 61683, EN 50530, MEA, PEA | | | | | | |
| Safety / EMC standard | IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-3 | | | | | | |
| Features | | | | | | | |
| DC connection | MC4 connector | | | | | | |
| AC connection | Quick connection plug | | | | | | |
| Display | LED digital display & Bluetooth + APP | | | | | | |
| Communication | RS485, USB, Optional: Wi-Fi, GPRS | | | | | | |

S6-GR1P(7-8)K02-NV-YD-HC

Solis Single Phase Grid-Tied Inverters

Features:

- Max. efficiency 97.7%
- String current up to 18A/32A
- Supports export power control
- AFCI protection, proactively reduces fire risk
- 24-hour load consumption monitoring
- Adaptive weak grid

Models:

S6-GR1P7K02-NV-YD-HC

S6-GR1P8K02-NV-YD-HC



DATASHEET

| 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 |
| Temperature protection | | Yes |
| Multi peak scan | | 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 | | G99 |
| 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 |

S5-GR1P(7-10)K

Solis Single Phase Grid-Tied Inverters

Features:

- Max. efficiency 98.0%
- Wide voltage range and low startup voltage
- 3 MPPT design, suitable for multi-facing roof
- AFCI protection, proactively reduces fire risk
- 24-hour load consumption monitoring
- Adaptive weak grid

Models:

S5-GR1P7K / S5-GR1P8K

S5-GR1P9K / S5-GR1P10K



DATASHEET

| Models | 7K | 8K | 9K | 10K |
|---|--|-----------------------------------|-----------------|-----------------|
| Input DC | | | | |
| Recommended max. PV power | 10.5 kW | 12 kW | 13.5 kW | 15 kW |
| Max. input voltage | 600 V | | | |
| Rated voltage | 330 V | | | |
| Start-up voltage | 120 V | | | |
| MPPT voltage range | 100 - 500 V | | | |
| Max. input current | 14 A / 14 A / 14 A | | | |
| Max. short circuit current | 22 A / 22 A / 22 A | | | |
| MPPT number / Max. input strings number | 3 / 3 | | | |
| Output AC | | | | |
| Rated output power | 7 kW | 8 kW | 9 kW | 10 kW |
| Max. apparent output power | 7.7 kVA | 8.8 kVA | 9.9 kVA | 10 kVA |
| Max. output power | 7.7 kW | 8.8 kW | 9.9 kW | 10 kW |
| Rated grid voltage | 1/N/PE, 220 V / 230 V | | | |
| Rated grid frequency | 50 Hz / 60 Hz | | | |
| Rated grid output current | 31.8 A / 30.4 A | 36.4 A / 34.8 A | 40.9 A / 39.1 A | 45.5 A / 43.5 A |
| Max. output current | 33.7 A | 36.6 A | 41.3 A | 45.9 A |
| Power factor | > 0.99 (0.8 leading - 0.8 lagging) | | | |
| THDi | < 3% | | | |
| Efficiency | | | | |
| Max. efficiency | 98.0% | | | |
| EU efficiency | 97.1% | | | |
| Protection | | | | |
| DC reverse-polarity protection | Yes | | | |
| Short circuit protection | Yes | | | |
| Output over current protection | Yes | | | |
| Surge protection | Yes | | | |
| Grid monitoring | Yes | | | |
| Anti-islanding protection | Yes | | | |
| Temperature protection | Yes | | | |
| Multi peak scan | Yes | | | |
| Integrated AFCI 2.0 | Optional | | | |
| Integrated DC switch | Yes | | | |
| General Data | | | | |
| Dimensions (W × H × D) | 333 × 579 × 253 mm | | | |
| Weight | 18.5 kg | | | |
| Topology | Transformerless | | | |
| Self-consumption (night) | < 1 W | | | |
| Operating ambient temperature range | -25 ~ +60°C | | | |
| Relative humidity | 0 - 100% | | | |
| Ingress protection | IP66 | | | |
| Noise emission (typical) | < 30 dB(A) | | | |
| Cooling concept | Natural cooling | Natural cooling with internal fan | | |
| Max. operation altitude | 4000 m | | | |
| Grid connection standard | G99, IEC 62116, IEC 61727, IEC 61683 | | | |
| Safety / EMC standard | IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4 | | | |
| Features | | | | |
| DC connection | MC4 connector | | | |
| AC connection | OT Terminal | | | |
| Display | LCD | | | |
| Communication | RS485, Optional: Wi-Fi, GPRS | | | |

S6-GR1P(8-10)K03-NV-ND

Solis Single Phase Grid-Tied Inverters

Features:

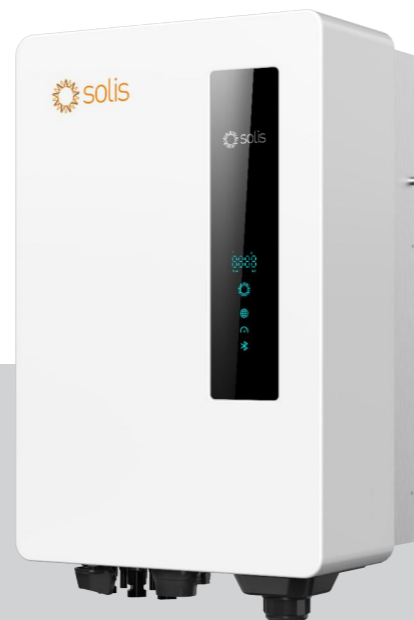
- String current up to 20A
- 3 MPPT design, suitable for multi-facing roof
- Wide voltage range and low startup voltage
- Supports export power control
- Integrated CT and Meter interface
- AFCI protection, proactively reduces fire risk
- 24-hour load consumption monitoring

Models:

S6-GR1P8K03-NV-ND

S6-GR1P9K03-NV-ND

S6-GR1P10K03-NV-ND



DATASHEET

| Models | 8K | 9K | 10K |
|---|---|-----------------|-----------------|
| Input DC | | | |
| Recommended max. PV power | 12 kW | 13.5 kW | 15 kW |
| Max. input voltage | 550 V | | |
| Rated voltage | 330 V | | |
| Start-up voltage | 60 V | | |
| MPPT voltage range | 50 - 500 V | | |
| Max. input current | 20 A / 20 A / 20 A | | |
| Max. short circuit current | 25 A / 25 A / 25 A | | |
| MPPT number / Max. input strings number | 3 / 3 | | |
| Output AC | | | |
| Rated output power | 8 kW | 9 kW | 10 kW |
| Max. apparent output power | 8 kVA | 9 kVA | 10 kVA |
| Max. output power | 8 kW | 9 kW | 10 kW |
| Rated grid voltage | 1/N/PE, 220 V / 230 V | | |
| Rated grid frequency | 50 Hz / 60 Hz | | |
| Rated grid output current | 36.4 A / 34.8 A | 40.9 A / 39.1 A | 45.5 A / 43.5 A |
| Max. output current | 36.4 A | 40.9 A | 45.5 A |
| Power factor | > 0.99 (0.8 leading - 0.8 lagging) | | |
| THDi | < 3% | | |
| Efficiency | | | |
| Max. efficiency | 98.0% | | |
| EU efficiency | 97.1% | | |
| Protection | | | |
| DC reverse-polarity protection | Yes | | |
| Short circuit protection | Yes | | |
| Output over current protection | Yes | | |
| Surge protection | Yes | | |
| Grid monitoring | Yes | | |
| Anti-islanding protection | Yes | | |
| Temperature protection | Yes | | |
| Multi peak scan | Yes | | |
| Integrated AFCI 2.0 | Optional | | |
| Integrated DC switch | Yes | | |
| General Data | | | |
| Dimensions (W × H × D) | 335 × 510 × 220 mm | | |
| Weight | 16.1 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) | < 40 dB(A) | | |
| Cooling concept | Natural cooling with internal fan | | |
| Max. operation altitude | 4000 m | | |
| Grid connection standard | IEC 62116, IEC 61727, IEC 61683, G99, EN 50549-1, EN 50549-10 | | |
| 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-GR3P(3-20)K

Solis Three Phase Grid-Tied Inverters

Features:

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

Models:

S5-GR3P3K / S5-GR3P4K

S5-GR3P5K / S5-GR3P6K

S5-GR3P8K / S5-GR3P9K

S5-GR3P10K / S5-GR3P12K

S5-GR3P13K / S5-GR3P15K

S5-GR3P17K / S5-GR3P20K



360° View

DATASHEET

| Models | 3K | 4K | 5K | 6K | 8K | 9K | 10K | 12K | 13K | 15K | 17K | 20K |
|---|---|---------------|---------------|---------------|-----------------|-----------------|-------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Input DC | | | | | | | | | | | | |
| Recommended max. PV power | 4.5 kW | 6 kW | 7.5 kW | 9 kW | 12 kW | 13.5 kW | 15 kW | 18 kW | 19.5 kW | 22.5 kW | 25.5 kW | 30 kW |
| Max. input voltage | 1100 V | | | | | | | | | | | |
| Rated voltage | 600 V | | | | | | | | | | | |
| Start-up voltage | 180 V | | | | | | | | | | | |
| MPPT voltage range | 160 - 1000 V | | | | | | | | | | | |
| Max. input current | 16 A / 16 A | | | | | | 32 A / 32 A | | | | | |
| Max. short circuit current | 20 A / 20 A | | | | | | 40 A / 40 A | | | | | |
| MPPT number / Max. input strings number | 2 / 2 | | | | | | 2 / 4 | | | | | |
| Output AC | | | | | | | | | | | | |
| Rated output power | 3 kW | 4 kW | 5 kW | 6 kW | 8 kW | 9 kW | 10 kW | 12 kW | 13 kW | 15 kW | 17 kW | 20 kW |
| Max. apparent output power | 3.3 kVA | 4.4 kVA | 5.5 kVA | 6.6 kVA | 8.8 kVA | 9.9 kVA | 11 kVA | 13.2 kVA | 14.3 kVA | 16.5 kVA | 18.7 kVA | 22 kVA |
| Max. output power | 3.3 kW | 4.4 kW | 5.5 kW | 6.6 kW | 8.8 kW | 9.9 kW | 11 kW | 13.2 kW | 14.3 kW | 16.5 kW | 18.7 kW | 22 kW |
| Rated grid voltage | 3/N/PE, 220 V / 380 V, 230 V / 400 V | | | | | | | | | | | |
| Rated grid frequency | 50 Hz / 60 Hz | | | | | | | | | | | |
| Rated grid output current | 4.6 A / 4.3 A | 6.1 A / 5.8 A | 7.6 A / 7.2 A | 9.1 A / 8.7 A | 12.2 A / 11.5 A | 13.7 A / 13.0 A | 15.2 A / 14.4 A | 18.2 A / 17.3 A | 19.8 A / 18.8 A | 22.8 A / 21.7 A | 25.8 A / 24.6 A | 30.4 A / 28.9 A |
| Max. output current | 4.7 A | 6.4 A | 7.9 A | 9.5 A | 12.7 A | 14.3 A | 15.9 A | 19.1 A | 20.7 A | 23.8 A | 27 A | 31.8 A |
| Power factor | > 0.99 (0.8 leading - 0.8 lagging) | | | | | | | | | | | |
| THDi | < 2% | | | | | | | | | | | |
| Efficiency | | | | | | | | | | | | |
| Max. efficiency | 98.3% | | | 98.5% | | | 98.6% | | | 98.7% | | |
| EU efficiency | 97.7% | | | 97.9% | | | 98.0% | | | 98.1% | | |
| Protection | | | | | | | | | | | | |
| DC reverse-polarity protection | Yes | | | | | | | | | | | |
| Short circuit protection | Yes | | | | | | | | | | | |
| Output over current protection | Yes | | | | | | | | | | | |
| Surge protection | Yes | | | | | | | | | | | |
| Grid monitoring | Yes | | | | | | | | | | | |
| Anti-islanding protection | Yes | | | | | | | | | | | |
| Temperature protection | Yes | | | | | | | | | | | |
| Multi peak scan | Yes | | | | | | | | | | | |
| Integrated AFCI 2.0 | Optional | | | | | | | | | | | |
| Integrated DC switch | Yes | | | | | | | | | | | |
| General Data | | | | | | | | | | | | |
| Dimensions (W × H × D) | 310 × 563 × 219 mm | | | | | | | | | | | |
| Weight | 16.5 kg | 16.9 kg | | 17.9 kg | | | 19.6 kg | | | 20.8 kg | | |
| Topology | Transformerless | | | | | | | | | | | |
| Self-consumption (night) | < 1 W | | | | | | | | | | | |
| Operating ambient temperature range | -25 ~ +60°C | | | | | | | | | | | |
| Relative humidity | 0 - 100% | | | | | | | | | | | |
| Ingress protection | IP66 | | | | | | | | | | | |
| Noise emission (typical) | < 30 dB(A) | | | | | | < 60 dB(A) | | | | | |
| Cooling concept | Natural cooling | | | | | | 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, IEC 60068, IEC 61683, EN 50530 | | | | | | | | | | | |
| Safety / EMC standard | IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4 | | | | | | | | | | | |
| Features | | | | | | | | | | | | |
| DC connection | MC4 connector | | | | | | | | | | | |
| AC connection | Quick connection plug | | | | | | | | | | | |
| Display | LCD | | | | | | | | | | | |
| Communication | RS485, Optional: Wi-Fi, GPRS | | | | | | | | | | | |

S5-GR3P(5-10)K-LV

Solis Three Phase Grid-Tied Inverters

Features:

