



Global string inverter manufacturer



Made by Ginlong Technologies
Stock Code: 300763.SZ

Quality Experience Reliability



Solis Manufacturing and R&D Base

16 years

Since 2005

2000+

Global Employees

300+

Technicians



Top-of-range Lifespan Projection in String Inverter Category as Validated by DNV·GL.



COMPANY PROFILE

Established in 2005, Solis (Stock Code: 300763.SZ) is one of most experienced and largest manufacturers of solar inverters.

Ginlong's cost-effective solutions for residential, commercial, and utility-scale users deliver value at every level of the solar supply chain, engaging both homeowners and businesses, as well as power producers and renewable energy investors across the globe.

Presented under the Solis brand, the company's solar inverter product line uses innovative string technology to deliver first-class reliability, validated under the most stringent international certifications.

Combining a global supply chain with world-class R&D and manufacturing capabilities, Ginlong optimizes its Solis inverters for each regional market, servicing and supporting its customers with its team of local experts.

Proven bankability has attracted support from world leading financial institutions, ensuring solid long-term returns on investment. Working with stakeholders to accelerate the worlds journey towards a more sustainable future.

99.1%

Efficiency

\$454M

Total Assets

20 GW+

Capacity



**Wood
Mackenzie**

Single-phase string inverters ranked 2nd in global market shares.

Three-phase string inverters ranked 3rd in global market shares.

 solis

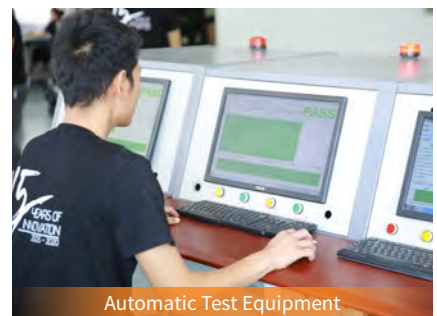


Company Milestones

2005	Ginlong Technologies established in Ningbo, China
2006	Second inverter certified to UK G83 certification
2009	First Asian inverter to achieve USA UL1741 certification
2010	Second Asian inverter certified to AS4777/AS 3100
2011	Ginlong hosted IEC61400 second annual meeting
2015	Ginlong inverter installed on the Eiffel Tower in Paris
2015	Achieved top 12 inverter sales ranking in Europe
2016	Listed by Asia PV innovation
2016	Awarded Best Distribution Inverter Brand by PVBL
2016	Certified to ISO 9001:2015 Standard
2016	Certified to ISO 14001:2015 Standard
2015 ~ 2016	Earned third place ranking in China PV string inverter brand value
2017	Certified to OHSAS 18001:2007 Standard
2018	Single-phase string inverters ranked 2nd in global market shares (GTM)
2019	Ginlong (Solis) listed as a Public Company
2019	Ginlong (Solis) Ranked Third among Asian Brands by BloombergNEF Bankability
2020	Ginlong Solis won PVBL 2019 Annual Top Global PV Brand Award
2020	Three-phase string inverters ranked 3rd in global market shares (GTM)
2016 ~ 2021	Awarded Top Brand PV inverters by EuPD Research
2017 ~ 2021	Granted prestigious APVIA Technology Achievement Award



Vertically-Integrated Manufacturing



Ginlong's vertically-integrated 20GW+ manufacturing allows end-to-end control through every step of production, from component sourcing to final QC. We manage every aspect of manufacturing with state-of-the-art automation, fastidious inspections and rigorous testing, ensuring industry-leading quality. Our in-house SMT circuit board production is unique in the industry, guaranteeing quality and streamlining product innovation in response to customer needs.

Best-in-Class Partners

Capacitors, Inductors



nichicon

NCC株式会社



Connectors, Switching Devices



ZETTLER



OMRON

Panasonic

Materials, IC Categories



AVAGO
TECHNOLOGIES



TOSHIBA

Power Devices, Sensors



VAC
VACUUMSCHMELZE

SiTime™

CREE ⇄



Global Service Network



Service Offices

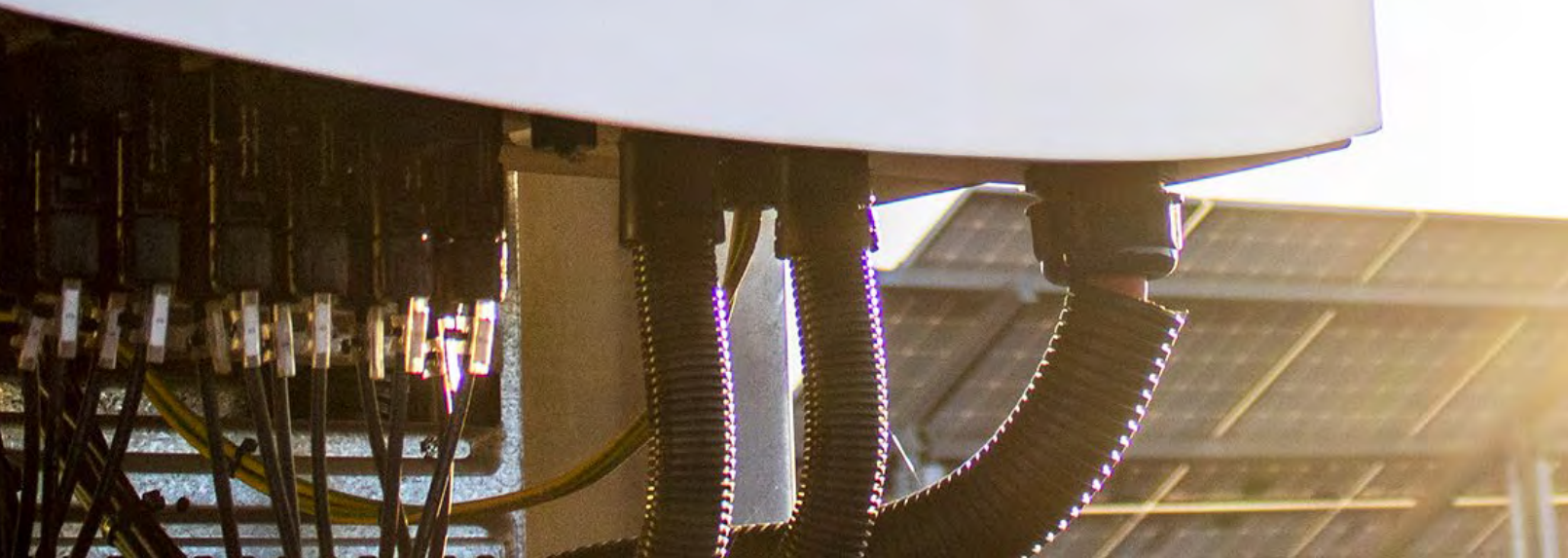
- UK
- China
- South Africa
- Mexico
- Spain
- Vietnam
- Australia
- U.S.A
- Korea
- Netherlands
- Germany
- India
- Romania
- Sweden
- Brazil
- Turkey
- Philippines
- Myanmar

Expert Local Customer Service

- Unmatched experience across a global service network
- Reliable service technicians on the phone and in the field
- Global technical support available



 solis



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S6-GR1P(0.7-3.6)K-M

Solis Mini Series Inverters



360 degree

Features:

- ▶ Max. efficiency 97.3%
- ▶ String current up to **14A**
- ▶ Super high frequency switching technology
- ▶ Wide voltage range and low startup voltage
- ▶ Precise MPPT algorithm
- ▶ Intergrated Export Power Manager (EPM)
- ▶ Integrated AFCI (DC arc-fault circuit protection)
- ▶ Compact and lightweight
- ▶ Friendly and adaptable connection to the grid



Model:

- | | |
|---------------|-------------|
| 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 | |

Datasheet

Model Name	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
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Input DC

Recommended max. PV power	1.1 kW	1.5 kW	2.3 kW	3 kW	3.8 kW	4.5 kW	5.4 kW
Max. input voltage	600 V						
Rated voltage	200 V			330 V			
Start-up voltage	60 V			90 V			
MPPT voltage range	50-500 V			80-500 V			
Max. input current	14 A						19 A
Max. short circuit current	22 A						30 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%	96.6%	96.7%		96.8%

Protection

DC reverse-polarity protection	Yes
Short circuit protection	Yes
Output over current protection	Yes
Surge protection	Yes
Grid monitoring	Yes
Anti-islanding protection	Yes
Temperature protection	Yes
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾
Integrated DC switch	Optional

General Data

Dimensions (W*H*D)	310*373*160 mm	
Weight	7.4 kg	7.7 kg
Topology	Transformerless	
Self consumption (night)	<1 W	
Operating ambient temperature range	-25 ~ +60°C	
Relative humidity	0-100%	
Ingress protection	IP66	
Cooling concept	Natural convection	
Max. operation altitude	4000 m	
Grid connection standard	G98 or G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15 / VFR:2019, RD 1699 / RD 244 / UNE 206006 / UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA	
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4	

Features

DC connection	MC4 connector
AC connection	Quick connection plug
Display	LCD
Communication	RS485, Optional: Wi-Fi, GPRS

(1) Activation required.