- Max. efficiency 98.0%
- > 150% DC/AC ratio
- Supports export power control
- AFCI protection, proactively reduces fire risk
- 24-hour load consumption monitoring
- Adaptive weak grid
- IP66

Models:

S5-GR3P5K-LV

S5-GR3P6K-LV

S5-GR3P10K-LV



360° View

DATASHEET

| Models | 5K | 6K | 10K |
|---|---|---------|-------------------------|
| Input DC | | | |
| Recommended max. PV power | 7.5 kW | 9 kW | 15 kW |
| Max. input voltage | 1100 V | | |
| Rated voltage | 330 V | | |
| Start-up voltage | 180 V | | |
| MPPT voltage range | 160 - 500 V | | |
| Max. input current | 16 A / 16 A | | 32 A / 32 A |
| Max. short circuit current | 20 A / 20 A | | 40 A / 40 A |
| MPPT number / Max. input strings number | 2 / 2 | | 2 / 4 |
| Output AC | | | |
| Rated output power | 5 kW | 6 kW | 10 kW |
| Max. apparent output power | 5.5 kVA | 6.6 kVA | 11 kVA |
| Max. output power | 5.5 kW | 6.6 kW | 11 kW |
| Rated grid voltage | 3/(N)/PE, 208 V / 220 V / 240 V | | |
| Rated grid frequency | 50 Hz / 60 Hz | | |
| Rated grid output current | 13.1 A | 15.7 A | 26.2 A |
| Max. output current | 14.4 A | 16.7 A | 28.8 A |
| Power factor | > 0.99 (0.8 leading - 0.8 lagging) | | |
| THDi | < 2% | | |
| Efficiency | | | |
| Max. efficiency | 98.0% | | |
| EU efficiency | 97.5% | | |
| Protection | | | |
| DC reverse-polarity protection | Yes | | |
| Short circuit protection | Yes | | |
| Output over current protection | Yes | | |
| Surge protection | Yes | | |
| Grid monitoring | Yes | | |
| Anti-islanding protection | Yes | | |
| Temperature protection | Yes | | |
| Multi peak scan | Yes | | |
| Integrated AFCI 2.0 | Optional | | |
| Integrated DC switch | Yes | | |
| General Data | | | |
| Dimensions (W × H × D) | 310 × 563 × 219 mm | | |
| Weight | 17.6 kg | 21.1 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) | < 30 dB(A) | | < 60 dB(A) |
| Cooling concept | Natural cooling | | 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, IEC 60068, IEC 61683, EN 50530 | | |
| Safety / EMC standard | IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4 | | |
| Features | | | |
| DC connection | MC4 connector | | |
| AC connection | Quick connection plug | | |
| Display | LCD | | |
| Communication | RS485, Optional: Wi-Fi, GPRS | | |

Residential Power Plant Case Study



📍 Finland
⚡ 6.7kW 📦 S5-GR3P(3-20)K



📍 USA
⚡ 16kW 📦 Solis-(2.5-6)K-4G-US

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.



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



📍 UK
⚡ 2.8kW 📦 S6-GR1P(2.5-6)K

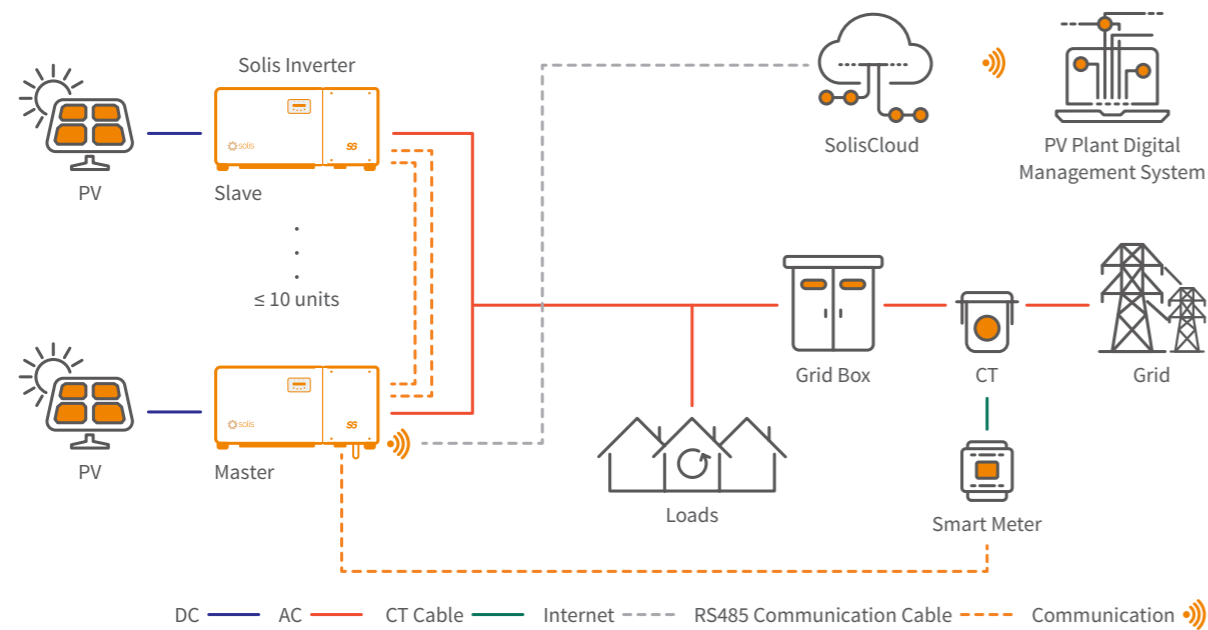


📍 China
⚡ 2.7MW
📦 GCI-3P(12-25)K-5G



Commercial & Industrial Solar PV Solutions

● Master-Slave Export Limitation Solution (without EPM)



Solis industrial and commercial string inverter product line is rich, the power range covers 15kW - 200kW, 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 200kW. High-efficiency and high-power-density inverters can reduce installation and maintenance workloads and improve overall cost efficiency. Solis' C&I solutions are supplemented by a series of advanced digital services based on SolisCloud, simplifying the application difficulty of intelligent systems, and providing you with more complete, high-quality and efficient cloud intelligent operation and maintenance solutions.

Models: S5-GC(25-50)K / S5-GC(15-23)K-LV

Output: 15 kW -200 kW

S6-GC3P(25-40)K03-ND / S6-GC3P(15-20)K03-LV-ND

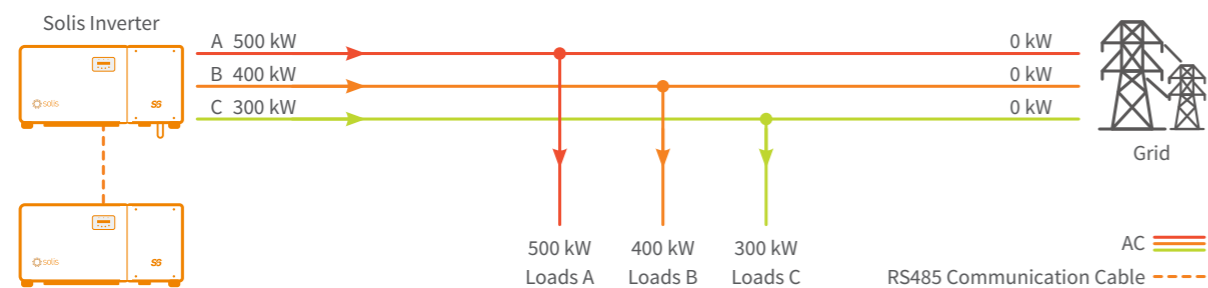
S5-GC(50-60)K / S5-GC(25-36)K-LV

S6-GC3P(40-60)K-ND / S6-GC3P(23-36)K-LV-ND

S6-GC(80-125)K / S6-GC(50-75)K-LV

S6-GC3P(150-200)K07-ND / S6-GC3P(80-100)K07-LV-ND

● Three-Phase Unbalanced Export Limitation Solution (optional)



S5-GC(25-50)K

Solis Three Phase Grid-Tied Inverters

Features:

- Max. efficiency 98.8%
- 3/4 MPPT design, suitable for multi-facing roof
- AFCI protection, proactively reduces fire risk
- Nighttime PID recovery function (optional)
- Intelligent string monitoring, smart I-V curve scan
- 24-hour load consumption monitoring
- IP66

Models:

S5-GC25K / S5-GC30K

S5-GC33K / S5-GC36K

S5-GC40K / S5-GC40K-HV

S5-GC50K-HV



360° View

DATASHEET

| Models | 25K | 30K | 33K | 36K | 40K | 40K-HV | 50K-HV |
|---|--|-----------------|-----------------|--------------------|-----------------|-------------|--------|
| Input DC | | | | | | | |
| Recommended max. PV power | 37.5 kW | 45 kW | 49.5 kW | 54 kW | 60 kW | 60 kW | 75 kW |
| Max. input voltage | 1100 V | | | | | | |
| Rated voltage | 600 V | | | | | | |
| Start-up voltage | 180 V | | | | | | |
| MPPT voltage range | 200 - 1000 V | | | | | | |
| Max. input current | 32 A / 32 A / 32 A | | | 4 × 32 A | | | |
| Max. short circuit current | 40 A / 40 A / 40 A | | | 4 × 40 A | | | |
| MPPT number / Max. input strings number | 3 / 6 | | | 4 / 8 | | | |
| Output AC | | | | | | | |
| Rated output power | 25 kW | 30 kW | 33 kW | 36 kW | 40 kW | 40 kW | 50 kW |
| Max. apparent output power | 27.5 kVA | 33 kVA | 36.3 kVA | 39.6 kVA | 44 kVA | 44 kVA | 55 kVA |
| Max. output power | 27.5 kW | 33 kW | 36.3 kW | 39.6 kW | 44 kW | 44 kW | 55 kW |
| Rated grid voltage | 3/N/PE, 220 V / 380 V, 230 V / 400 V | | | | | 3/PE, 480 V | |
| Rated grid frequency | 50 Hz / 60 Hz | | | | | | |
| Rated grid output current | 38.0 A / 36.1 A | 45.6 A / 43.3 A | 50.1 A / 47.6 A | 54.7 A / 52.0 A | 60.8 A / 57.7 A | 48.1 A | 60.1 A |
| Max. output current | 41.8 A | 50.2 A | 55.1 A | 60.2 A | 66.9 A | 53.0 A | 66.2 A |
| Power factor | > 0.99 (0.8 leading - 0.8 lagging) | | | | | | |
| THDi | < 3% | | | | | | |
| Efficiency | | | | | | | |
| Max. efficiency | 98.5% | | 98.6% | | 98.7% | | 98.8% |
| EU efficiency | 98.1% | | 98.2% | | 98.3% | | 98.4% |
| Protection | | | | | | | |
| DC reverse-polarity protection | Yes | | | | | | |
| Short circuit protection | Yes | | | | | | |
| Output over current protection | Yes | | | | | | |
| Surge protection | DC Type II / AC Type II | | | | | | |
| Grid monitoring | Yes | | | | | | |
| Anti-islanding protection | Yes | | | | | | |
| Temperature protection | Yes | | | | | | |
| Strings monitoring | Yes | | | | | | |
| I/V Curve scanning | Yes | | | | | | |
| 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 | | | | | | |

S5-GC(15-23)K-LV

Solis Three Phase Grid-Tied Inverters

Features:

- Max. efficiency 97.8%
- 3 MPPT design, suitable for multi-facing roof
- AFCI protection, proactively reduces fire risk
- Nighttime PID recovery function (optional)
- Intelligent string monitoring, smart I-V curve scan
- 24-hour load consumption monitoring
- IP66

Models:

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



360° View

DATASHEET

| Models | 15K | 20K | 23K |
|---|--|---------|---------|
| Input DC | | | |
| Recommended max. PV power | 22.5 kW | 30 kW | 34.5 kW |
| Max. input voltage | 1100 V | | |
| Rated voltage | 600 V | | |
| Start-up voltage | 180 V | | |
| MPPT voltage range | 200 - 1000 V | | |
| Max. input current | 32 A / 32 A / 32 A | | |
| Max. short circuit current | 40 A / 40 A / 40 A | | |
| MPPT number / Max. input strings number | 3 / 6 | | |
| Output AC | | | |
| Rated output power | 15 kW | 20 kW | 23 kW |
| Max. apparent output power | 16.5 kVA | 22 kVA | 25 kVA |
| Max. output power | 16.5 kW | 22 kW | 25 kW |
| Rated grid voltage | 3/PE, 220 V | | |
| Rated grid frequency | 50 Hz / 60 Hz | | |
| Rated grid output current | 39.4 A | 52.5 A | 60.4 A |
| Max. output current | 43.3 A | 57.7 A | 65 A |
| Power factor | > 0.99 (0.8 leading - 0.8 lagging) | | |
| THDi | < 3% | | |
| Efficiency | | | |
| Max. efficiency | 97.8% | | |
| EU efficiency | 97.3% | | |
| Protection | | | |
| DC reverse-polarity protection | Yes | | |
| Short circuit protection | Yes | | |
| Output over current protection | Yes | | |
| Surge protection | DC Type II / AC Type II | | |
| Grid monitoring | Yes | | |
| Anti-islanding protection | Yes | | |
| Temperature protection | Yes | | |
| Strings monitoring | Yes | | |
| I/V Curve scanning | Yes | | |
| 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(25-40)K03-ND

Solis Three Phase Grid-Tied Inverters

Features:

- String current up to 21A
- > 150% DC/AC ratio
- AFCI protection, proactively reduces fire risk
- Intelligent string monitoring, smart I-V curve scan
- 24-hour load consumption monitoring
- Dual independent RS485 ports, supporting communication with multiple devices

Models:

- S6-GC3P25K03-NV-ND
- S6-GC3P30K03-NV-ND
- S6-GC3P33K03-NV-ND
- S6-GC3P36K03-NV-ND
- S6-GC3P40K03-HV-ND



DATASHEET

| Models | 25K03-NV | 30K03-NV | 33K03-NV | 36K03-NV | 40K03-HV |
|---|--|-----------------|-----------------|-----------------|-------------|
| 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 | | | | 720 V |
| Start-up voltage | 180 V | | | | |
| MPPT voltage range | 180 - 1000 V | | | | |
| Max. input current | 42 A / 42 A / 42 A | | | | |
| Max. short circuit current | 52.5 A / 52.5 A / 52.5 A | | | | |
| MPPT number / Max. input strings number | 3 / 6 | | | | |
| Output AC | | | | | |
| Rated output power | 25 kW | 30 kW | 33 kW | 36 kW | 40 kW |
| Max. apparent output power | 25 kVA | 30 kVA | 33 kVA | 36 kVA | 40 kVA |
| Max. output power | 25 kW | 30 kW | 33 kW | 36 kW | 40 kW |
| Rated grid voltage | 3/N/PE, 220 V / 380 V, 230 V / 400 V | | | | 3/PE, 480 V |
| Rated grid frequency | 50 Hz / 60 Hz | | | | |
| Rated grid output current | 38.0 A / 36.1 A | 45.6 A / 43.3 A | 50.1 A / 47.6 A | 54.7 A / 52.0 A | 48.1 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 / 52.0 A | 48.1 A |
| Power factor | > 0.99 (0.8 leading - 0.8 lagging) | | | | |
| THDi | < 3% | | | | |
| Efficiency | | | | | |
| Max. efficiency | 98.5% | | | | 98.6% |
| EU efficiency | 98.0% | | | | 98.1% |
| Protection | | | | | |
| DC reverse-polarity protection | Yes | | | | |
| Short circuit protection | Yes | | | | |
| Output over current protection | Yes | | | | |
| Surge protection | Yes | | | | |
| Grid monitoring | Yes | | | | |
| Anti-islanding protection | Yes | | | | |
| Temperature protection | Yes | | | | |
| 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) | ≤ 55 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 indicator & Bluetooth + APP | | | | |
| Communication | Standard: RS485×2; Optional: Wi-Fi, 4G, DRM | | | | |

S6-GC3P(15-20)K03-LV-ND

Solis Three Phase Grid-Tied Inverters

Features:

- String current up to 21A
- > 150% DC/AC ratio
- AFCI protection, proactively reduces fire risk
- Intelligent string monitoring, smart I-V curve scan
- 24-hour load consumption monitoring
- Dual independent RS485 ports, supporting communication with multiple devices

Models:

S6-GC3P15K03-LV-ND

S6-GC3P20K03-LV-ND



DATASHEET

| Models | 15K | 20K |
|---|--|-----------------|
| Input DC | | |
| Recommended max. PV power | 22.5 kW | 30 kW |
| Max. input voltage | 1100 V | |
| Rated voltage | 360 V | |
| Start-up voltage | 180 V | |
| MPPT voltage range | 180 - 1000 V | |
| Max. input current | 42 A / 42 A / 42 A | |
| Max. short circuit current | 52.5 A / 52.5 A / 52.5 A | |
| MPPT number / Max. input strings number | 3 / 6 | |
| Output AC | | |
| Rated output power | 15 kW | 20 kW |
| Max. apparent output power | 15 kVA | 20 kVA |
| Max. output power | 15 kW | 20 kW |
| Rated grid voltage | 3/PE, 220 V / 230 V | |
| Rated grid frequency | 50 Hz / 60 Hz | |
| Rated grid output current | 39.4 A / 37.7 A | 52.5 A / 50.2 A |
| Max. output current | 39.4 A / 37.7 A | 52.5 A / 50.2 A |
| Power factor | > 0.99 (0.8 leading - 0.8 lagging) | |
| THDi | < 3% | |
| Efficiency | | |
| Max. efficiency | 97.8% | |
| EU efficiency | 97.3% | |
| Protection | | |
| DC reverse-polarity protection | Yes | |
| Short circuit protection | Yes | |
| Output over current protection | Yes | |
| Surge protection | Yes | |
| 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 | 25.5 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) | ≤ 55 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 indicator & Bluetooth + APP | |
| Communication | Standard: RS485×2; Optional: Wi-Fi, 4G, DRM | |

S5-GC(50-60)K**Solis Three Phase Grid-Tied Inverters****Features:**

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

Models:

S5-GC50K / S5-GC60K



360° View

DATASHEET

| Models | 50K | 60K |
|---|--|-----------------|
| Input DC | | |
| Max. input voltage | 1100 V | |
| Rated voltage | 600 V | |
| Start-up voltage | 195 V | |
| MPPT voltage range | 180 - 1000 V | |
| Max. input current | 5 × 32 A | 6 × 32 A |
| Max. short circuit current | 5 × 40 A | 6 × 40 A |
| MPPT number / Max. input strings number | 5 / 10 | 6 / 12 |
| Output AC | | |
| Rated output power | 50 kW | 60 kW |
| Max. apparent output power | 55 kVA | 66 kVA |
| Max. output power | 55 kW | 66 kW |
| Rated grid voltage | 3/N/PE, 220 V / 380 V, 230 V / 400 V | |
| Rated grid frequency | 50 Hz / 60 Hz | |
| Rated grid output current | 76.0 A / 72.2 A | 91.2 A / 86.6 A |
| Max. output current | 83.6 A | 100.3 A |
| Power factor | > 0.99 (0.8 leading - 0.8 lagging) | |
| THDi | < 3% | |
| Efficiency | | |
| Max. efficiency | 98.7% | |
| EU efficiency | 98.3% | |
| Protection | | |
| DC reverse-polarity protection | Yes | |
| Short circuit protection | Yes | |
| Output over current protection | Yes | |
| Surge protection | DC Type II / AC Type II | |
| Grid monitoring | Yes | |
| Anti-islanding protection | Yes | |
| Temperature protection | Yes | |
| Strings monitoring | Yes | |
| I/V Curve scanning | Yes | |
| Integrated AFCI 2.0 | Optional | |
| Multi peak scan | Yes | |
| 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 mm ²) | |
| 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-GC(25-36)K-LV

Solis Three Phase Grid-Tied Inverters

Features:

- 4 MPPT, max. efficiency 98.4%
- Nighttime PID recovery function (optional)
- AFCI protection, proactively reduces fire risk
- Intelligent string monitoring, smart I-V curve scan
- 24-hour load consumption monitoring
- IP66, C5 Anti-Corrosion level
- Night SVG function

Models:

- S5-GC25K-LV
- S5-GC30K-LV
- S5-GC36K-LV



360° View

DATASHEET

| Models | 25K | 30K | 36K |
|---|----------|---|--------|
| Input DC | | | |
| Max. input voltage | | 1100 V | |
| Rated voltage | | 360 V | |
| Start-up voltage | | 195 V | |
| MPPT voltage range | | 180 - 1000 V | |
| Max. input current | | 4 × 32 A | |
| Max. short circuit current | | 4 × 40 A | |
| MPPT number / Max. input strings number | | 4 / 8 | |
| Output AC | | | |
| Rated output power | 25 kW | 30 kW | 36 kW |
| Max. apparent output power | 27.5 kVA | 33 kVA | 36 kVA |
| Max. output power | 27.5 kW | 33 kW | 36 kW |
| Rated grid voltage | | 3/(N)/PE, 220 V | |
| Rated grid frequency | | 50 Hz / 60 Hz | |
| Rated grid output current | 65.6 A | 78.7 A | 94.5 A |
| Max. output current | 72.2 A | 86.6 A | 94.5 A |
| Power factor | | > 0.99 (0.8 leading - 0.8 lagging) | |
| THDi | | < 3% | |
| Efficiency | | | |
| Max. efficiency | | 98.4% | |
| EU efficiency | | 98.0% | |
| Protection | | | |
| DC reverse-polarity protection | | Yes | |
| Short circuit protection | | Yes | |
| Output over current protection | | Yes | |
| Surge protection | | DC Type II / AC Type II | |
| Grid monitoring | | Yes | |
| Anti-islanding protection | | Yes | |
| Temperature protection | | Yes | |
| Strings monitoring | | Yes | |
| I/V Curve scanning | | Yes | |
| 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 | | UL 1741, IEEE 1547, NBR 16149, NBR 16150, C10-11, REN 342 | |
| Safety / EMC standard | | IEC 62109-1/-2, IEC62116 & IEC 61000-6-1/-2/-3/-4 | |
| Features | | | |
| DC connection | | MC4 connector | |
| AC connection | | OT terminal (max. 70 mm ²) | |
| Display | | LCD | |
| 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.

S6-GC3P(40-60)K-ND

Solis Three Phase Grid-Tied Inverters

Features:

- 4/5 MPPT, max. efficiency 98.7%
- String current up to 21A
- > 150% DC/AC ratio
- Nighttime PID recovery function (optional)
- AFCI protection, proactively reduces fire risk
- Intelligent string monitoring, smart I-V curve scan
- Dual independent RS485 ports, supporting communication with multiple devices

Models:

S6-GC3P40K04-NV-ND

S6-GC3P50K04-NV-ND

S6-GC3P60K05-NV-ND

S6-GC3P50K04-HV-ND

S6-GC3P60K05-HV-ND



DATASHEET

| Models | 40K04-NV | 50K04-NV | 60K05-NV | 50K04-HV | 60K05-HV |
|---|--|-----------------|-----------------|-------------|------------|
| Input DC | | | | | |
| Max. input voltage | 1100 V | | | | |
| Rated voltage | 600 V | | 720 V | | |
| Start-up voltage | 180 V | | | | |
| MPPT voltage range | 180 - 1000 V | | | | |
| Max. input current | 4 × 42 A | | 5 × 42 A | 4 × 42 A | 5 × 42 A |
| Max. short circuit current | 4 × 52.5 A | | 5 × 52.5 A | 4 × 52.5 A | 5 × 52.5 A |
| MPPT number / Max. input strings number | 4 / 8 | | 5 / 10 | 4 / 8 | 5 / 10 |
| Output AC | | | | | |
| Rated output power | 40 kW | 50 kW | 60 kW | 50 kW | 60 kW |
| Max. apparent output power | 40 kVA | 50 kVA | 60 kVA | 50 kVA | 60 kVA |
| Max. output power | 40 kW | 50 kW | 60 kW | 50 kW | 60 kW |
| Rated grid voltage | 3/N/PE, 220 V / 380 V, 230 V / 400 V | | | 3/PE, 480 V | |
| Rated grid frequency | 50 Hz / 60 Hz | | | | |
| Rated grid output current | 60.8 A / 57.7 A | 76.0 A / 72.2 A | 91.2 A / 86.6 A | 60.1 A | 72.2 A |
| Max. output current | 60.8 A / 57.7 A | 76.0 A / 72.2 A | 91.2 A / 86.6 A | 60.1 A | 72.2 A |
| Power factor | > 0.99 (0.8 leading - 0.8 lagging) | | | | |
| THDi | < 3% | | | | |
| Efficiency | | | | | |
| Max. efficiency | 98.6% | | | 98.7% | |
| EU efficiency | 98.1% | | | | |
| Protection | | | | | |
| DC reverse-polarity protection | Yes | | | | |
| Short circuit protection | Yes | | | | |
| Output over current protection | Yes | | | | |
| Surge protection | DC Type II / AC Type II | | | | |
| Grid monitoring | Yes | | | | |
| Anti-islanding protection | Yes | | | | |
| Temperature protection | Yes | | | | |
| Strings monitoring | Yes | | | | |
| 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) | 508 × 612 × 288 mm | | | | |
| Weight | 34.9 kg | 35.8 kg | 38.6 kg | 34.4 kg | 37.4 kg |
| Topology | Transformerless | | | | |
| Self-consumption (night) | < 1 W | | | | |
| Operating ambient temperature range | -25 ~ +60°C | | | | |
| Relative humidity | 0 - 100% | | | | |
| Ingress protection | IP66 | | | | |
| Noise emission (typical) | ≤ 55 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 indicator & Bluetooth + APP | | | | |
| Communication | Standard: RS485×2; Optional: Wi-Fi, 4G, DRM | | | | |

S6-GC3P(23-36)K-LV-ND

Solis Three Phase Grid-Tied Inverters

Features:

- 3/4 MPPT, max. efficiency 97.8%
- String current up to 21A
- > 150% DC/AC ratio
- Nighttime PID recovery function (optional)
- AFCI protection, proactively reduces fire risk
- Intelligent string monitoring, smart I-V curve scan
- Dual independent RS485 ports, supporting communication with multiple devices

Models:

- S6-GC3P23K03-LV-ND
- S6-GC3P25K04-LV-ND
- S6-GC3P30K04-LV-ND
- S6-GC3P36K04-LV-ND



DATASHEET

| Models | 23K03 | 25K04 | 30K04 | 36K04 |
|---|--|-----------------|-----------------|-----------------|
| Input DC | | | | |
| Max. input voltage | 1100 V | | | |
| Rated voltage | 400 V | | | |
| Start-up voltage | 180 V | | | |
| MPPT voltage range | 180 - 1000 V | | | |
| Max. input current | 42 A / 42 A / 42 A | | | 4 × 42 A |
| Max. short circuit current | 52.5 A / 52.5 A / 52.5 A | | | 4 × 52.5 A |
| MPPT number / Max. input strings number | 3 / 6 | | | 4 / 8 |
| Output AC | | | | |
| Rated output power | 23 kW | 25 kW | 30 kW | 36 kW |
| Max. apparent output power | 23 kVA | 25 kVA | 30 kVA | 36 kVA |
| Max. output power | 23 kW | 25 kW | 30 kW | 36 kW |
| Rated grid voltage | 3/PE, 220 V / 230 V | | | |
| Rated grid frequency | 50 Hz / 60 Hz | | | |
| Rated grid output current | 60.4 A / 57.7 A | 65.6 A / 62.8 A | 78.7 A / 75.3 A | 94.5 A / 90.4 A |
| Max. output current | 60.4 A / 57.7 A | 65.6 A / 62.8 A | 78.7 A / 75.3 A | 94.5 A / 90.4 A |
| Power factor | > 0.99 (0.8 leading - 0.8 lagging) | | | |
| THDi | < 3% | | | |
| Efficiency | | | | |
| Max. efficiency | 97.8% | | | |
| EU efficiency | 97.3% | | | |
| Protection | | | | |
| DC reverse-polarity protection | Yes | | | |
| Short circuit protection | Yes | | | |
| Output over current protection | Yes | | | |
| Surge protection | DC Type II / AC Type II | | | |
| Grid monitoring | Yes | | | |
| Anti-islanding protection | Yes | | | |
| Temperature protection | Yes | | | |
| Strings monitoring | Yes | | | |
| I/V Curve scanning | Yes | | | |
| Multi peak scan | Yes | | | |
| Integrated AFCI 2.0 | Optional | | | |
| Integrated PID recovery | Optional | | | |
| Integrated DC switch | Yes | | | |
| General Data | | | | |
| Dimensions (W × H × D) | 508 × 612 × 288 mm | | | |
| Weight | 32.6 kg | 35.9 kg | 36.2 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) | ≤ 55 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 indicator & Bluetooth + APP | | | |
| Communication | Standard: RS485×2; Optional: Wi-Fi, 4G, DRM | | | |

S6-GC(80-125)K

Solis Three Phase Grid-Tied Inverters

Safety, Intelligent Prevention

- Integrated meteorological equipment, intelligent system inefficiency warning
- AI-based millisecond arc protection (AFCI)
- Real time PV grounding detection and protection
- Arc fault and RSD (Rapid Shutdown) co-operation for improved fire safety (optional)

Innovation, Never Stops

- Master-slave export power control solution, flexible and fast control, support 10 units in parallel
- Dual independent RS485 ports, perfect adaptation to third-party integration
- Supports single and multiple genset applications without the need for an external genset controller
- The industry's first master-slave export power control+ three-phase unbalanced output control, allocate each phase power on demand, and flexibly compatible with various power grids (optional)

Models:

S6-GC80K / S6-GC100K

S6-GC110K / S6-GC125K

S6-GC125K-HV



DATASHEET

| Models | 80K | 100K | 110K | 125K | 125K-HV |
|---|---|-------------------|-------------------|-------------------|-------------|
| Input DC | | | | | |
| Max. input voltage | 1100 V | | | | |
| Rated voltage | 600 V | | | | 720 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. current per DC input | 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 | 125kW |
| Max. apparent output power | 88 kVA | 110 kVA | 121 kVA | 125 kVA | 137.5 kVA |
| Max. output power | 88 kW | 110 kW | 121 kW | 125 kW | 137.5 kW |
| Rated grid voltage | 3/N/PE, 220 V / 380 V, 230 V / 400 V | | | | 3/PE, 480 V |
| Rated grid frequency | 50 Hz / 60 Hz | | | | |
| Rated grid output current | 121.6 A / 115.5 A | 152.0 A / 144.3 A | 167.1 A / 158.8 A | 189.9 A / 180.4 A | 150.4 A |
| Max. output current | 133.7 A | 167.1 A | 183.8 A | 189.9 A | 165.4 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 | | | | |
| Night SVG function | Yes | | | | |
| Integrated AFCI 2.0 | Optional | | | | |
| Integrated PID recovery | Optional | | | | |
| Integrated DC switch | Yes | | | | |
| Integrated AC switch | Optional | | | | |
| Integrated EPM function (< 10 device) | 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 mm ²) | | | | |
| Display | LCD | | | | |
| Communication | RS485, Optional: Wi-Fi, GPRS, PLC | | | | |

S6-GC(50-75)K-LV

Solis Three Phase Grid-Tied Inverters

Safety, Intelligent Prevention

- Integrated meteorological equipment, intelligent system inefficiency warning
- AI-based millisecond arc protection (AFCI)
- Real time PV grounding detection and protection
- Arc fault and RSD (Rapid Shutdown) co-operation for improved fire safety (optional)

Innovation, Never Stops

- Master-slave export power control solution, flexible and fast control, support 10 units in parallel
- Dual independent RS485 ports, perfect adaptation to third-party integration
- Supports single and multiple genset applications without the need for an external genset controller
- The industry's first master-slave export power control+ three-phase unbalanced output control, allocate each phase power on demand, and flexibly compatible with various power grids (optional)

Models:

S6-GC50K-LV

S6-GC60K-LV

S6-GC75K-LV



DATASHEET

| Models | 50K | 60K | 75K |
|---|---|-------------------|-------------------|
| Input DC | | | |
| Max. input voltage | 1100 V | | |
| Rated voltage | 450 V | | |
| Start-up voltage | 180 V | | |
| MPPT voltage range | 160 - 1000 V (Recommend 800V access) | | |
| Max. input current | 3 × (42 A / 36 A) | 4 × (42 A / 36 A) | |
| Max. current per DC input | 3 × (42 A / 36 A) | 4 × (42 A / 36 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 | 50 kW | 60 kW | 75 kW |
| Max. apparent output power | 55 kVA | 66 kVA | 75 kVA |
| Max. output power | 55 kW | 66 kW | 75 kW |
| Rated grid voltage | 3/(N)/PE, 220 V / 230 V | | |
| Rated grid frequency | 50 Hz / 60 Hz | | |
| Rated grid output current | 131.2 A / 125.5 A | 157.5 A / 150.6 A | 196.8 A / 188.3 A |
| Max. output current | 144.3 A | 173.2 A | 196.8 A |
| Power factor | > 0.99 (0.8 leading - 0.8 lagging) | | |
| THDi | < 3% | | |
| Efficiency | | | |
| Max. efficiency | 98.5% | | |
| EU efficiency | 98.0% | | |
| Protection | | | |
| DC reverse-polarity protection | Yes | | |
| Short circuit protection | Yes | | |
| Output over current protection | Yes | | |
| Surge protection | DC Type II / AC Type II | | |
| Grid monitoring | Yes | | |
| Anti-islanding protection | Yes | | |
| Temperature protection | Yes | | |
| Strings monitoring | Yes | | |
| I/V Curve scanning | Yes | | |
| Night SVG function | 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 | 90 kg | 93 kg | |
| Topology | Transformerless | | |
| Self-consumption (night) | < 2 W | | |
| Operating ambient temperature range | -30 ~ +60°C | | |
| Relative humidity | 0 - 100% | | |
| Ingress protection | IP66 | | |
| Cooling concept | Intelligent fan-cooling | | |
| Max. operation altitude | 4000 m | | |
| Grid connection standard | IEC 61727, IEC 62116, C10/11, VDE 4105 | | |
| Safety / EMC standard | IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4 | | |
| Features | | | |
| DC connection | MC4 connector | | |
| AC connection | OT terminal (max. 240 mm ²) | | |
| Display | LCD | | |
| Communication | RS485, Optional: Wi-Fi, GPRS, PLC | | |

S6-GC3P(150-200)K07-ND

Solis Three Phase Grid-Tied Inverters

Safety, Intelligent Prevention

- Integrated meteorological equipment, intelligent system inefficiency warning
- AI-based millisecond arc protection (AFCI)
- Real time PV grounding detection and protection
- Arc fault and RSD (Rapid Shutdown) co-operation for improved fire safety (optional)
- Intelligent AC and DC terminal temperature sensing detection

Innovation, Never Stops

- Master-slave export power control solution, flexible and fast control, support 10 units in parallel
- Dual independent RS485 ports, perfect adaptation to third-party integration
- Supports single and multiple genset applications without the need for an external genset controller
- The industry's first master-slave export power control+ three-phase unbalanced output control, allocate each phase power on demand, and flexibly compatible with various power grids (optional)

Models:

S6-GC3P150K07-NV-ND

S6-GC3P200K07-HV-ND



DATASHEET

| Models | 150K07-NV | 200K07-HV |
|---|--------------------------------------|--|
| Input DC | | |
| Max. input voltage | | 1100 V |
| Rated voltage | 600 V | 720 V |
| Start-up voltage | | 180 V |
| MPPT voltage range | | 160 - 1000 V |
| Max. input current | | 7 × 54 A |
| Max. current per DC input | | 54 A |
| Max. short circuit current | | 7 × 75 A |
| MPPT number / Max. input strings number | | 7 / 21 |
| Output AC | | |
| Rated output power | 150 kW | 200 kW@35°C |
| Max. apparent output power | 165 kVA | 200 kVA |
| Max. output power | 165 kW | 200 kW |
| Rated grid voltage | 3/N/PE, 220 V / 380 V, 230 V / 400 V | 3/PE, 480 V |
| Rated grid frequency | | 50 Hz / 60 Hz |
| Rated grid output current | 216.5 A / 227.9 A | 240.6 A |
| Max. output current | 250.6 A | 240.6 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 |
| Night SVG function | | Yes |
| Integrated AFCI 2.0 | | Optional |
| Integrated PID recovery | | Optional |
| Integrated DC switch | | Yes |
| 3-phase unbalanced output | | Optional |
| 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, IEC60947-2, IEC/EN 61000-6-2/-4 |
| Features | | |
| DC connection | | MC4 connector |
| AC connection | | OT terminal (max. 400 mm ²) |
| Display | | LED indicator & Bluetooth + APP |
| Communication | | RS485, Optional: Wi-Fi, GPRS, PLC |

S6-GC3P(80-100)K07-LV-ND

Solis Three Phase Grid-Tied Inverters

Safety, Intelligent Prevention

- Integrated meteorological equipment, intelligent system inefficiency warning
- AI-based millisecond arc protection (AFCI)
- Real time PV grounding detection and protection
- Arc fault and RSD (Rapid Shutdown) co-operation for improved fire safety (optional)
- Intelligent AC and DC terminal temperature sensing detection

Innovation, Never Stops

- Master-slave export power control solution, flexible and fast control, support 10 units in parallel
- Dual independent RS485 ports, perfect adaptation to third-party integration
- Supports single and multiple genset applications without the need for an external genset controller
- The industry's first master-slave export power control+ three-phase unbalanced output control, allocate each phase power on demand, and flexibly compatible with various power grids (optional)

Models:

S6-GC3P80K07-LV-ND

S6-GC3P100K07-LV-ND



DATASHEET

| Models | 80K | 100K |
|---|--|---------------------|
| Input DC | | |
| Max. input voltage | 800 V | |
| Rated voltage | 450 V | |
| Start-up voltage | 180 V | |
| MPPT voltage range | 160 - 800 V | |
| Max. input current | 7 × 54 A | |
| Max. current per DC input | 54 A | |
| Max. short circuit current | 7 × 75 A | |
| MPPT number / Max. input strings number | 7 / 21 | |
| Output AC | | |
| Rated output power | 80 kW | 100 kW ^① |
| Max. apparent output power | 88 kVA | 100 kVA |
| Max. output power | 88 kW | 100 kW |
| Rated grid voltage | 3/N/PE, 220 V / 230 V | |
| Rated grid frequency | 50 Hz / 60 Hz | |
| Rated grid output current | 209.9 A | 251 A |
| Max. output current | 230.9 A | 251 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 | |
| Night SVG function | Yes | |
| Integrated AFCI 2.0 | Optional | |
| Integrated PID recovery | Optional | |
| Integrated DC switch | Yes | |
| 3-phase unbalanced output | Optional | |
| 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 | IEC 61727L, IEC 62116, C10/11, VDE 4105 | |
| Safety / EMC standard | IEC/EN 62109-1/-2, IEC60947-2, IEC/EN 61000-6-2/-4 | |
| Features | | |
| DC connection | MC4 connector | |
| AC connection | OT terminal (max. 400 mm ²) | |
| Display | LED indicator & Bluetooth + APP | |
| Communication | RS485, Optional: Wi-Fi, GPRS, PLC | |

① 95.6kW for 220V.

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.