S6-GR1P(2.5-6)K

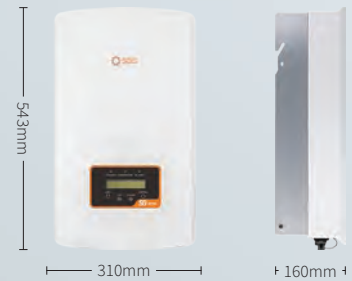
Solis Single Phase Inverters



360 degree

Features:

- ▶ Max. efficiency 97.7%
- ▶ String current up to **14A**
- ▶ Super high frequency switching technology
- ▶ Wide voltage range and low startup voltage
- ▶ 2 MPPT design with precise MPPT algorithm
- ▶ Intergrated Export Power Manager (EPM)
- ▶ Integrated AFCI (DC arc-fault circuit protection)
- ▶ Compact and lightweight
- ▶ Friendly and adaptable connection to the grid



Model:

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

Datasheet

Model Name	S6-GR1P2.5K	S6-GR1P3K	S6-GR1P3.6K	S6-GR1P4K	S6-GR1P4.6K	S6-GR1P5K	S6-GR1P6K
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Input DC

Recommended max. PV power	3.75 kW	4.5 kW	5.4 kW	6 kW	6.9 kW	7.5 kW	9 kW
Max. input voltage	550 V	600 V					
Rated voltage	250 V	330 V					
Start-up voltage	60 V	120 V					
MPPT voltage range	50-450 V	90-520 V					
Max. input current	14 A / 14 A						
Max. short circuit current	22 A / 22 A						
MPPT number/Max. input strings number	2/2						

Output AC

Rated output power	2.5 kW	3 kW	3.6 kW	4 kW	4.6 kW	5 kW	6 kW
Max. apparent output power	2.8 kVA	3.3 kVA	4 kVA	4.4 kVA	5 kVA	5 kVA	6 kVA
Max. output power	2.8 kW	3.3 kW	4 kW	4.4 kW	5 kW	5 kW	6 kW
Rated grid voltage	1/N/PE, 220 V / 230 V						
Rated grid frequency	50 Hz / 60 Hz						
Rated grid output current	11.4 A / 10.9 A	13.6 A / 13.0 A	16.0 A / 15.7 A	18.2 A / 17.4 A	20.9 A / 20.0 A	22.7 A / 21.7 A	27.3 A
Max. output current	13.3 A	15.7 A	16.0 A	21.0 A	23.8 A	25.0 A	27.3 A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)						
THDi	<3%						

Efficiency

Max. efficiency	97.3%	97.3%	97.6%			97.7%
EU efficiency	96.5%	96.6%	97.1%			97.1%

Protection

DC reverse-polarity protection	Yes
Short circuit protection	Yes
Output over current protection	Yes
Surge protection	Yes
Grid monitoring	Yes
Anti-islanding protection	Yes
Temperature protection	Yes
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾
Integrated DC switch	Optional

General Data

Dimensions (W*H*D)	310*543*160 mm						
Weight	11 kg	11.2 kg			12 kg		
Topology	Transformerless						
Self consumption (night)	<1 W						
Operating ambient temperature range	-25 ~ +60°C						
Relative humidity	0-100%						
Ingress protection	IP66						
Cooling concept	Natural convection						
Max. operation altitude	4000 m						
Grid connection standard	G98 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 61000-6-2/-3						

Features

DC connection	MC4 connector
AC connection	Quick connection plug
Display	LCD
Communication	RS485, Optional: Wi-Fi, GPRS

(1) Activation required.

Solis-1P(7-8)K-5G

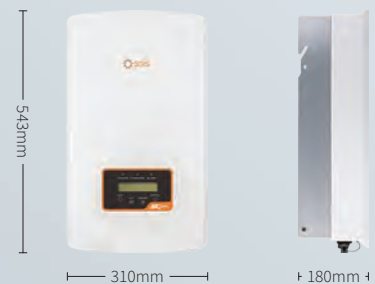
Solis Single Phase Inverters



360 degree

Features:

- ▶ Max. efficiency 98.1%
- ▶ Wide voltage range and low startup voltage
- ▶ 2 MPPT design with precise MPPT algorithm
- ▶ Intergrated Export Power Manager (EPM)
- ▶ Compact and lightweight
- ▶ Friendly and adaptable connection to the grid



Model:

Solis-1P7K-5G

Solis-1P8K-5G

Datasheet

Model Name	Solis-1P7K-5G	Solis-1P8K-5G
Input DC		
Recommended max. PV power	10.5 kW	12 kW
Max. input voltage	600 V	
Rated voltage	330 V	
Start-up voltage	120 V	
MPPT voltage range	90-520 V	
Max. input current	12.5 A / 25 A	
Max. short circuit current	19.5 A / 39 A	
MPPT number/Max. input strings number	2/3	
Output AC		
Rated output power	7 kW	8 kW
Max. apparent output power	7.7 kVA	8 kVA
Max. output power	7.7 kW	8 kW
Rated grid voltage	1/N/PE, 220 V / 230 V	
Rated grid frequency	50 Hz / 60 Hz	
Rated grid output current	30.4 A	34.8 A
Max. output current	33.5 A	34.8 A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)	
THDi	<3%	
Efficiency		
Max. efficiency	98.1%	
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	
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾	
Integrated DC switch	Optional	
General Data		
Dimensions (W*H*D)	310*543*180 mm	
Weight	13.3 kg	
Topology	Transformerless	
Self consumption (night)	<1 W	
Operating ambient temperature range	-25 ~ +60°C	
Relative humidity	0-100%	
Ingress protection	IP65	
Cooling concept	Natural convection	
Max. operation altitude	4000 m	
Grid connection standard	G98 or G99, EN 50549-1, RD 1699 / RD 244 / UNE 206006 / UNE 206007-1, IEC 62116, IEC 61727, IEC60068, IEC 61683, EN 50530	
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4	
Features		
DC connection	MC4 connector	
AC connection	Quick connection plug	
Display	LCD	
Communication	RS485, Optional: Wi-Fi, GPRS	

(1) Activation required.

S5-GR3P(3-20)K

Solis Three Phase Inverters



360 degree

Model:

- S5-GR3P3K S5-GR3P4K S5-GR3P5K S5-GR3P6K S5-GR3P8K S5-GR3P9K S5-GR3P10K
- S5-GR3P12K S5-GR3P13K S5-GR3P15K S5-GR3P17K S5-GR3P20K

Efficient

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

Safe

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

Smart

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

Economic

- ▶ Compact design, simple installation and maintenance
- ▶ > 150% DC/AC ratio
- ▶ Supports high power modules for lower installation costs

Datasheet

Model Name	S5-GR3P3K	S5-GR3P4K	S5-GR3P5K	S5-GR3P6K	S5-GR3P8K	S5-GR3P9K	S5-GR3P10K	S5-GR3P12K	S5-GR3P13K	S5-GR3P15K	S5-GR3P17K	S5-GR3P20K
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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	25 A / 25 A						50 A / 50 A					
MPPT number/Max. input strings number	2/2						2/4					

Output AC

Rated output power	3 kW	4 kW	5 kW	6 kW	8 kW	9 kW	10 kW	12 kW	13 kW	15 kW	17 kW	20 kW
Max. apparent output power	3.3 kVA	4.4 kVA	5.5 kVA	6.6 kVA	8.8 kVA	9.9 kVA	11 kVA	13.2 kVA	14.3 kVA	16.5 kVA	18.7 kVA	22 kVA
Max. output power	3.3 kW	4.4 kW	5.5 kW	6.6 kW	8.8 kW	9.9 kW	11 kW	13.2 kW	14.3 kW	16.5 kW	18.7 kW	22 kW
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V											
Rated grid frequency	50 Hz / 60 Hz											
Rated grid output current	4.6 A / 4.3 A	6.1 A / 5.8 A	7.6 A / 7.2 A	9.1 A / 8.7 A	12.2 A / 11.5 A	13.7 A / 13.0 A	15.2 A / 14.4 A	18.2 A / 17.3 A	19.8 A / 18.8 A	22.8 A / 21.7 A	25.8 A / 24.6 A	30.4 A / 28.9 A
Max. output current	4.7 A	6.4 A	7.9 A	9.5 A	12.7 A	14.3 A	15.9 A	19.1 A	20.7 A	23.8 A	27 A	31.8 A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)											
THDi	<2%											

Efficiency

Max. efficiency	98.3%			98.5%			98.6%			98.7%		
EU efficiency	97.7%			97.9%			98.0%			98.1%		

Protection

DC reverse-polarity protection	Yes											
Short circuit protection	Yes											
Output over current protection	Yes											
Surge protection	Yes											
Grid monitoring	Yes											
Anti-islanding protection	Yes											
Temperature protection	Yes											
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾											
Integrated DC switch	Optional											

General Data

Dimensions (W*H*D)	310*563*219 mm											
Weight	17.8 kg						18.8 kg			20 kg		
Topology	Transformerless											
Self consumption (night)	<1 W											
Operating ambient temperature range	-25 ~ +60°C											
Relative humidity	0-100%											
Ingress protection	IP66											
Cooling concept	Natural convection						Intelligent redundant fan-cooling					
Max. operation altitude	4000 m											
Grid connection standard	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											
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4											

Features

DC connection	MC4 connector											
AC connection	Quick connection plug											
Display	LCD											
Communication	RS485, Optional: Wi-Fi, GPRS											

(1) Activation required.

S5-GR3P(5-10)K-LV

Solis Three Phase Inverters



360 degree

Model:

220V: S5-GR3P5K-LV S5-GR3P6K-LV S5-GR3P10K-LV



Efficient

- ▶ Max. efficiency 98.0%
- ▶ String current up to **16A**
- ▶ Wide voltage range and low startup voltage



Safe

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



Smart

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



Economic

- ▶ Compact design, simple installation and maintenance
- ▶ > 150% DC/AC ratio
- ▶ Supports high power modules for lower installation costs

Datasheet

Model Name	S5-GR3P5K-LV	S5-GR3P6K-LV	S5-GR3P10K-LV
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	25 A / 25 A		50 A / 50 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		
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾		
Integrated DC switch	Optional		
General Data			
Dimensions (W*H*D)	310*563*219 mm		
Weight	17.8 kg	20 kg	
Topology	Transformerless		
Self consumption (night)	<1 W		
Operating ambient temperature range	-25 ~ +60°C		
Relative humidity	0-100%		
Ingress protection	IP66		
Cooling concept	Natural convection	Intelligent redundant fan-cooling	
Max. operation altitude	4000 m		
Grid connection standard	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		
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4		
Features			
DC connection	MC4 connector		
AC connection	Quick connection plug		
Display	LCD		
Communication	RS485, Optional: Wi-Fi, GPRS		

(1) Activation required.