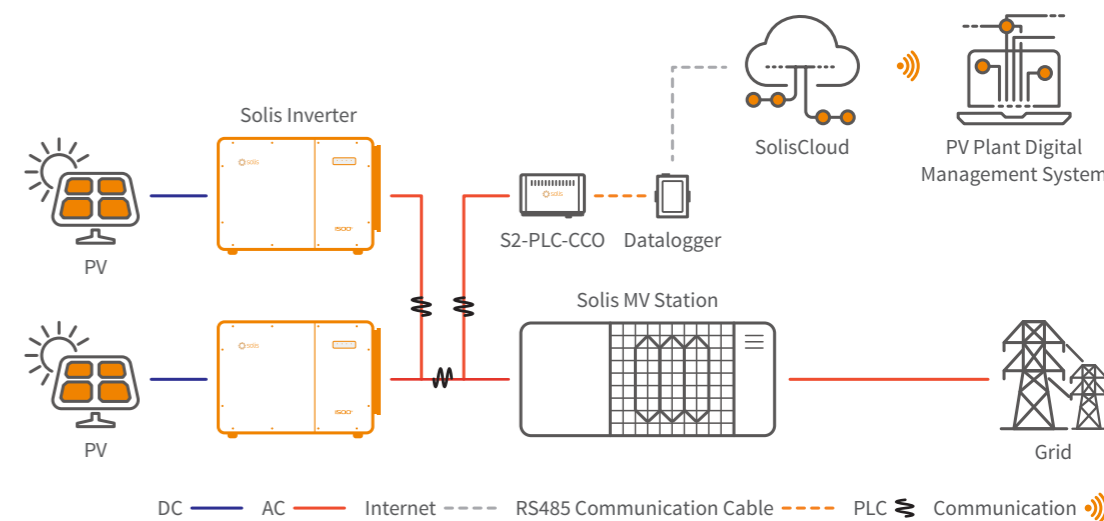
Models:

S6-GU3P350K06-EV-ND

Output:

350 kW

Utility Scale Solar PV Solution



S6-GU3P350K06-EV-ND

Solis Three Phase Grid-Tied Inverters

Efficient

- 30 inputs, > 150% DC/AC ratio
- Each MPPT maximum current 80A, compatible with 182 and 210 series bifacial modules
- Patented heat transfer technology, continuous output increase of 5% at high temperature

Smart

- Intelligent string monitoring, smart I-V curve scan
- Each MPPT online insulation fault detection facilitates rapid fault identification
- Low temperature antifreeze, reverse dust removal, indoor dehumidification

Safe

- IP66, C5-M Anti-Corrosion level
- Intelligent string break, remote release for DC switch, active safety
- Support intelligent AC/DC terminal temperature detection

Economic

- Inverter with 20ms fast reactive power response, can replace SVG
- Support 400mm² aluminum wire connection, saving AC cable cost
- Support PLC communication, saving communication cables and construction cost

Models:

S6-GU3P350K06-EV-ND



DATASHEET

| Models | 350K |
|---|--|
| 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 | 6 × 80 A |
| Max. short circuit current | 6 × 125 A |
| MPPT number / Max. input strings number | 6 / 30 |
| 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) | 1098 × 813 × 378.5 mm |
| Weight | 117 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 | Matching connector |
| AC connection | OT terminal (max. 400 mm ²) |
| 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' HC 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

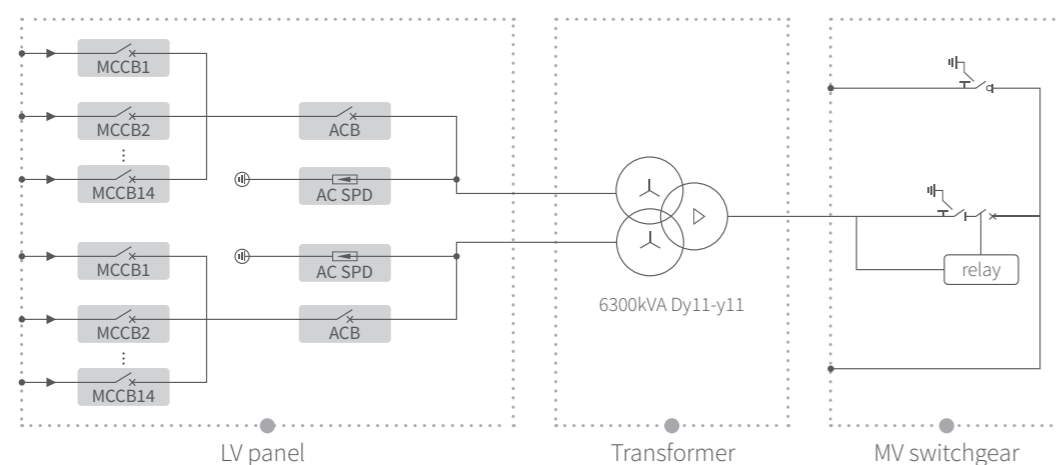
- LV panel, transformer and RMU to be placed independently
- Adopt international first-line brand equipment with reliable quality

Easy O&M

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



● Circuit diagram



DATASHEET

| 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 / 10 - 35 kV |
| Max. input current | 2577 A × 2 |
| Tapping on HV | ±2 × 2.5% |
| Vector group | Dy11y11 |
| Frequency | 50 Hz / 60 Hz |
| Cooling type | ONAN |
| Impedance | 8% (± 10%) |
| 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 (Optional: SF6-Free) |
| Rated voltage | 12 - 40.5 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 | 21 T |
| Operating ambient temperature range | -25 ~ +60°C |
| Max. operation altitude | 2000 m |
| Auxiliary power supply | 5 kVA / 230 V (Optional: max. 50 kVA) |
| UPS | 1 kVA 30 min (Optional: max. 2 kVA 2h) |
| Degree of protection | IP54 |
| Anti-corrosion Class | C4-H (Optional: C5-M) |
| 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' HC standard container delivery, easy to transport

Convenient installation

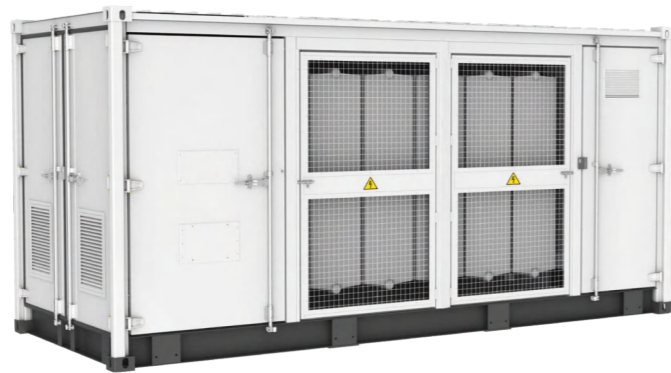
- A complete solution, from inverter to main step-up transformer
- When the container is lifted to the foundation, only LV and MV cables need to be connected

Reliable products

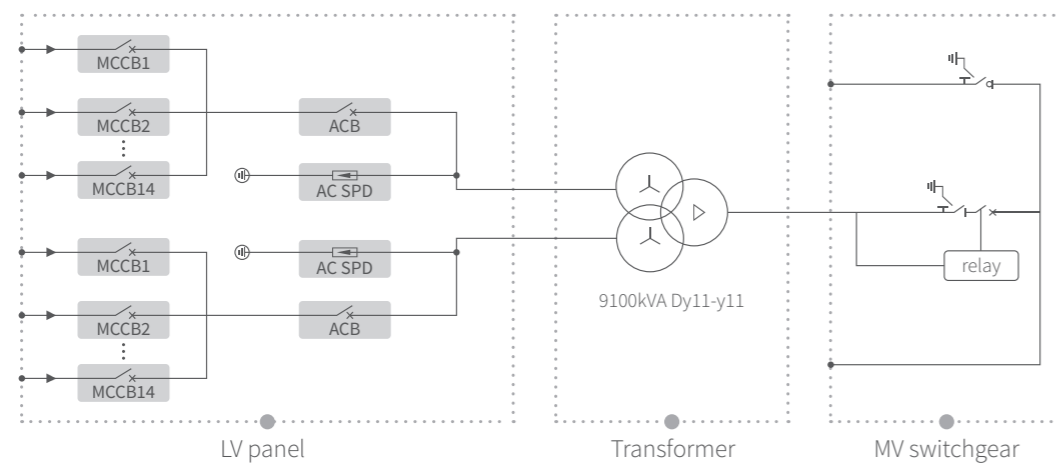
- LV panel, transformer and RMU to be placed independently
- Adopt international first-line brand equipment with reliable quality

Easy O&M

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



● Circuit diagram



DATASHEET

| 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 @ 30°C |
| 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% (±10%) |
| 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 (Optional: SF6-Free) |
| Rated voltage | 12 - 40.5 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 | 23.5 T |
| Operating ambient temperature range | -25 ~ +60°C |
| Max. operation altitude | 2000 m |
| Auxiliary power supply | 5 kVA / 230 V (Optional: max. 50 kVA) |
| UPS | 1 kVA 30 min (Optional: max. 2 kVA 2h) |
| Degree of protection | IP54 |
| Anti-corrosion Class | C4-H (Optional: C5-M) |
| 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.

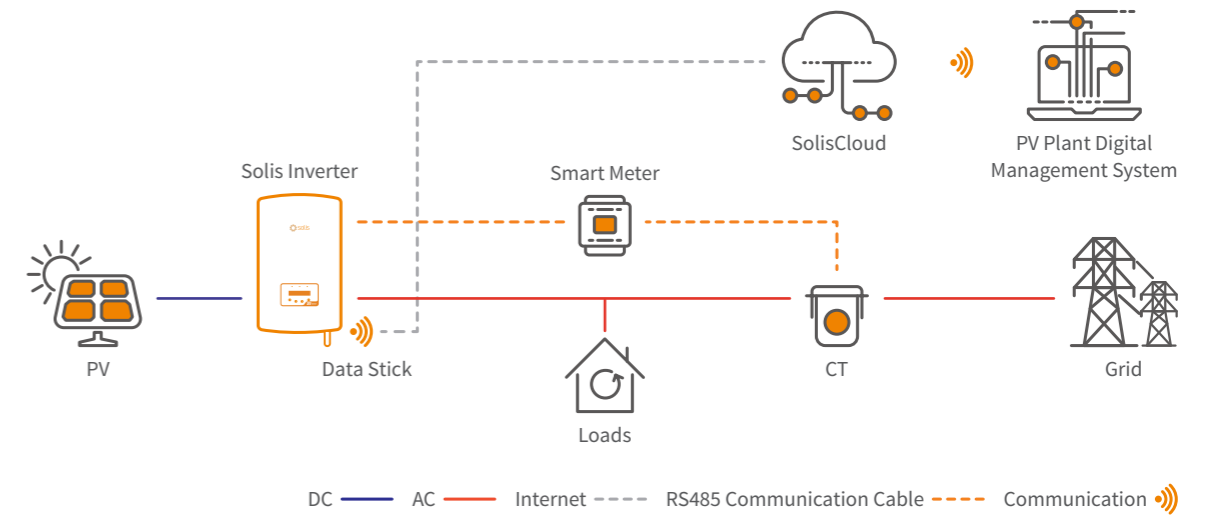
Export Power Management Solutions



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.

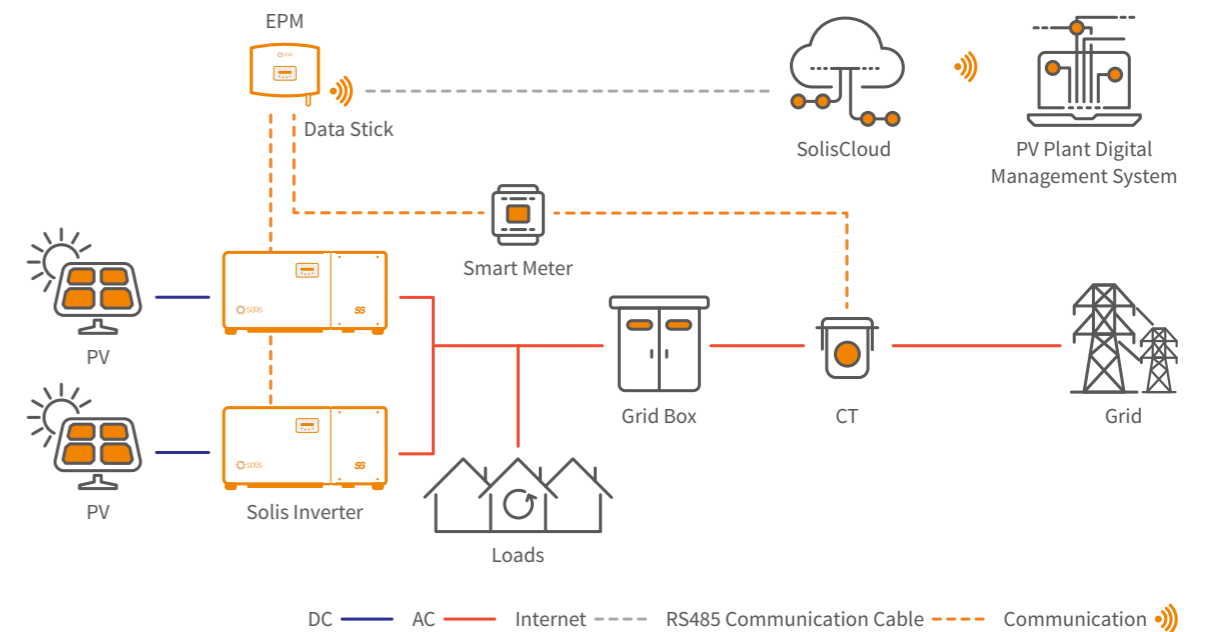
Export Power Management Solutions - Single-inverter System