S5-GC(15-23)K-LV

Solis Three Phase Inverters



360 degree

Model:

220V: S5-GC15K-LV S5-GC20K-LV S5-GC23K-LV



Efficient

- ▶ Max. efficiency 98.3%
- ▶ String current up to **16A**
- ▶ 3 MPPT design, supports multiple orientation system design
- ▶ Night time PID recovery function, increases overall system yield (optional)
- ▶ Wide voltage range and low startup voltage



Safe

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



Smart

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



Economic

- ▶ Supports GPRS/WiFi communication with less wiring and reduced installation costs
- ▶ > 150% DC/AC ratio
- ▶ Supports high power modules for lower installation costs
- ▶ Supports aluminium wire access to reduce cost

Datasheet

Model Name	S5-GC15K-LV	S5-GC20K-LV	S5-GC23K-LV
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	50 A / 50 A / 50 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	98.0%		
EU efficiency	97.5%		
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 PID recovery	Optional		
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾		
Integrated DC switch	Optional		
General Data			
Dimensions (W*H*D)	647*629*252 mm		
Weight	37 kg		
Topology	Transformerless		
Self consumption (night)	<1 W		
Operating ambient temperature range	-25 ~ +60°C		
Relative humidity	0-100%		
Ingress protection	IP66		
Cooling concept	Intelligent redundant fan-cooling		
Max. operation altitude	4000 m		
Grid connection standard	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	LCD		
Communication	RS485, Optional: Wi-Fi, GPRS		

(1) Activation required.

S5-GC(25-36)K-LV

Solis Three Phase Inverters



360 degree

Model:

220V: S5-GC25K-LV S5-GC30K-LV S5-GC36K-LV

Efficient

- ▶ Max. efficiency 98.4%
- ▶ String current up to **16A**
- ▶ 4 MPPT design, supports multiple orientation system design
- ▶ Night time PID recovery function, increases overall system yield (optional)

Smart

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

Safe

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

Economic

- ▶ Supports PLC/GPRS/WiFi communication with less wiring and reduced installation costs
- ▶ DC side supports "Y" connectors
- ▶ Supports aluminium wire access to reduce cost
- ▶ 8 string inputs allow for 150%+ DC oversizing

Datasheet

Model Name	S5-GC25K-LV	S5-GC30K-LV	S5-GC36K-LV
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*50 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		
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾		
Integrated PID recovery	Optional ⁽²⁾		
Integrated DC switch	Optional		
General Data			
Dimensions (W*H*D)	691*578*338 mm		
Weight	54.5 kg		
Topology	Transformerless		
Self consumption (night)	<1 W		
Operating ambient temperature range	-25 ~ +60°C		
Relative humidity	0-100%		
Ingress protection	IP66		
Cooling concept	Intelligent redundant fan-cooling		
Max. operation altitude	4000 m		
Grid connection standard	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, Capacitive touch buttons		
Communication	RS485, USB, Optional: Wi-Fi, GPRS, PLC ⁽³⁾		

(1) Activation required.

(2) Due to the similar functional logic, when the night time PID-Recovery function is integrated, the night time var compensation function can not be used. Also, the negative grounding option is not available for inverters with night time PID-Recovery function.

(3) The PLC communication can not work with RS485 communication at the same time. If already installed the PLC CCO for PLC communication on site, then the RS485 ports on the inverters can not be used to connect another monitoring/control device.

S5-GC(25-40)K

Solis Three Phase Inverters



360 degree

Model:

400V: S5-GC25K S5-GC30K S5-GC33K S5-GC36K S5-GC40K



Efficient

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



Smart

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



Safe

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



Economic

- ▶ Supports GPRS/WiFi communication with less wiring and reduced installation costs
- ▶ > 150% DC/AC ratio
- ▶ Supports high power modules for lower installation costs
- ▶ Supports aluminium wire access to reduce cost

Datasheet

Model Name	S5-GC25K	S5-GC30K	S5-GC33K	S5-GC36K	S5-GC40K
Input DC					
Recommended max. PV power	37.5 kW	45 kW	49.5 kW	54 kW	60 kW
Max. input voltage	1100 V				
Rated voltage	600 V				
Start-up voltage	180 V				
MPPT voltage range	200-1000 V				
Max. input current	32 A / 32 A / 32 A			4*32 A	
Max. short circuit current	50 A / 50 A / 50 A			4*50 A	
MPPT number/Max. input strings number	3/6			4/8	
Output AC					
Rated output power	25 kW	30 kW	33 kW	36 kW	40 kW
Max. apparent output power	27.5 kVA	33 kVA	36.3 kVA	39.6 kVA	44 kVA
Max. output power	27.5 kW	33 kW	36.3 kW	39.6 kW	44 kW
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V				
Rated grid frequency	50 Hz / 60 Hz				
Rated grid output current	38.0 A / 36.1 A	45.6 A / 43.3 A	50.1 A / 47.6 A	54.7 A / 52.0 A	60.8 A / 57.7 A
Max. output current	41.8 A	50.2 A	55.1 A	60.2 A	66.9 A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)				
THDi	<3%				
Efficiency					
Max. efficiency	98.5%		98.6%		98.7%
EU efficiency	98.1%		98.2%		98.3%
Protection					
DC reverse-polarity protection	Yes				
Short circuit protection	Yes				
Output over current protection	Yes				
Surge protection	DC Type II / AC Type II				
Grid monitoring	Yes				
Anti-islanding protection	Yes				
Temperature protection	Yes				
Strings monitoring	Yes				
I/V Curve scanning	Yes				
Integrated PID recovery	Optional				
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾				
Integrated DC switch	Optional				
General Data					
Dimensions (W*H*D)	647*629*252 mm				
Weight	37 kg				
Topology	Transformerless				
Self consumption (night)	<1 W				
Operating ambient temperature range	-25 ~ +60°C				
Relative humidity	0-100%				
Ingress protection	IP66				
Cooling concept	Intelligent redundant fan-cooling				
Max. operation altitude	4000 m				
Grid connection standard	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	LCD				
Communication	RS485, Optional: Wi-Fi, GPRS				

(1) Activation required.

S5-GC(50-70)K

Solis Three Phase Inverters



360 degree

Model:

400V: S5-GC50K S5-GC60K **480V:** S5-GC60K-HV S5-GC70K-HV



Efficient

- ▶ Max. efficiency 98.7%
- ▶ String current up to **16A**
- ▶ 5/6 MPPT design, supports multiple orientation system design
- ▶ Night time PID recovery function, increases overall system yield (optional)



Smart

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



Safe

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



Economic

- ▶ Supports PLC/GPRS/WiFi communication with less wiring and reduced installation costs
- ▶ DC side supports "Y" connector
- ▶ Supports aluminium wire access to reduce cost
- ▶ 10/12 string inputs allow for 150%+ DC oversizing

Datasheet

Model Name	S5-GC50K	S5-GC60K	S5-GC60K-HV	S5-GC70K-HV
Input DC				
Max. input voltage	1100 V			
Rated voltage	600 V		720 V	
Start-up voltage	195 V			
MPPT voltage range	180-1000 V			
Max. input current	5*32 A		6*32 A	
Max. short circuit current	5*50 A		6*50 A	
MPPT number/Max. input strings number	5/10		6/12	
Output AC				
Rated output power	50 kW	60 kW	60 kW	70 kW
Max. apparent output power	55 kVA	66 kVA	66 kVA	77 kVA
Max. output power	55 kW	66 kW	66 kW	77 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	76.0 A / 72.2 A	91.2 A / 86.6 A	72.2 A	84.2 A
Max. output current	83.6 A	100.3 A	79.4 A	92.6 A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)			
THDi	<3%			
Efficiency				
Max. efficiency	98.7%			
EU efficiency	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			
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾			
Integrated PID recovery	Optional ⁽²⁾			
Integrated DC switch	Optional			
General Data				
Dimensions (W*H*D)	691*578*338 mm			
Weight	54.5 kg			
Topology	Transformerless			
Self consumption (night)	<1 W			
Operating ambient temperature range	-25 ~ +60°C			
Relative humidity	0-100%			
Ingress protection	IP66			
Cooling concept	Intelligent redundant fan-cooling			
Max. operation altitude	4000 m			
Grid connection standard	VDE-AR-N 4105, VDE V 0124, VDE V 0126-1-1, UTE C15-712-1, NRS 097-1-2, G98, G99, EN 50549-1/-2, NTS 631, UNE 206006, UNE 206007-1, IEC61727, DEWA			
Safety/EMC standard	IEC 62109-1/-2, IEC62116 & IEC 61000-6-1/-2/-3/-4			
Features				
DC connection	MC4 connector			
AC connection	OT terminal (max. 70 mm ²)			
Display	LCD, Capacitive touch buttons			
Communication	RS485, USB, Optional: Wi-Fi, GPRS, PLC ⁽³⁾			

(1) Activation required.

(2) Due to the similar functional logic, when the night time PID-Recovery function is integrated, the night time var compensation function can not be used. Also, the negative grounding option is not available for inverters with night time PID-Recovery function.

(3) The PLC communication can not work with RS485 communication at the same time. If already installed the PLC CCO for PLC communication on site, then the RS485 ports on the inverters can not be used to connect another monitoring/control device.