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

| Models | Solis-EPM1-5G | Solis-EPM3-5G-PRO | | | | | |
|-------------------------------------|--|---|-----|----|----------------|----------|----------|
| Input AC | | | | | | | |
| Rated voltage | 1/N/PE, 230 V | 1/N/PE, 230 V; 3/(N)/PE, 400 V; 3/PE, 480 V | | | | | |
| Input voltage range | 100 ~ 300 V (L-N) | 100 ~ 300 V (L-N); 175 ~ 519 V (L-L) | | | | | |
| Input frequency range | 45 ~ 65 Hz | | | | | | |
| Communication | | | | | | | |
| Inverter communication | Modbus | | | | | | |
| Communication with inverter | RS485 (Wired) | | | | | | |
| Max. communication inverter numbers | 20 | 20 (Recommended) | | | | | |
| Monitoring | WiFi / 4G / LAN Stick (Optional) | | | | | | |
| General Data | | | | | | | |
| Operating ambient temperature range | -25 ~ +60°C | | | | | | |
| Relative humidity | 5% ~ 95% | | | | | | |
| Max. operation altitude | 2000 m | | | | | | |
| Ingress protection | IP65 | | | | | | |
| Pollution degree | PD2 (Inside), PD3 (Outside) | | | | | | |
| Overvoltage category | III | | | | | | |
| Self-consumption | < 6 W | | | | | | |
| Dimensions (W × H × D) | 364 × 276 × 114 mm | | | | | | |
| Weight | 2.7 kg (without CT, Meter) | | | | | | |
| AC connection | Quick connection terminal | | | | | | |
| Display | LCD | | | | | | |
| Smart meter | No | Split phase: AGF-AE-D ^① Three phase: ADL3000-E-B ^② | | | | | |
| 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^③ | | | | | | | |
| | Specification | Dimensions (mm) | | | Hole size (mm) | | Ratio |
| | | W | H | D | a | e | |
| | CT-30×20-100 A | 90 | 114 | 40 | 22 | 32 | 100:5 A |
| | CT-60×40-300 A | 114 | 140 | 36 | 42 | 62 | 300:5 A |
| | CT-80×40-600 A | 122 | 162 | 40 | 42 | 82 | 600:5 A |
| | CT-80×40-1000 A | 122 | 162 | 40 | 42 | 82 | 1000:5 A |
| CT-160×80-2000 A | 184 | 254 | 52 | 82 | 162 | 2000:5 A | |
| CT-160×80-3000 A | 184 | 254 | 52 | 82 | 162 | 3000:5 A | |

① For AGF-AE-D, 2 CTs(200/40mA) will be provided by default.
② For ADL3000-E-B, CTs should be ordered separately.

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

SolisCloud: Intelligent Solar Energy System Monitoring

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



S2-WL-ST



S2-WL-ST-4 Pin S2-WL-ST-USB

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

MB-S4-W4



MB-S4-W4

S2-PLC-CCO



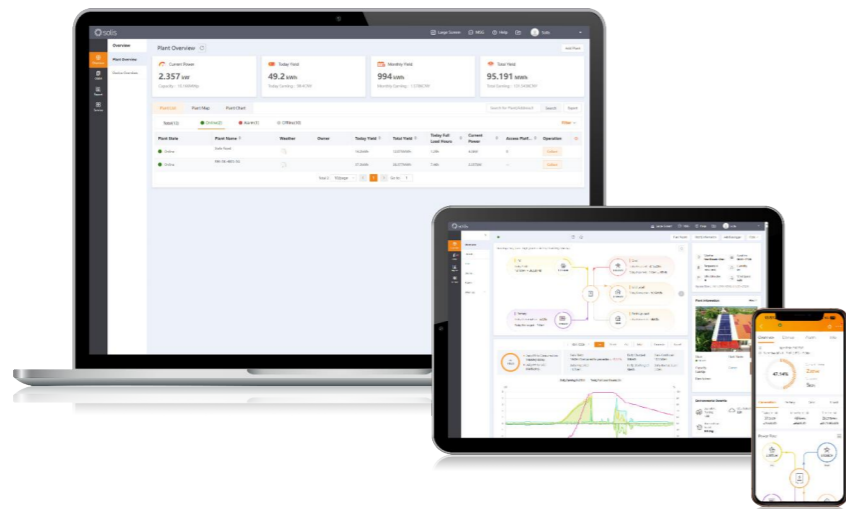
S2-PLC-CCO

SolisCloud

Remote and Intelligent Control at Your Fingertips

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. Remotely manage, troubleshoot, measure performance or even shut down your PV system for ultimate control.

Simplify your operations and maintenance with the ability to visualize all your installations with real-time, actionable data. The SolisCloud intelligent alarm system gives resolution recommendations and the ability to troubleshoot system faults. Understand the health of all of your systems with in-depth analytics, live battery and inverter performance flow data and remote IV curve scanning. Complete control coupled with actionable data helps you to ensure systems are always on and performing as expected.



Remote Control & Capability

- Remotely update firmware or troubleshoot, potentially saving a site truck roll.
- Remote shut off increases safety if the system is having a critical error.
- Control battery reserve for inclement weather or planned power outage, set time of use (TOU) charge and discharge to offset rates, as well as export power control.

Multiple Site Management

- Manage multiple types of systems across commercial, residential and utility scale plants.
- Enable teams with unique access permissions.

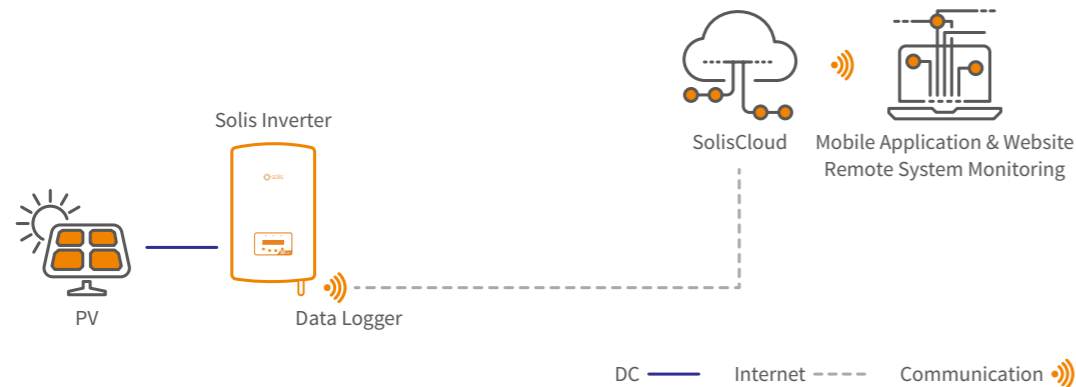
Streamlined Operations & Maintenance

- System managers are notified of potential issues and resolution measures to limit downtime.
- Intelligent and granular string-level monitoring to maximize performance.

Software-enabled Shade Mitigation

- Our inverter's software intelligently combats shade situations without the use of hardware. This enables the identification of the highest performing module in a string to ensure maximum output.

Intelligent Monitoring Solution - SolisCloud



Download the App

Search for "Solis"

FOLLOW US

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

Accessories available:

- | | |
|------------|------------|
| S2-WL-ST | S2-RF-LINK |
| S5-WiFi-ST | S3-Logger |
| S1-W4G-ST | MB-S4-W4 |
| S3-GPRS-ST | S2-PLC-CCO |

S2-WL-ST

Solis Data Loggers

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

Features:

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

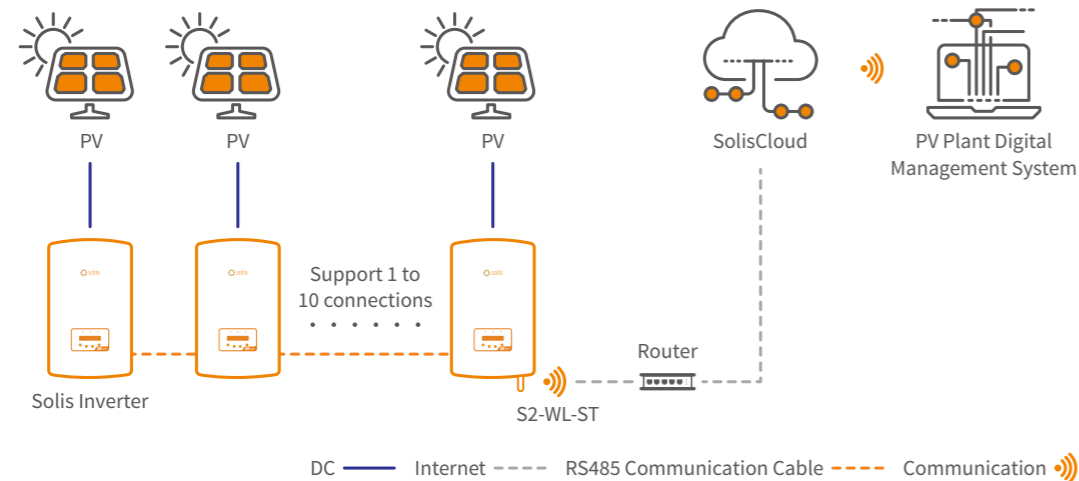


S2-WL-ST (4 Pin)



S2-WL-ST (USB)

Intelligent Monitoring Solution - S2-WL-ST



DATASHEET

| 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, 2.412-2.484GHz ^② | |
| Max. output power | 802.11b: 20dBm / 802.11g: 18dBm / 802.11n: 15dBm | |
| Near end communication | BLE4.2 | |
| Configuration method | APP / WEB | |
| Electrical | | |
| Operating voltage | DC 5 V (+ / -5%) | |
| Typical power consumption | 2 W | |
| Environment | | |
| Operating temperature | -30 ~ +65°C | |
| Operating humidity | 5% - 95%, Relative humidity, non-condensing | |
| Storage temperature | -40 ~ +70°C | |
| Storage humidity | < 40% | |
| Max. operating altitude | 4000 m | |
| Ingress protection | 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.

S5-WiFi-ST

Solis Data Loggers

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

Features:

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

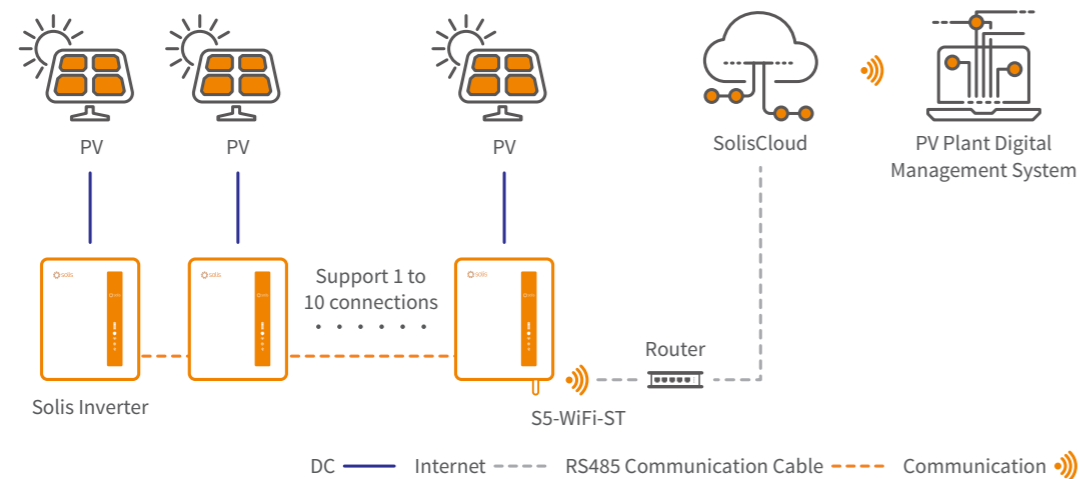


S5-WiFi-ST-4Pin



S5-WiFi-ST-USB

Intelligent Monitoring Solution - S5-WiFi-ST



DATASHEET

| 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 | 802.11a/b/g/n, 2.412-2.484GHz / 5.150-5.350GHz / 5.725-5.850GHz | |
| Max. output power | 802.11a: 15.5dBm; 802.11b: 18dBm; 802.11g: 16.5dBm; 802.11n: 16dBm/14.5dBm | |
| Near end communication | BLE5.0 | |
| Configuration method | APP / WEB | |
| Electrical | | |
| Operating voltage | DC 5 V (+ / -5%) | |
| Typical power consumption | 2 W | |
| Environment | | |
| Operating temperature | -30 ~ +65°C | |
| Operating humidity | 5% - 95%, Relative humidity, non-condensing | |
| Storage temperature | -40 ~ +70°C | |
| Storage humidity | < 40% | |
| Max. operating altitude | 4000 m | |
| Ingress protection | IP65 | |
| Mechanical | | |
| Dimensions (L × W × H) | 128 × 50 × 34 mm | 113 × 50 × 34 mm |
| Installation method | Externally Insert + Twist Lock | Externally Insert + Tab Lock |
| Weight | 80 g | 65 g |
| Others | | |
| Certification | CE, FCC | |

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

S1-W4G-ST

Solis Data Loggers

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

Features:

- Support WiFi and 4G communication
- Fault alarm, real-time monitoring
- Plug and play, quick installation
- Status indicator, easy to display working status
- Support Bluetooth nearby connection and debugging
- RESET button, one key to send data, convenient debugging