Solis-(80-110)K-5G

Solis Three Phase Inverters



Model:

400V: Solis-80K-5G **480V:** Solis-100K-HV-5G **540V:** Solis-110K-BHV-5G



360 degree



Efficient

- ▶ 9/10 MPPTs, max. efficiency 98.8%
- ▶ > 150% DC/AC ratio
- ▶ Compatible with bifacial modules



Safe

- ▶ IP66
- ▶ Built-in PID recovery for better module performance (optional)
- ▶ Globally recognised branded componentry for longer life



Smart

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



Economic

- ▶ Power line communication (PLC) (optional)
- ▶ DC side supports "Y" connector
- ▶ Supports aluminium wire access to reduce cost

Datasheet

Model Name	Solis-80K-5G	Solis-100K-HV-5G	Solis-110K-BHV-5G
Input DC			
Max. input voltage	1100 V		
Rated voltage	600 V	720 V	
Start-up voltage	195 V		
MPPT voltage range	180-1000 V		
Max. input current	9*26 A	10*26 A	
Max. short circuit current	9*40 A	10*40 A	
MPPT number/Max. input strings number	9/18	10/20	
Output AC			
Rated output power	80 kW	100 kW	110 kW
Max. apparent output power	88 kVA	110 kVA	121 kVA
Max. output power	88 kW	110 kW	121 kW
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V	3/PE, 480 V	3/PE, 540 V
Rated grid frequency	50 Hz / 60 Hz		
Rated grid output current	121.6 A / 115.5 A	120.3 A	117.6 A
Max. output current	133.7 A	132.3 A	129.4 A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)		
THDi	<3%		
Efficiency			
Max. efficiency	98.7%	98.8%	
EU efficiency	98.3%	98.5%	
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 PID recovery	Optional		
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾		
Integrated DC switch	Yes		
Integrated AC switch	Optional		
General Data			
Dimensions (W*H*D)	1050*567*314.5 mm (with AC switch)		
Weight	82 kg		
Topology	Transformerless		
Self consumption (night)	<2 W		
Operating ambient temperature range	-25 ~ +60°C		
Relative humidity	0-100%		
Ingress protection	IP66		
Cooling concept	Intelligent redundant fan-cooling		
Max. operation altitude	4000 m		
Grid connection standard	G98 or G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15 / VFR:2019, CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530		
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4		
Features			
DC connection	MC4 connector		
AC connection	OT terminal (max. 185 mm ²)		
Display	LCD		
Communication	RS485, Optional: Wi-Fi, GPRS, PLC		

(1) Activation required.

Solis-(100-125)K-5G

Solis Three Phase Inverters



Model:

400V: Solis-100K-5G Solis-110K-5G

480V: Solis-125K-HV-5G



360 degree



Efficient

- ▶ 10 MPPTs, max. efficiency 99.0%
- ▶ > 150% DC/AC ratio
- ▶ High power tracking density 90MPPT/MW
- ▶ Compatible with bifacial modules



Safe

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



Smart

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



Economic

- ▶ Power line communication (PLC) (optional)
- ▶ DC side supports "Y" connector
- ▶ Supports aluminium wire access to reduce cost

Datasheet

Model Name	Solis-100K-5G	Solis-110K-5G	Solis-125K-HV-5G
Input DC			
Max. input voltage	1100 V		
Rated voltage	600 V		720 V
Start-up voltage	195 V		
MPPT voltage range	180-1000 V		
Max. input current	10*26 A		
Max. short circuit current	10*40 A		
MPPT number/Max. input strings number	10/20		
Output AC			
Rated output power	100 kW	110 kW	125 kW
Max. apparent output power	110 kVA	121 kVA	137.5 kVA
Max. output power	110 kW	121 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	152.0 A / 144.3 A	167.1 A / 158.8 A	150.4 A
Max. output current	167.1 A	183.8 A	165.4 A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)		
THDi	<3%		
Efficiency			
Max. efficiency	98.7%		99.0%
EU efficiency	98.3%		98.5%
Protection			
DC reverse-polarity protection	Yes		
Short circuit protection	Yes		
Output over current protection	Yes		
Surge protection	DC Type II / AC Type II (AC Type I optional)		
Grid monitoring	Yes		
Anti-islanding protection	Yes		
Temperature protection	Yes		
Strings monitoring	Yes		
I/V Curve scanning	Yes		
Integrated PID recovery	Optional		
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾		
Integrated DC switch	Yes		
Integrated AC switch	Optional		
General Data			
Dimensions (W*H*D)	1065*567*344.5 mm		
Weight	84 kg		
Topology	Transformerless		
Self consumption (night)	<2 W		
Operating ambient temperature range	-25 ~ +60°C		
Relative humidity	0-100%		
Ingress protection	IP66		
Cooling concept	Intelligent redundant fan-cooling		
Max. operation altitude	4000 m		
Grid connection standard	VDE-AR-N 4105, VDE V 0124, VDE V 0126-1-1, UTE C15-712-1, NRS 097-1-2, G98, G99, EN 50549-1/-2, RD 1699, UNE 206006, UNE 206007-1, IEC61727, DEWA		
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4		
Features			
DC connection	MC4 connector		
AC connection	OT terminal (max. 185 mm ²)		
Display	LCD		
Communication	RS485, Optional: Wi-Fi, GPRS, PLC		

(1) Activation required.

S5-GC(100-125)K

Solis Three Phase Inverters



Model:

400V: S5-GC100K S5-GC110K 480V: S5-GC125K-HV



360 degree

Efficient

- ▶ 10 MPPTs, max. efficiency 99.0%
- ▶ > 150% DC/AC ratio
- ▶ High power tracking density 90MPPT/MW
- ▶ String current up to **16A**, perfectly match large current bifacial modules

Smart

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

Safe

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

Economic

- ▶ Power line communication (PLC) (optional)
- ▶ DC side supports "Y" connector
- ▶ Supports aluminium wire access to reduce cost

Datasheet

Model Name	S5-GC100K	S5-GC110K	S5-GC125K-HV
Input DC			
Max. input voltage	1100 V		
Rated voltage	600 V		720 V
Start-up voltage	195 V		
MPPT voltage range	180-1000 V		
Max. input current	10*32 A		
Max. short circuit current	10*50 A		
MPPT number/Max. input strings number	10/20		
Output AC			
Rated output power	100 kW	110 kW	125 kW
Max. apparent output power	110 kVA	121 kVA	137.5 kVA
Max. output power	110 kW	121 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	152.0 A / 144.3 A	167.1 A / 158.8 A	150.4 A
Max. output current	167.1 A	183.8 A	165.4 A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)		
THDi	<3%		
Efficiency			
Max. efficiency	98.7%		99.0%
EU efficiency	98.3%		98.6%
Protection			
DC reverse-polarity protection	Yes		
Short circuit protection	Yes		
Output over current protection	Yes		
Surge protection	DC Type II / AC Type II (AC Type I optional)		
Grid monitoring	Yes		
Anti-islanding protection	Yes		
Temperature protection	Yes		
Strings monitoring	Yes		
I/V Curve scanning	Yes		
Integrated PID recovery	Optional		
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾		
Integrated DC switch	Yes		
Integrated AC switch	Optional		
General Data			
Dimensions (W*H*D)	1065*567*344.5 mm		
Weight	91 kg		
Topology	Transformerless		
Self consumption (night)	<2 W		
Operating ambient temperature range	-25 ~ +60°C		
Relative humidity	0-100%		
Ingress protection	IP66		
Cooling concept	Intelligent redundant fan-cooling		
Max. operation altitude	4000 m		
Grid connection standard	VDE-AR-N 4105, VDE V 0124, VDE V 0126-1-1, UTE C15-712-1, NRS 097-1-2, G98, G99, EN 50549-1/-2, RD 1699, UNE 206006, UNE 206007-1, IEC61727, DEWA		
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4		
Features			
DC connection	MC4 connector		
AC connection	OT terminal (max. 185 mm ²)		
Display	LCD		
Communication	RS485, Optional: Wi-Fi, GPRS, PLC		

(1) Activation required.

Solis-125K-EHV-5G

Solis Three Phase Inverters



Model:

600V: Solis-125K-EHV-5G



360 degree

Efficient

- ▶ Max. efficiency 99.1%
- ▶ > 150% DC/AC ratio
- ▶ Compatible with bifacial modules

Safe

- ▶ Built-in PID recovery for better module performance
- ▶ Equipped with AC/DC switch, safe and convenient maintenance
- ▶ Globally recognised branded componentry for longer life

Smart

- ▶ Strong reactive power compensation
- ▶ Multiple communication modes applicable to various scenarios
- ▶ Remote firmware upgrade with simple operation

Economic

- ▶ Max. DC input voltage: 1500V
- ▶ Supports aluminium wire access to reduce cost

Datasheet

Model Name	Solis-125K-EHV-5G
Input DC	
Max. input voltage	1500 V
Rated voltage	950 V
Start-up voltage	900 V
MPPT voltage range	860-1450 V
Max. input current	150 A
Max. short circuit current	300 A
MPPT number/Max. input strings number	1/20
Output AC	
Rated output power	125 kW
Max. apparent output power	125 kVA
Max. output power	125 kW
Rated grid voltage	3/PE, 600 V
Rated grid frequency	50 Hz / 60 Hz
Rated grid output current	120.3 A
Max. output current	120.3 A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)
THDi	<3%
Efficiency	
Max. efficiency	99.1%
EU efficiency	98.6%
Protection	
DC reverse-polarity protection	Yes
Short circuit protection	Yes
Output over current protection	Yes
Surge protection	DC Type II / AC Type II
Grid monitoring	Yes
Anti-islanding protection	Yes
Temperature protection	Yes
Strings monitoring	Yes
I/V Curve scanning	Yes
Integrated DC switch	Yes
Integrated AC switch	Yes
General Data	
Dimensions (W*H*D)	1178*713.5*315 mm
Weight	84 kg
Topology	Transformerless
Self consumption (night)	<3 W (without anti-PID)
Operating ambient temperature range	-25 ~ +60°C
Relative humidity	0-100%
Ingress protection	IP65
Cooling concept	Intelligent redundant fan-cooling
Max. operation altitude	4000 m
Grid connection standard	G98 or G99 , EN 50549-1/-2, IEC61727, IEC62116
Safety/EMC standard	IEC 62109-1/-2, EN 61000-6-2/-4
Features	
DC connection	MC4 connector
AC connection	OT terminal (max. 185 mm ²)
Display	LCD
Communication	RS485, Optional: Wi-Fi, GPRS, Ethernet

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

Solis Three Phase Inverters



Model:

800V: Solis-215K-EHV-5G-PLUS Solis-255K-EHV-5G Solis-255K-EHV-5G-PLUS



360 degree



Efficient

- ▶ 9/12/14 MPPTs, max. efficiency 99.0%
- ▶ 150% DC/AC ratio
- ▶ High power tracking density 60MPPT/MW
- ▶ Compatible with 500W+ bifacial modules



Safe

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



Smart

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



Economic

- ▶ Power line communication (PLC) (optional)
- ▶ DC side supports "Y" connector
- ▶ Supports aluminium wire access to reduce cost
- ▶ Reserve DC energy storage access

Datasheet

Model Name	Solis-215K-EHV-5G-PLUS	Solis-255K-EHV-5G	Solis-255K-EHV-5G-PLUS
Input DC			
Max. input voltage	1500 V		
Rated voltage	1080 V		
Start-up voltage	500 V		
MPPT voltage range	480-1500 V		
Max. input current	9*30 A	14*26 A	12*30 A
Max. short circuit current	9*50 A	14*40 A	12*50 A
MPPT number/Max. input strings number	9/18	14/28	12/24
Output AC			
Rated output power	215 kVA @ 30°C / 205 kVA @ 40°C / 195 kVA @ 50°C	255 kVA @ 30°C / 235 kVA @ 40°C / 220 kVA @ 50°C	255 kVA @ 30°C / 235 kVA @ 40°C / 220 kVA @ 50°C
Rated grid voltage	3/PE, 800 V		
Grid voltage range	640-920 V		
Rated grid frequency	50 Hz / 60 Hz		
Max. output current	155.2 A	184.0 A	184.0 A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)		
THDi	<3%		
Efficiency			
Max. efficiency	99.0%		
EU efficiency	98.8%	98.7%	98.8%
Protection			
DC reverse-polarity protection	Yes		
Short circuit protection	Yes		
Output over current protection	Yes		
Surge protection	DC Type II / AC Type II		
Grid monitoring	Yes		
Anti-islanding protection	Yes		
Temperature protection	Yes		
Strings monitoring	Yes		
I/V Curve scanning	Yes		
Night time SVG function	Yes		
Integrated PID recovery	Yes		
	Yes		
General Data			
Dimensions (W*H*D)	1125*770*384 mm		
Weight	113 kg		
Topology	Transformerless		
Self consumption (night)	<2 W		
Operating ambient temperature range	-25 ~ +60°C		
Relative humidity	0-100%		
Ingress protection	IP66		
Cooling concept	Intelligent redundant fan-cooling		
Max. operation altitude	4000 m		
Grid connection standard	EN50549, G99, AS4777.2, VDE0126, IEC61727, VDE4110, CEA 2019		
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4		
Features			
DC connection	MC4 connector		
AC connection	OT terminal (max. 300 mm ²)		
Display	LCD		
Communication	RS485, Optional: PLC		

Solis-6300-MV

Solis PV Station

»» For **1500 V** string inverter Solis 255K



Integrated delivery

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

Convenient installation

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

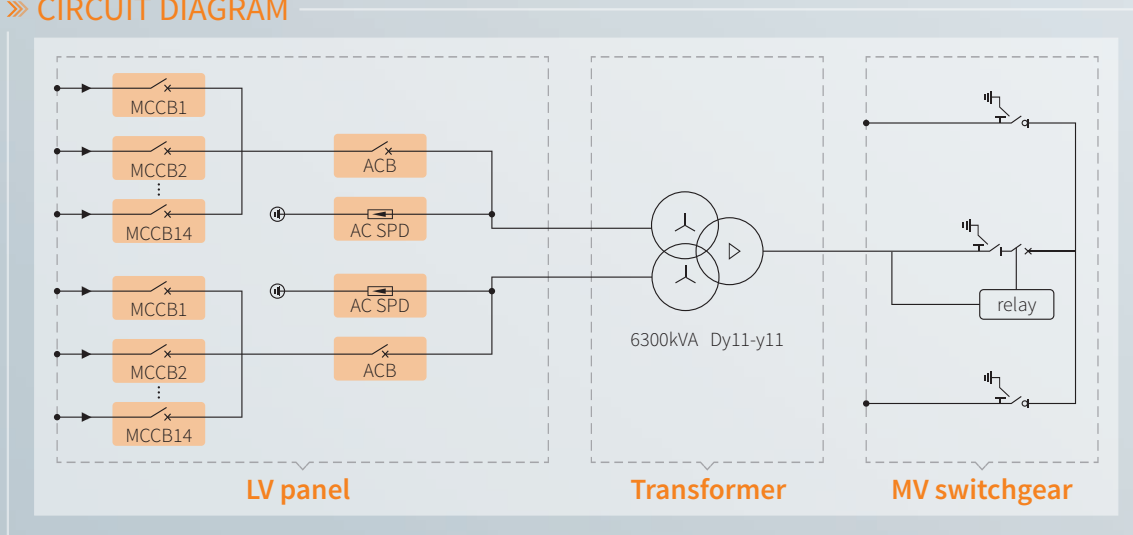
Reliable products

- ▶ LV panel, transformer and RMU 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

Model Name	Solis-6300-MV
------------	---------------

LV panel

MCCB specification	250 A / 800 Vac / 3P, 14*2 pcs
ACB specification	3200 A / 800 Vac / 3P, 1*2 pcs
Connection form with transformer	Copper busbar

Transformer

Transformer type	Oil immersed
Rated output power	6300 kVA @ 40°C
Max output power	6930 kVA @ 40°C 3h
LV/MV voltage	0.8 kV / 20-35 kV
Maximum input current	2577 A *2
Tapping on HV	±2*2.5%
Vector group	Dy11y11
Frequency	50 Hz / 60 Hz
cooling type	ONAN
Impedance	7.5%
Oil type	Mineral oil (Optional: plant oil)
Winding material	Al/Al (Optional: Cu/Cu)
Insulation class	A
Connection form with MV switchgear	Cable

MV Switchgear

Type of insulate	SF6
Rate voltage	24-36 kV
Rate current	630 A
internal arcing fault	20 kA / 1 s
Qty of feeder	3 feeders

Protection

LV surge protection	AC type I+II
AC input protection	Circuit breaker
Transformer protection	Oil-temperature, oil-level, oil-pressure
Fire protection	Smoke detection, emergency lighting

General Data

Dimensions (W*H*D)	6058*2896*2438 mm
Approximate weight	24 T
Operating temperature range	-25 ~ +60°C
Operating altitude	1000 m (standard)
Auxiliary power supply	5 kVA / 230 V (Optional: max. 40 kVA)
UPS	1 kVA 30 min (Optional: max. 2 kVA 2h)
Degree of protection	IP54
Allowable relative humidity range	0-95%
Comunication	RS485, Ethernet, Optical fiber
Compliance	IEC 60076, IEC 62271, IEC61439

RAI-3K-48ES-5G

Solis Energy Storage Inverters



360 degree

Features:

- ▶ Uninterrupted power supply, 20ms reaction
- ▶ Compatible with both lead-acid battery and li-ion battery
- ▶ Compatible with any existing grid-tied PV system, option to upgrade
- ▶ Off-grid backup function
- ▶ EPS function
- ▶ Intelligent EMS function
- ▶ Intelligent debugging APP which support one-click inverter configuration
- ▶ CAN, RS485 (Optional)
- ▶ Various work mode for different application scenario
- ▶ Natural cooling without external fan



Model:

RAI-3K-48ES-5G

Datasheet

Model Name	RAI-3K-48ES-5G
Output AC (Grid side)	
Rated output power	3 kW
Max. apparent output power	3.3 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 power	3 kW
Max. charge / discharge current	60 A
Communication	CAN
Output AC (Back-up)	
Rated output power	3kW (Requires battery voltage higher than 55 V)
Max. apparent output power	4.5 kVA
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	13.6 A / 13 A
THDv (linear load)	<3%
Input AC (Grid side)	
Input voltage range	184-264 V
Max. input current	32 A
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 convection
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

RHI-(3-6)K-48ES-5G

Solis Energy Storage Inverters



360 degree

Features:

- ▶ Uninterrupted power supply, 20ms reaction
- ▶ 5kW backup power to support more important loads
- ▶ With shifting and peak shaving capabilities friendly to grid
- ▶ Multiple working modes to make maximize self-consumption, increase benefit
- ▶ Higher charge-discharge efficiency, improving the economic benefits
- ▶ Compatible with lithium & lead-acid batteries, increased more choice in different markets
- ▶ Fanless design, long lifespan
- ▶ Intelligent EMS function, improving battery's reliability
- ▶ With high-frequency isolation technology, making system safer and long lifespan
- ▶ 24-hour fully intelligent energy management, Real-time grasp of PV plant status
- ▶ Remotely control & upgrade function, making digital power plant maintenance at your fingertips



Model:

RHI-3K-48ES-5G

RHI-3.6K-48ES-5G

RHI-4.6K-48ES-5G

RHI-5K-48ES-5G

RHI-6K-48ES-5G

Datasheet

Model Name	RHI-3K-48ES-5G	RHI-3.6K-48ES-5G	RHI-4.6K-48ES-5G	RHI-5K-48ES-5G	RHI-6K-48ES-5G
Input DC (PV side)					
Recommended max. PV power	7 kW	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			11 A / 11 A		
Max. short circuit current			17.2 A / 17.2 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 kVA				6 kVA
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	13.6 A / 13 A				22.7 A / 22 A
THDv (linear load)	<2%				
Input AC (Grid side)					
Input voltage range	184-264 V				
Max. input current	26.1 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 kVA
Operation phase	1/N/PE				
Rated grid voltage	220 V / 230 V				
Rated grid frequency	50 Hz / 60 Hz				
Rated grid output current	13.6 A / 13 A	16.3 A / 15.7 A	20.9 A / 20 A	22.7 A / 21.7 A	27.2 A / 26.1 A
Max. output current	15.7 A	17.3 A	23 A	23.9 A	26.1 A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)				
THDi	<2%				
Efficiency					
Max. efficiency	>97.5%				
EU efficiency	>96.8%				
Protection					
DC reverse-polarity protection	Yes				
Short circuit protection	Yes				
Output over current protection	Yes				
Surge protection	DC Type II / AC Type II				
Ground fault monitoring	Yes				
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾				
Protection class/Over voltage category	I/II				
General Data					
Dimensions (W*H*D)	340*510*250 mm				
Weight	18.3 kg				
Topology	High frequency isolation (for battery)				
Operating ambient temperature range	-25 ~ +60°C				
Ingress protection	IP65				
Cooling concept	Natural convection				
Max. operation altitude	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, EN 50530, MEA, PEA				
Safety/EMC standard	IEC/EN 62109-1/-2, EN 61000-6-2/-3				
Features					
DC connection	MC4 connector				
AC connection	Quick connection plug				
Display	7.0"LCD color screen display				
Communication	RS485, Optional: Wi-Fi, GPRS				

(1) Activation required.