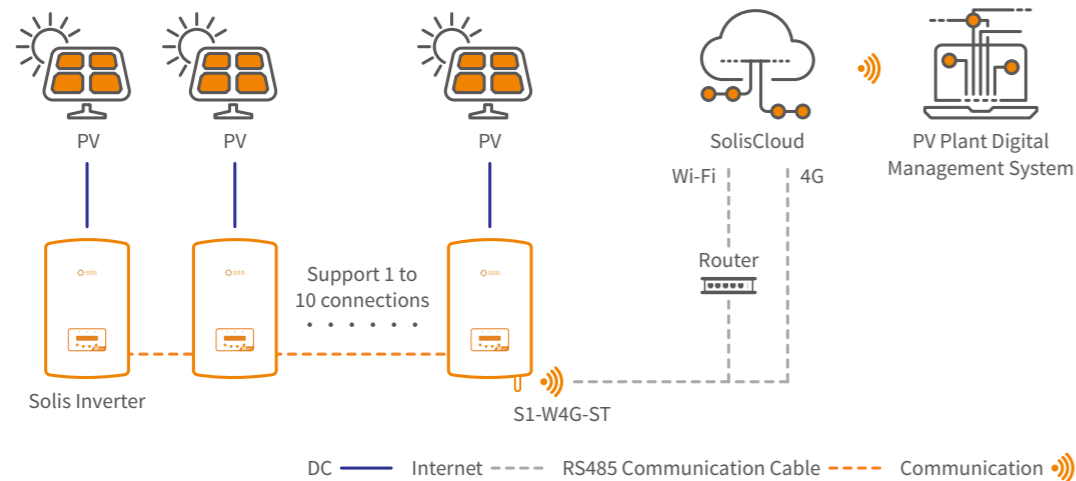


S1-W4G-ST (4 Pin)



S1-W4G-ST (USB)

Intelligent Monitoring Solution - S1-W4G-ST



DATASHEET

| 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 | Wi-Fi: 802.11b/g/n, 2.412-2.484GHz ^② ; Cellular network: 4G/3G/2G, LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B25/B26/B28, LTE-TDD: B38/B39/B40/B41, UMTS: B1/B2/B4/B5/B6/B8/B19, GSM: B2/B3/B5/B8 | |
| Max. output power | Wi-Fi: 802.11b: 20dBm / 802.11g: 18dBm / 802.11n: 15dBm; Cellular network: LTE&WCDMA bands: 23dBm, GSM850/EGSM900: 33dBm, DCS1800/PCS1900: 30dBm, DCS1800/PCS1900(8-PSK): 26dBm, GSM850/EGSM900(8-PSK): 27dBm | |
| Near end communication | BLE4.2 | |
| Configuration method | APP / WEB | |
| Electrical | | |
| Operating voltage | DC 5 V (+ / -5%) | |
| Typical power consumption | 3 W | |
| Environment | | |
| Operating temperature | -30 ~ +65°C | |
| Operating humidity | 5% - 95%, Relative humidity, non-condensing | |
| Storage temperature | -40 ~ +70°C | |
| Storage humidity | < 40% | |
| Max. operating altitude | 4000 m | |
| Ingress protection | 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.

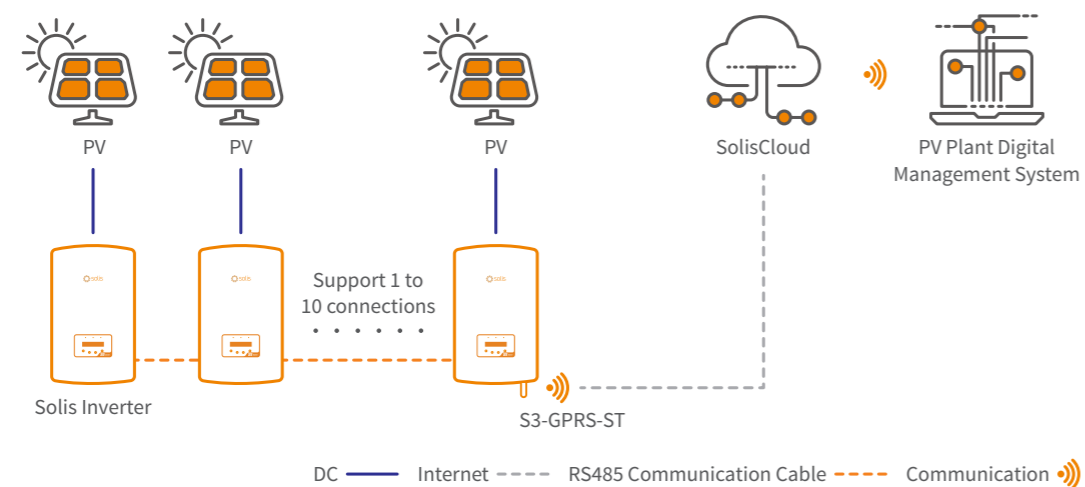
Features:

- 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

| 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 | 2G: 850 / 900 / 1800 / 1900 MHz |
| Max. output power | SM850/EGSM900: 33dBm; DCS1800/PCS1900: 30dBm |
| Configuration method | APP / WEB |
| Electrical | |
| Operating voltage | DC 5 V (+ / -5%) |
| Typical power consumption | 3 W |
| Environment | |
| Operating temperature | -30 ~ +65°C |
| Operating humidity | 5% - 95%, Relative humidity, non-condensing |
| Storage temperature | -40 ~ +70°C |
| Storage humidity | < 40% |
| Max. operating altitude | 4000 m |
| Ingress protection | 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:

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



S2-RF-ST-4Pin



S2-RF-Gateway

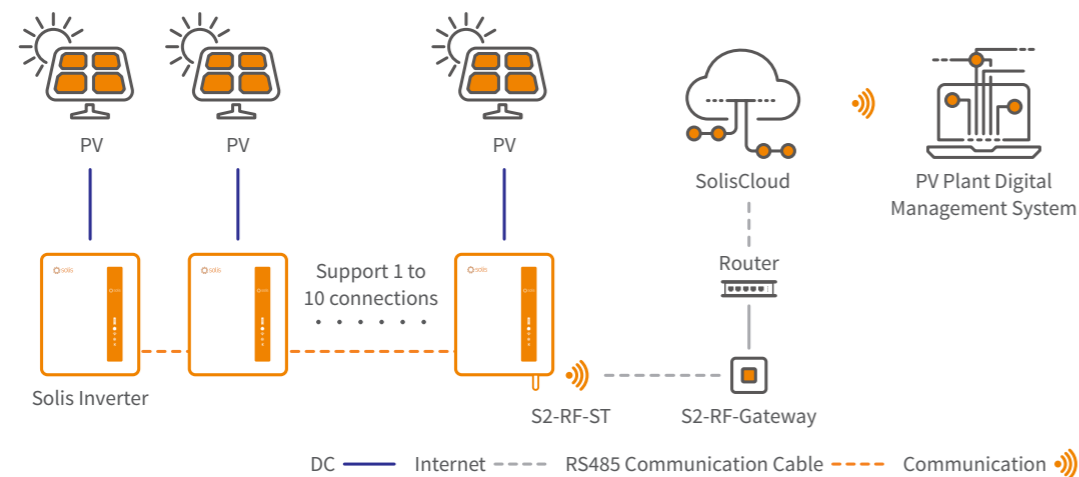


S2-RF-ST-USB



S2-RF-Gateway

Intelligent Monitoring Solution - S2-RF-LINK



DATASHEET

| 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.

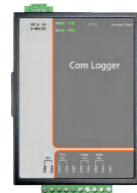
S3-Logger

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.

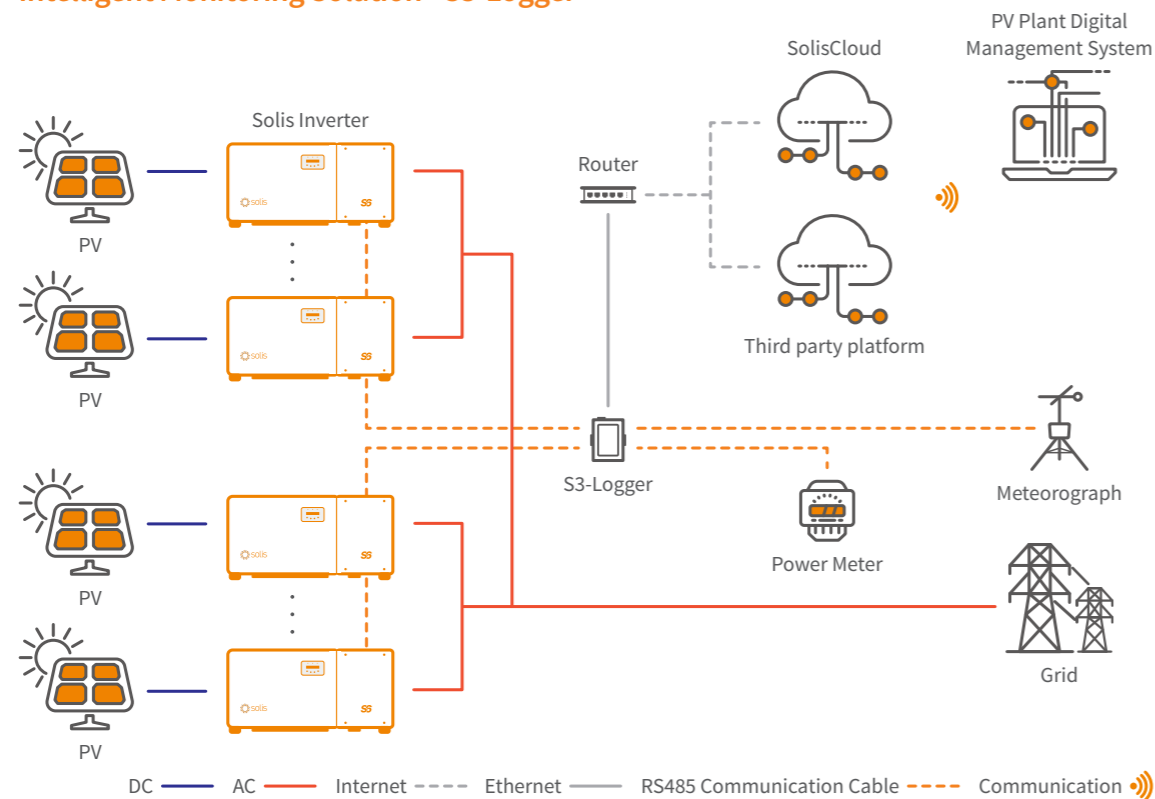
Features:

- 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



S3-Logger

Intelligent Monitoring Solution - S3-Logger



DATASHEET

| Models | S3-Logger | S3-Logger-EPM |
|-------------------------------------|---|---------------|
| Communication | | |
| Supported device type | Solis inverter | |
| Max. manageable device ^① | 60, Each RS485 PORT≤15 | |
| Status indicator | LED × 2, Power, Run | |
| RS485 | COM × 4, 1200 ~ 115200 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 | |
| Power consumption | 5 W | |
| Environment | | |
| Operating temperature | -40 ~ +80°C | |
| Storage temperature | -40 ~ +80°C | |
| Relative humidity | ≤ 85%, Non-condensing | |
| Max. operating 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 PC-4GF | RS485 connects to the P3 port on 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, communication protocols and other documents; 3. The match of the new equipment, the 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 | | |
| | FIMER | VSN800 | | |
| | Kopya SOLIS-VISIONSEN | VSS-5 VSS-6 | | |
| | MAP | VSS-9 VSS-10 | | |
| BARANIDESIGN | Easy MODBUS Starter Kit | | | |
| Hunan Rika Electronic | RK220-01 | RS485 connects to the P4 port on S3-Logger | | |
| Acrel | DTSD1352 | | ADL3000-E-B | |
| | UMG-96RM | | UMG-512 | |
| Janitza | UMG604 | | | |
| Mikro | RX380 | | | |
| MEATROL | EM231 | | | |
| Schneider | PM5100 | | iEM3000 | |
| | iEM3255 | EM6400 | | |
| Iskra | MC774 | | | |

MB-S4-W4

Solis Data Loggers

The MB-S4-W4 is designed for commercial and industrial (C&I) PV systems, enabling efficient data acquisition, protocol conversion, and power control. It helps maximise system performance through intelligent operation and maintenance.