S5-EH1P(3-6)K-L

Solis Energy Storage Inverters



360 degree

Features:

- ▶ Max. string input current **15A**
- ▶ Uninterrupted power supply, 20ms reaction
- ▶ 5kW backup power to support more important loads
- ▶ With shifting and peak shaving capabilities friendly to grid
- ▶ Multiple working modes to make maximize self-consumption, increase benefit
- ▶ Higher charge-discharge efficiency, improving the economic benefits
- ▶ Compatible with lithium & lead-acid batteries, increased more choice in different markets
- ▶ Fanless design, long lifespan
- ▶ Intelligent EMS function, improving battery's reliability
- ▶ With high-frequency isolation technology, making system safer and long lifespan
- ▶ 24-hour fully intelligent energy management, Real-time grasp of PV plant status
- ▶ Remotely control & upgrade function, making digital power plant maintenance at your fingertips



Model:

- | | |
|---------------|---------------|
| S5-EH1P3K-L | S5-EH1P3.6K-L |
| S5-EH1P4.6K-L | S5-EH1P5K-L |
| S5-EH1P6K-L | |

Datasheet

Model Name	S5-EH1P3K-L	S5-EH1P3.6K-L	S5-EH1P4.6K-L	S5-EH1P5K-L	S5-EH1P6K-L
Input DC (PV side)					
Recommended max. PV power	4.8 kW	5.7 kW	8 kW	8 kW	8 kW
Max. input voltage	600 V				
Rated voltage	330 V				
Start-up voltage	120 V				
MPPT voltage range	90-520 V				
Max. input current	15 A / 15 A				
Max. short circuit current	22.5 A / 22.5 A				
MPPT number/Max. input strings number	2/2				
Battery					
Battery type	Li-ion / Lead-acid				
Battery voltage range	42 - 58 V				
Battery capacity	50 - 2000 Ah				
Max. charge / discharge power	3 kW				5 kW
Max. charge / discharge current	62.5 A				100 A
Communication	CAN				
Output AC (Back-up)					
Rated output power	3 kW			5 kW	
Max. apparent output power	4.5 kVA, 10SEC			7 kVA, 10SEC	
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 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 / 14.5 A	18.5 A / 17.5 A	21 A / 20 A	25 A / 24 A	30 A / 29 A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)				
THDi	<2%				
Efficiency					
Max. efficiency	>97.1%				
EU efficiency	>96.5%				
Protection					
DC reverse-polarity protection	Yes				
Short circuit protection	Yes				
Output over current protection	Yes				
Surge protection	DC Type II / AC Type II				
Ground fault monitoring	Yes				
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾				
Protection class/Over voltage category	I/II				
General Data					
Dimensions (W*H*D)	340*510*250 mm				
Weight	18.3 kg				
Topology	High frequency isolation (for battery)				
Operating ambient temperature range	-25 ~ +60°C				
Ingress protection	IP65				
Cooling concept	Natural convection				
Max. operation altitude	3000 m				
Grid connection standard	G98 or G99, VDE-AR-N 4105/VDE V 0124, EN 50549-1, VDE 0126/UTE C 15/VFR:2019, RD 1699/RD 244/UNE 206006/UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA				
Safety/EMC standard	IEC/EN 62109-1/-2, EN 61000-6-2/-3				
Features					
DC connection	MC4 connector				
AC connection	Quick connection plug				
Display	7.0"LCD color screen display				
Communication	RS485, Optional: Wi-Fi, GPRS				

(1) Activation required.

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

Solis Energy Storage Inverters



360 degree

Features:

- ▶ Max. efficiency 98.4%
- ▶ 2 MPPT and 4 DC input; Max 26A DC input current
- ▶ 3 operating modes (self-consumption; time-of-use; off-grid back-up) & programmable energy management
- ▶ Power supply can be switched automatically and switching time within 40ms
- ▶ Ensures AC backup for up to 10kW of continuous power and 16kVA of peak power
- ▶ Time of use shifting and peak shaving capabilities to grid
- ▶ Solis supply optional arc fault circuit interrupter (AFCI) function
- ▶ Intelligent EMS function
- ▶ Support three-phase imbalance
- ▶ 24-hour fully intelligent energy management, Real-time grasp of PV plant status
- ▶ Remotely control & upgrade function, making digital power plant maintenance at your fingertips



Model:

- | | |
|------------------|-------------------|
| RHI-3P5K-HVES-5G | RHI-3P6K-HVES-5G |
| RHI-3P8K-HVES-5G | RHI-3P10K-HVES-5G |

Datasheet

Model Name	RHI-3P5K-HVES-5G	RHI-3P6K-HVES-5G	RHI-3P8K-HVES-5G	RHI-3P10K-HVES-5G
Input DC (PV side)				
Recommended max. PV power	8 kW	9.6 kW	12.8 kW	16 kW
Max. input voltage	1000 V			
Rated voltage	600 V			
Start-up voltage	160 V			
MPPT voltage range	200-850 V			
Max. input current	13 A / 13 A		26 A / 13 A	26 A / 26 A
Max. short circuit current	19.5 A / 19.5 A		39 A / 19.5 A	39 A / 39 A
MPPT number/Max. input strings number	2/2		2/3	2/4
Battery				
Battery type	Li-ion			
Battery voltage range	160-600 V			
Max. charge / discharge power	5 kW	6 kW	8 kW	10 kW
Max. charge / discharge current	25 A			
Communication	CAN			
Output AC (Grid side)				
Rated output power	5 kW	6 kW	8 kW	10 kW
Max. apparent output power	5.5 kVA	6.6 kVA	8.8 kVA	10 kVA
Operation phase	3/N/PE			
Rated grid voltage	380 V / 400 V			
Rated grid frequency	50 Hz / 60 Hz			
Rated grid output current	7.6 A / 7.3 A	9.2 A / 8.7 A	12.2 A / 11.6 A	15.2 A / 14.5 A
Max. output current	8.4 A	10 A	13.4 A	16.7 A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)			
THDi	<2%			
Output AC (Back-up)				
Rated output power	5 kW	6 kW	8 kW	10 kW
Peak apparent output power	10 kVA, 60 sec	12 kVA, 60 sec	16 kVA, 60 sec	16 kVA, 60 sec
Back-up switch time	< 40 ms			
Rated output voltage	3/N/PE, 380 V / 400 V			
Rated frequency	50 Hz / 60 Hz			
Rated output current	7.6 A / 7.3 A	9.2 A / 8.7 A	12.2 A / 11.6 A	15.2 A / 14.5 A
THDv (@linear load)	<2%			
Efficiency				
Max. efficiency	98.4%			
EU efficiency	97.7%			
MPPT efficiency	99.9%			
Battery charge/discharge efficiency	97.5%			
Protection				
Anti-islanding protection	Yes			
Output over current protection	Yes			
Short circuit protection	Yes			
DC switch	Optional			
DC reverse-polarity protection	Yes			
PV over voltage protection	Yes			
Battery reverse protection	Yes			
General Data				
Dimensions (W*H*D)	535*455*185 mm			
Weight	25.1 kg			
Topology	Transformerless			
Standby consumption	<15 W			
Operating ambient temperature range	-25 ~ +60°C			
Relative humidity	0-100%			
Ingress protection	IP65			
Cooling concept	Natural convection			
Max. operation altitude	4000 m			
Grid connection standard	G98 or G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15/VFR:2019, RD 1699/RD 244 / UNE 206006 / UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, 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				
DC connection	MC4 connector			
AC connection	Quick connection plug			
Display	LCD			
Communication	RS485, Optional: Wi-Fi, GPRS			

S5-E01P(4-5)K-48

Solis Energy Storage Inverters



360 degree

Model:

S5-E01P4K-48 S5-E01P4K-48-P S5-E01P5K-48 S5-E01P5K-48-P

Flexible Communications

- ▶ Integrated LCD display
- ▶ Built-in bluetooth communication
- ▶ Remote control & firmware upgrade

Adaptive

- ▶ Compatible to grid or generator
- ▶ Configurable AC/solar input priority based on applications
- ▶ Parallel operation up to 10 units (50kW)
- ▶ Support 3 phase unbalanced parallel operation
- ▶ Intelligent EMS function

High Performance

- ▶ 80 Amp AC charger and 100 Amp solar charger
- ▶ Maximum PV input voltage up to 500VDC
- ▶ Built-in MPPT solar charge controller

Battery Friendly

- ▶ Compatible with all top-tier brands of lithium batteries and lead-acid batteries
- ▶ Battery equalization for increased battery performance and lifespan
- ▶ Functional with or without a battery
- ▶ One-click fast charging mode
- ▶ Manual wakeup the overdischarged battery to extend battery lifespan

Datasheet

Model Name	S5-E01P4K-48	S5-E01P4K-48-P	S5-E01P5K-48	S5-E01P5K-48-P
Parallel capability	NO	Yes, 10 units	NO	Yes, 10 units

Battery

Rated battery voltage	48 V
Battery type	Li-ion/ Lead-acid
Max. charge / discharge current	100 A
Communication	CAN/RS485

Inverter Output

Rated output power	4 kVA / 4 kW	5 kVA / 5 kW
Rated output voltage	230 V ± 1%	
Rated frequency	50 Hz / 60 Hz ± 0.1%	
Surge capacity	8 kVA	10 kVA
Output voltage waveform	Pure sine wave	
Transfer time	10 ms typical, 20 ms Max	
THDv (@linear load)	<3%	
Peak efficiency (PV-AC)	93% ~ 95%	

Solar Charger

Solar charger type	MPPT	
Recommended max. PV power	5 kW	5.5 kW
Max. input voltage	500 V	
MPPT voltage range	90-480 V	
MPPT number / Max. input strings number	1/2	
Max. solar charge current	100 A	

AC Charger

Rated input voltage	230 V	
Selectable voltage range	90-280 V	
AC frequency range	50 Hz / 60 Hz (Auto sensing)	
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

Standards

Safety standard	IEC 62109, IEC 61000-6-2/-3
-----------------	-----------------------------

General Data

Dimensions (W*H*D)	335*450*160 mm
Relative humidity	5% to 95% (Non-condensing)
Operating ambient temperature range	-10 ~ +25°C
Storage temperature range	-25 ~ +60°C
Ingress protection	IP21
Max. operation altitude	2000 m

Features

DC connection	Terminal connectors
AC connection	Terminal connectors
Display	LCD
Communication	CAN, BMS, RS485, Dry-contact, Bluetooth, Optional: Wi-Fi, GPRS

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

Solis Flexi-ONE



Solis Flexi-ONE Midi

S5-EH1P

3K / 3.6K / 4.6K / 5K / 6K

-L-UN

Solis Flexi-ONE Maxi

S5-EH1P

3K / 3.6K / 4.6K / 5K / 6K

-L-UN-EX

Solis Flexi-ONE Expansion Box

S5-EH-UN-EX



Uniquely Flexible

- ▶ Choose your own batteries from compatible manufacturers
- ▶ Quick installation
- ▶ Compatible battery capacity up to 20kW·h
- ▶ Built-in distribution block, removing inverter core without affecting backup loads



Intelligent Integration

- ▶ Integrated backup bypass switch
- ▶ Integrated AFCI
- ▶ Integrated PV, grid and battery switches
- ▶ Dual protection with fuse and isolator



High performance

- ▶ 20ms switching time between on-grid mode and off-grid mode
- ▶ Grid output power up to 6kW
- ▶ Charge/Discharge current up to 100A
- ▶ PV input power up to 8kW, PV input current up to 15A
- ▶ 5kW backup power to support more important loads
- ▶ AC input current up to 32A, support backup load running and battery charging at the same time



Multiple functions

- ▶ Integrated bluetooth supports APP commissioning
- ▶ Multiple working modes to maximize self-consumption
- ▶ Intelligent EMS function
- ▶ 24-hour energy management via SolisCloud
- ▶ Remote control & firmware upgrade

Datasheet

Model Name	S5-EH1P3K -L-UN	S5-EH1P3.6K -L-UN	S5-EH1P4.6K -L-UN	S5-EH1P5K -L-UN	S5-EH1P6K -L-UN	S5-EH1P3K -L-UN-EX	S5-EH1P3.6K -L-UN-EX	S5-EH1P4.6K -L-UN-EX	S5-EH1P5K -L-UN-EX	S5-EH1P6K -L-UN-EX
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Battery Compatibility (to be continued)

Nominal capacity range	2.4-12 kW-h					9.6-20 kW-h				
Pylontech US2000	1-3 pcs, 2.4 kW-h / 4.8 kW-h / 7.2 kW-h					4-6 pcs, 9.6 kW-h / 12 kW-h / 14.4 kW-h				
Pylontech US3000	1-2 pcs, 3.55 kW-h / 7.1 kW-h					3-4 pcs, 10.65 kW-h / 14.2 kW-h				
UZ energy L051100-A	1-2 pcs, 5.0 kW-h / 10 kW-h					3-4 pcs, 15.0 kW-h / 20 kW-h				
Dyness B4850	1-3 pcs, 2.4 kW-h / 4.8 kW-h / 7.2 kW-h					4-6 pcs, 9.6 kW-h / 12 kW-h / 14.4 kW-h				
LG Chem RESU 6.5	1 pcs, 6.5 kW-h					/				
LG Chem RESU 10	1 pcs, 10 kW-h					/				

Input DC (PV side)

Recommended max. PV power	4.8 kW	5.7 kW	8 kW			4.8 kW	5.7 kW	8 kW		
Max. input voltage						600 V				
Rated voltage						330 V				
Start-up voltage						120 V				
MPPT voltage range						90-520 V				
Max. input current						15 A / 15 A				
Max. short circuit current						22.5 A / 22.5 A				
MPPT number/Max. input strings number						2/2				

Battery Charging/Discharging

Battery voltage range	42-58 V									
Max. charge/discharge power	3 kW		5 kW			3 kW		5 kW		
Max. charge/discharge current	62.5 A		100 A			62.5 A		100 A		
Communication	CAN									

Output AC (Back-up)

Rated output power	3 kW	3.6 kW	5 kW			3 kW	3.6 kW	5 kW		
Max. apparent output power	4.5 kVA, 10 s	5.4 kVA, 10 s	7 kVA, 10 s			4.5 kVA, 10 s	5.4 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	13.7 A / 13.1 A	16.3 A / 15.7 A	22.8 A / 21.7 A			13.7 A / 13.1 A	16.3 A / 15.7 A	22.8 A / 21.7 A		
THDv (@linear load)	<2%									

Output AC (Grid side)

Rated output power	3 kW	3.6 kW	4.6 kW	5 kW	6 kW	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	3.3 kVA	4 kVA	4.6 kVA	5.5 kVA	6.6 kVA
Rated grid voltage	1/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 / 20.0 A	22.8 A / 21.7 A	27.3 A / 26.1 A	13.7 A / 13.1 A	16.4 A / 15.7 A	20.9 A / 20.0 A	22.8 A / 21.7 A	27.3 A / 26.1 A
Max. output current	15 A	18.2 A	21.0 A	25.0 A	27.3 A	15 A	18.2 A	21.0 A	25.0 A	27.3 A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)									
THDi	<2%									

General Data

Dimensions (H*W*D)	1146*691*375 mm					1786*691*375 mm				
Weight (without battery)	46 kg					58.3 kg				
Topology	High frequency isolation (for battery)									
Operating ambient temperature range	-20 ~ +60°C (INV), system based on battery specification									
Ingress protection	IP54									
Cooling concept	Intelligent redundant fan-cooling									
Max. operation altitude	3000 m									
Grid connection standard	AS/NZS 4777.2:2020									
Safety/EMC standard	IEC62109-1/-2, EN61000-6-2, EN61000-6-3									

Model Name	All series
Input AC (Grid side)	
Input voltage range	187-265 V
Max. input current	32 A
Frequency range	45-55 Hz / 55-65 Hz

Protection

Ground fault monitoring	Yes
Residual current monitoring	Yes
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾
DC reverse polarity protection	Yes
Protection class	CLASS I
Over voltage category	II (PV), III (MAINS)
Intelligent temperature protection	Yes

Model Name	All series
Efficiency	
Max. efficiency	97.5%
EU efficiency	96.8%
MPPT efficiency	>99.9%

Features

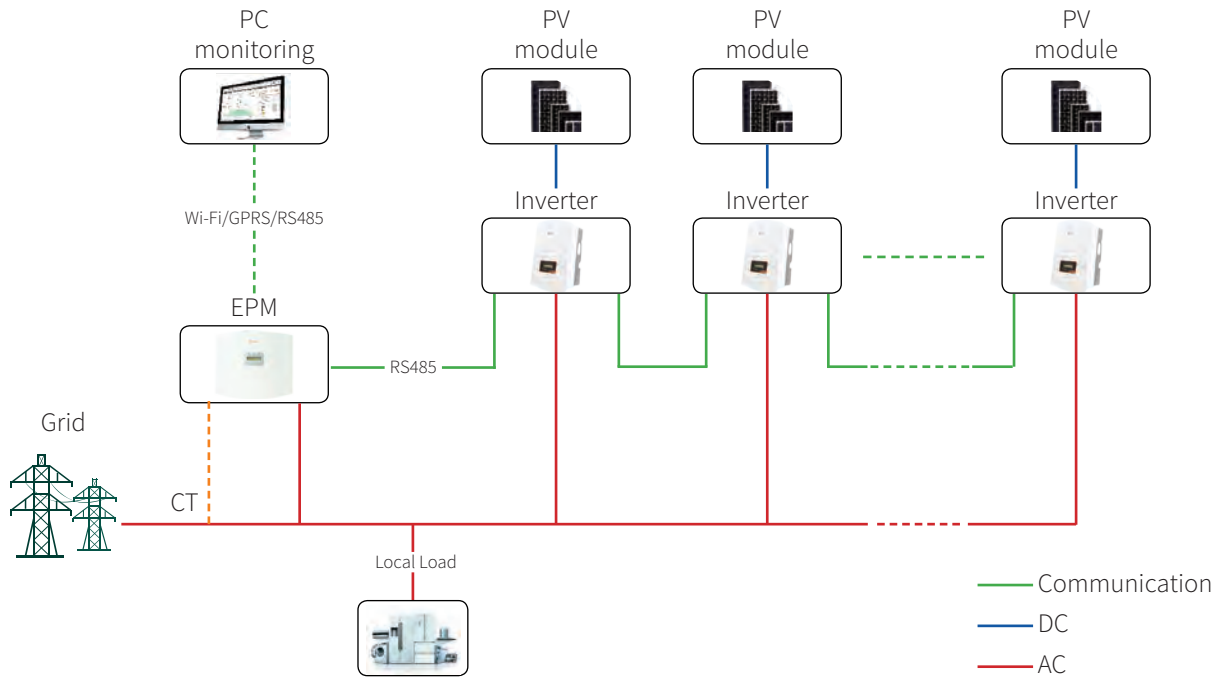
DC connection	MC4 connector
AC connection	Quick connection plug
Display	LED
Communication	COM, DRM, RS485, dry contact, Bluetooth (internal)

(1) Activation required.