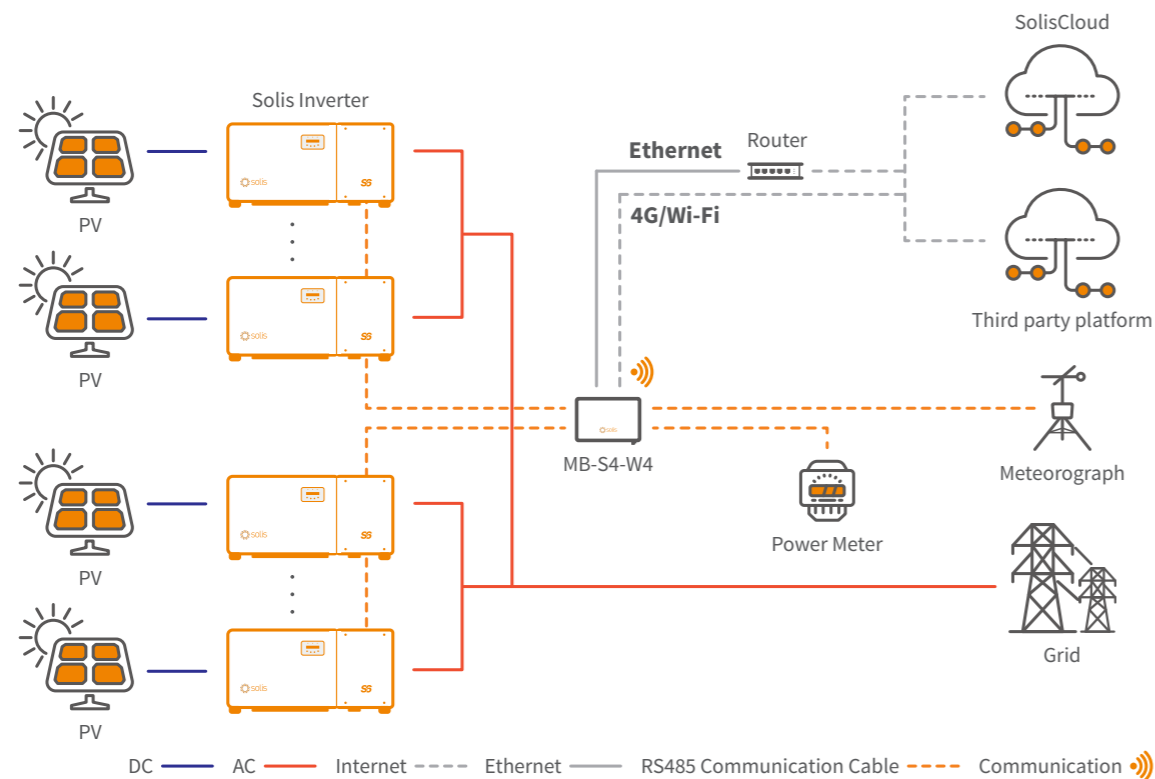
Features:

- Monitors up to 80 PV inverters
- Supports remote upgrade and maintenance
- Compatible with various export power limitation scenarios
- Enables multi-master plant data transfer
- Built-in web server for monitoring and configuration, no app required
- One-click address allocation for fast commissioning
- Automatic dual power source switching



MB-S4-W4

Intelligent Monitoring Solution - MB-S4-W4



DATASHEET

| Models | MB-S4-W4 |
|-------------------------------|---|
| Communication | |
| Max. manageable device | 80, Each RS485 port ≤ 20 |
| Status indicator | LED × 4 |
| WEB | Embedded Web |
| RS485 | COM × 4, communication distance ≤ 1000 m |
| Ethernet communication | LAN × 2, 10 / 100 Mbps adaptive, communication distance ≤ 100 m |
| Wireless communication | Wi-Fi: 802.11 b/g/n (2.4G); 802.11a/n (5G); Cellular network: 4G / 3G / 2G |
| Digital / Analog | DI × 4, DO × 2, AI × 4 |
| Communication Protocol | |
| RS485 | Modbus-RTU |
| Ethernet | Modbus-TCP, IEC60870-5-104 |
| Electrical | |
| Power Adapter | AC input: 100 ~ 240 V, 50 Hz / 60 Hz; DC output: 12 V, 4 A |
| DC input | input1: 12 V, 1 A; input2: 24 V, 0.8 A |
| Power consumption | ≤ 12 W |
| Environment | |
| Operating temperature range | -40 ~ +60°C |
| Storage temperature range | -40 ~ +70°C |
| Relative humidity | 5% - 95% (Non-condensing) |
| Max. operating altitude | 4000 m |
| Mechanical | |
| Dimensions (W × H × D) | 225 × 156 × 44 mm |
| Weight | 1.25 kg |
| Ingress protection | IP20 |
| Installation method | Wall mount or desktop installation |
| Others | |
| Certification | CE, RoHS |

Models of Meter and Meteorograph supported by MB-S4-W4

| Type | Vendor | Model | Connection method | Export Limitation |
|--------------|------------------|-------------|-------------------|-------------------|
| Meter | Acrel | ADL3000-E-B | RS485 | Supported |
| | Acrel | DTS1352 | | Supported |
| | CHINT | DTSU666 | | - |
| | EASTRON | SDM630MCT | | - |
| | Janitza | UMG96RM | | - |
| Meteorograph | Ginlong | PC-4GF | RS485 | - |
| | Jinzhou Sunshine | PC-4GF | | - |

Note:

1. The newly matched device models will be continuously updated to the above table.
2. If you need to match a new weather meter or electricity meter device, please contact our customer service center and provide materials such as the device's user manual, specification sheet, and communication protocol.

S2-PLC-CCO

Solis PLC Central Controller

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

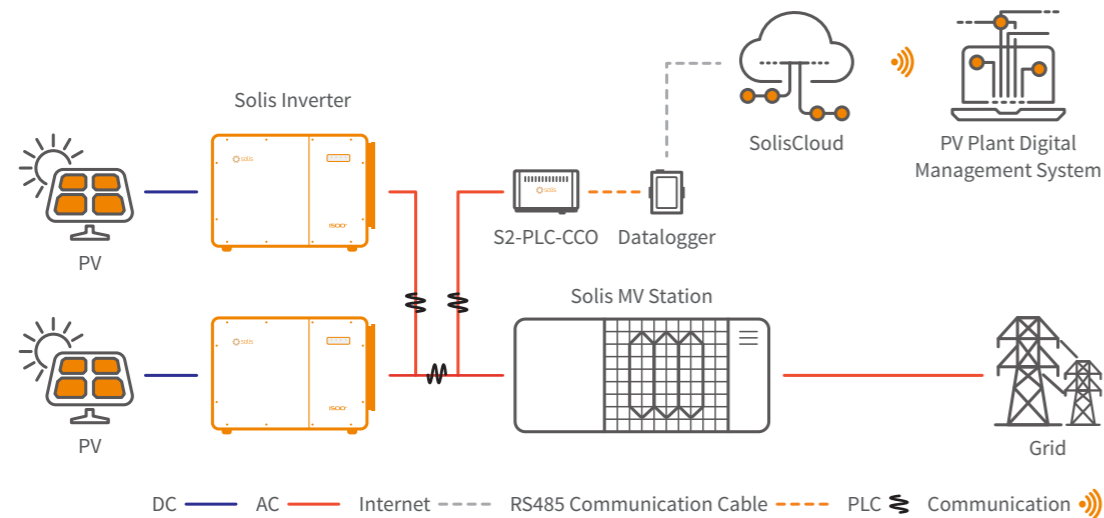
Features:

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



S2-PLC-CCO

Intelligent Monitoring Solution - S2-PLC-CCO



DATASHEET

| Models | S2-PLC-CCO |
|-------------------------------------|---|
| Communication | |
| Supported device type | Solis inverter |
| Number of connected inverters | ≤ 80 |
| Status indicator | 4 LED Indicator Lights |
| Frequency band | 2 - 12 MHz |
| Communication interface | 4pin / RJ45 / RS485 |
| Debugging interface | Bluetooth |
| Baud rate | 9600 / 19200 / 57600 / 115200 |
| Electrical | |
| Input voltage (Power adapter) | 12 VDC |
| Max. input current (Power adapter) | 2 A |
| AC port input line voltage | 50 - 920 V, 50 Hz / 60 Hz |
| Operating power consumption | < 5 W |
| Environment | |
| Operating ambient temperature range | -40 ~ +70°C |
| Operating humidity | 5% - 95%, relative humidity, Non-condensing |
| Storage temperature | -45 ~ +90°C |
| Storage humidity | 5% - 95%, relative humidity, Non-condensing |
| Max. operation altitude | 4000 m |
| Protection degree | IP 20 |
| Mechanical | |
| Dimensions (L × W × H) | 255 × 165 × 45 mm |
| Installation method | Hanging ear mounting, rail mounting |
| Weight | 750 g |

Contact Us

HQ

- ☎ +86 574 6580 2188
- ✉ sales@ginlong.com service@ginlong.com
- 📍 188 Jinkai Road, Binhai Industrial Park, Xiangshan, Ningbo, Zhejiang, 315712, China

Asia

Pakistan

- ☎ +86 574 6580 2188 (sales)
+92 042 111 119 118 (service) +92 334 1171144 (service, WhatsApp)
- ✉ sales@ginlong.com service@ginlong.com
pakfastservice@solisinverters.com

India

- ☎ +91 224 9744 251 (sales) +91 90906 09037 (service)
- ✉ indiasales@ginlong.com inservice@solisinverters.com

Indonesia

- ☎ +86 574 6580 2188 (sales) +62 813 7466 5634 (service)
- ✉ sales@ginlong.com service@ginlong.com

Philippines

- ☎ +86 574 6580 2188 (sales) +63 2 8372 7945 (service)
- ✉ sales@ginlong.com phservice@solisinverters.com

Vietnam

- ☎ +84 98 316 8126 (sales) +84 24 7109 7614 (service)
- ✉ sales@ginlong.com service@ginlong.com

Sri Lanka

- ☎ +86 574 6580 2188 (sales) +94 76 761 5759 (service)
- ✉ sales@ginlong.com service@ginlong.com

Americas

USA/ Canada

- ☎ +1 866 438 8408
- ✉ ussales@solisinverters.com usservice@solisinverters.com

Chile

- ☎ +86 574 6580 2188 (sales)
+52 811 500 2841 (service) +52 33 1751 0488 (service)
- ✉ sales@ginlong.com service@ginlong.com

Oceania

Australia

- ☎ +61 1800928995 +61 3 8555 9516
- ✉ sales@solisinverters.com.au service@solisinverters.com.au

Myanmar

- ☎ +95 94302335 (sales) +95 9693243146 (service)
+95 9405000724 (service)
- ✉ sales@ginlong.com service@ginlong.com

Korea

- ☎ +82 32 822 2188 (sales) +82 10 7924 2198 (service)
- ✉ krsales@solisinverters.com (sales & service)

Malaysia

- ☎ +86 574 6580 2188 (sales) +60 0162323512 (service)
- ✉ sales@ginlong.com service@ginlong.com

Singapore

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

Thailand

- ☎ +86 574 6580 2188 (sales) +66 099 050 5595 (service)
- ✉ sales@ginlong.com service@ginlong.com

Israel

- ✉ europesales@solisinverters.com ISRservice@solisinverters.com

Lebanon

- ✉ MEservice@solisinverters.com

Mexico

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

Brazil

- ☎ +55 19 996133803 (sales) +55 19 999618000 (service)
- ✉ sales@ginlong.com service@ginlong.com

Africa

South Africa

- ☎ +27 010 222 0181
- ✉ sales@ginlong.com saservice@solisinverters.com

Europe

Spain (EU Service Center)

- ☎ +34 914 430 810 (sales) +34 919 495 286 (service Spain)
- ✉ europesales@solisinverters.com (sales)
spservice@solisinverters.com (service Spain)
euservice@solisinverters.com (service EU)

UK

- ☎ +44 113 328 0870 (sales) +44 1514 536515 (service)
- ✉ europesales@solisinverters.com ukservice@solisinverters.com

France

- ☎ +34 914 430 810 (sales) +33 971 078 736 (service)
- ✉ europesales@solisinverters.com frservice@solisinverters.com

Germany

- ☎ +49 800 5369147 (service)
- ✉ europesales@solisinverters.com deservice@solisinverters.com

Sweden

- ☎ +46 761 472 195 (sales) +46 850 282 408 (service)
- ✉ europesales@solisinverters.com seservice@solisinverters.com

Greece

- ☎ +30 8000000227 (service)
- ✉ europesales@solisinverters.com grservice@solisinverters.com

Lithuania

- ☎ +370 800 80809 (service)
- ✉ europesales@solisinverters.com ltservice@solisinverters.com

Turkey

- ☎ +90 5411618875 (sales) +90 8006212494 (service, Toll-Free)
+90 5386276547 (service, WhatsApp)
- ✉ europesales@solisinverters.com trservice@solisinverters.com

Ukraine

- ☎ +380 800504003 (service)
- ✉ UAService@solisinverters.com europesales@solisinverters.com

Latvia

- ☎ +370 66102894 (service)
- ✉ euservice@solisinverters.com europesales@solisinverters.com

Denmark

- ☎ +45 80830121 (service)
- ✉ euservice@solisinverters.com europesales@solisinverters.com

Balkans

- ✉ bkservice@solisinverters.com europesales@solisinverters.com

Czechia

- ✉ euservice@solisinverters.com europesales@solisinverters.com

Benelux (Belgium, Netherlands, Luxembourg)

- ☎ +31 85 048 1300 +32 80013677
- ✉ benelux@solisinverters.com (sales & service)
beservice@solisinverters.com (service Belgium)
nlservice@solisinverters.com (service Netherlands)

Austria

- ☎ +43 800070427 (service)
- ✉ europesales@solisinverters.com deservice@solisinverters.com

Portugal

- ☎ +351 80 050 6138 (service)
- ✉ europesales@solisinverters.com PTservice@solisinverters.com

Italy

- ☎ +39 02 8295 7352
- ✉ europesales@solisinverters.com itservice@solisinverters.com

Poland

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

Romania

- ☎ +40 373 808 894 (service) +40731992951 (WhatsApp)
- ✉ europesales@solisinverters.com roservice@solisinverters.com

Switzerland

- ☎ +41 800 563 032 (service)
- ✉ europesales@solisinverters.com deservice@solisinverters.com

Ireland

- ☎ +353 1592 0312 (service)
- ✉ europesales@solisinverters.com ukservice@solisinverters.com

Hungary

- ☎ +36 80216016 (service)
- ✉ HUService@solisinverters.com europesales@solisinverters.com

Finland

- ☎ +358 800552132 (service)
- ✉ euservice@solisinverters.com europesales@solisinverters.com

Croatia

- ✉ CROservice@solisinverters.com europesales@solisinverters.com

Bulgaria

- ✉ BGService@solisinverters.com europesales@solisinverters.com

Slovenia

- ✉ SVNservice@solisinverters.com europesales@solisinverters.com

GINLONG TECHNOLOGIES CO., LTD.

+86 574 6580 2188

sales@ginlong.com

solisinverters.com

service@ginlong.com



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