Accessories

Solis Export Power Manager

Solis Export Power Manager



Smart & strong

- Simultaneous control of 80 X Solis inverters
- Realizing reactive compensation of the system, which ensure the power factor of the system is up to standard

Saving & high precision

- Simultaneously monitor the operating data of the 80 X Solis inverter, saving the cost of the monitoring system
- The control accuracy is up to 3%, 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

Datasheet

Model Name	Solis-EPM1-5G	Solis-EPM3-5G	Solis-EPM3-5G-PLUS
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Input AC

Rated voltage	230 V, 1/N/PE	400 V, 3/N/PE or 3/PE	400 V, 3/N/PE
Input voltage range	L to N: 100~277 V		L to L: 320~480 V
Input frequency range	45~65 Hz		

Communication

Inverter communication	Modbus RS485		
Communication interface	2pin RS485		2pin RS485, RJ45
Max. communication inverter numbers	10	10	80 ⁽¹⁾
Max. communication distance	1000 m		
Monitoring	DLB-W ⁽²⁾		DLB-W (Built in)

General Data

Ambient temperature	-25 ~ +60°C		
Relative humidity	5%~95%		
Ingress protection	IP65		
Self consumption	<5 W		<15 W
Dimensions (W*H*D)	364*276*114 mm		488*446*149 mm
Weight	2.1 kg		5.4 kg
AC connection	Quick connection terminal		
Display	LCD		
CT connection	Plug terminal		
CT specification	Optional (5 A) ⁽³⁾		

Features

Failsafe function	Yes
Remote upgraded	Yes ⁽²⁾
Control time	5 s
Power Accuracy	3%

CT specification

Specification	Dimensions (mm)			Hole size (mm)		Ratio
	W	H	D	a	e	
CT-30×20-100 A	90	114	40	22	32	100:5 A
CT-60×40-300 A	114	140	36	42	62	300:5 A
CT-80×40-600 A	122	162	40	42	82	600:5 A
CT-80×40-1000 A	122	162	40	42	82	1000:5 A
CT-160×80-2000 A	184	254	52	82	162	2000:5 A
CT-160×80-3000 A	184	254	52	82	162	3000:5 A

(1) The AC capacity of EPM system should not exceed 2MW.

(2) EPM dedicated version, Non-EPM-dedicated does not support remote upgrade.

(3) Due to different on-site installation conditions, Solis currently has optional specifications as shown in the above table. It is suggested that the client can choose the appropriate CT specifications according to the actual installation requirements.

Accessories

Solis Data Logging Device

Ginlong Monitoring System



RF-stick



RF Gateway

Simple and easy

- Plug and play, easy to operate

Stable

- Stable network connection, real-time data transmission

Smart

- No Wi-Fi configuration required, RF intelligent connection

Efficient

- Remote monitoring, allowing real-time monitoring of mobile APP and Web side

Datasheet

Device name	Solis-Link: RF-stick	Solis-Link: RF-Gateway
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Wireless parameters

Working Frequency	869.525 MHz	
Demodulation	FSK	
Data Rate	9.6 kbps	
Transmitting Power	+20 dBm	
Transmitting Frequency Offset	20 KHz	
Transmission Channel Bandwidth	<8 KHz	
Receiving Channel Bandwidth	200 KHz	
Sensitivity	-113 dBm@DR=10 kbps & FDEV =10 kHz	
Antenna Options	External RF antenna: rod antenna	Embedded RF Antenna:Bracket Antenna

Hardware parameters

Data Interface	RS 485	Adaptive 10 / 100 Mbps
Working Voltage	DC 5 V ~ DC 12 V	DC 5.0 V (+/-5%)
Max. Working Voltage	15 V	12 V
Working Power	1.5 W	1.5 W
Indicator Light	System running status--RUN Light	System running status--RUN
	Inverter Connection Status--COM Light	Server Connection Status---SER
	RF Connection Status--RF Light	RF Connection Status--RF
Data Storage	8 MBYTE FLASH	
Working Temperature	-30 ~ +70°C	
Working Humidity	< 90% (No Condensation)	
Storage Temperature	-45 ~ +90°C	
Storage Humidity	< 40%	
External Interface	Aeronautical Head 4 PIN Interface (Anti reverse)	Micro USB Interface & RJ45 Mesh Port

Software parameters

Number of connected inverters	1	/
Serial Communication Rate	5 mins, 1-15 mins adjustable	/
	9600 bps, (1200 - 57600 bps adjustable)	/
Data Transmission Interval	AT+Instruction Set	/
Configuration	RF Gateway Command	Local Static Web Page
	RF Gateway Control	Remote Server
Firmware Upgrade	Local Port Upgrade	Remote Upgrade
		Local Static Web Page
Others	Real-time Control, Data Resuming	/
Link Requirement	/	CAT5 shielded network cable length <50 m
Network Switching Layer	/	≤ 4

General Data

Dimension (L*W*H)	47*41*160 mm	90*23*90 mm
Weight	130 g	80 g
Protection class	IP 65	IP 21

Standard

Certification	CE	CE
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Accessories

Solis Data Logging Stick

Ginlong Monitoring System



Data Logging Stick



Data Logging Stick
Wi-Fi



Data Logging Stick
LAN



Data Logging Stick
GPRS

Data Logging Stick: Wi-Fi

- Quick installation and easy operation enabling local and remote monitoring
- Mobile APP installation for Android and IOS
- Flexible outdoor rated Wi-Fi connection

Data Logging Stick: LAN

- Quick installation and easy operation
- Plug and play functionality
- Stable and reliable LAN connection

Data Logging Stick: GPRS

- Quick installation and easy operation
- Connecting inverters with 'plug and play' function
- Easy visualization of data and other information via mobile device
- GPRS communication enabling mobile monitoring anytime anywhere

Datasheet

Model Name	DLS-W(Wi-Fi)	DLS-L(LAN)	DLS-G(GPRS)
Max. number of inverters	1		
Inverter communication	4pin		
Remote communication	Wi-Fi (802.11 b/g/n)	Ethernet 10/100 Mbps	GPRS Class 12
Communication rate	9600 bps (adjustable:1200-57600 bps)		
Frequency	2.412 GHz-2.484 GHz	/	850/900/1800/1900 MHz
Wi-Fi communication range	100m in outdoor open area without obstruction	/	/
LAN communication range	/	50m (CAT-5e Shielded Twisted Pair)	/
Wi-Fi transmitting power	802.11b: +20dBm (Max) 802.11g: +18dBm (Max) 802.11n: +15dBm (Max) Configurable by users	/	/
Wi-Fi receiving sensitivity	802.11b: -89dBm 802.11g: -81dBm 802.11n: -71dBm	/	/
GPRS Mobile Station	/	/	ClassC
Compatible with the GSM Phase 2/2 +	/	/	Class 4 (2W@850/900MHz) Class 1 (1W@1800/1900MHz)
External antenna	I-PEX antenna	/	I-PEX antenna
Data collection intervals	5 minutes (adjustable: 1-20 minutes)		
Data interface	RS485		
Preferences setting	Web Server		
Firmware updates	Wireless	Ethernet	Wireless
Data access	Wi-Fi point-to-point/Remote server	Remote server	
Data storage	8MBYTE FLASH		

Electrical

Input voltage	DC 5V	DC 5V (+/-5%)	DC 5V (+/-5%)
Working current	200-300 mA	110-200 mA	160-500 mA
Static power consumption	/	/	<2 W
Max. instantaneous power consumption	/	/	<8 W

Environmental

Operating temperature	-10 ~ +85°C		
Operating humidity	10%-90% Relative humidity, no condensa		
Storage temperature	-40 ~ +125°C		
Storage humidity	<40%		
Protection class	IP65		

General Data

Dimensions (L*W*H)	118*43*43 mm	105*43*43 mm	118*43*43 mm
Weight	56 g		

Other

Certificates	FCC, CE		
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Accessories

Solis Data Logging Box

Ginlong Monitoring System



Data Logging Box
DLB

Data Logging Box: Wi-Fi

- Quick installation and easy operation
- Monitor your system and data anytime via Wi-Fi
- Easy visualization of data and other information via Internet
- Comprehensive analysis in the event of a fault

Data Logging Box: GPRS

- Quick installation and easy operation
- GPRS communication supporting remote monitoring
- Multi-functional protections keeping your system from faults
- Keeping users informed of status and data via mobile device

Datasheet

Model Name	DLB-W(Wi-Fi)	DLB-G(GPRS)
Max. number of inverters	10	
Inverter communication	RS485	
Remote communication	Wi-Fi (802.11 b/g/n)	GPRS
Max. communication range	<1 km	
Communication rate	9600bps (adjustable:1200-57600 bps)	
Wi-Fi frequency	2.4 GHz	850/900/1800/1900 MHz
Wi-Fi communication range	300m in outdoor open area without obstruction	/
Wi-Fi transmitting power	802.11b/g/n: +20dBm/+18dBm/15dBm (Max)	Class 4 (2W) / Class 1 (1W)
Data collection intervals	5 minutes (adjustable:1-20 minutes)	
Preferences setting	Web server/Serial AT instruction	Serial AT instruction
Firmware updates	Serial/Wireless	
Data access	Serial/Wi-Fi point-to-point/Remote server	Serial/Remote server
Status display	4 LEDs	

Electrical

Input voltage	DC 5V	
Static power consumption	<1.6 W	<2 W
Max. instantaneous power consumption	<2.5 W	<8 W

Environmental

Operating temperature	-10 ~ +65°C	
Operating humidity	10%-90% Relative humidity, no condensa	
Storage temperature	-40 ~ +65°C	
Storage humidity	<40%	
Protection class	IP21	

General Data

Dimensions (L*W*H)	110*86*26 mm	
Weight	108 g	102 g

Other

Certificates	FCC, CE, RoHS	
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SolisCloud

New generation Solis PV monitoring platform

SolisCloud is the new generation of intelligent PV system monitoring. This new monitoring platform will empower you like never before. You will have full control of your system whenever and wherever you are. You will benefit from upgraded accurate fault alarm messaging that is adjustable to notify you within hours that fit meet your needs. For simple O&M the new platform features a full size display of all your installations with real-time data. You will have an intelligent alarm system that gives recommendations to quickly repair your field faults. In depth analysis tools allow you to understand the overall health of your system. IV curve scanning can be done easily and quickly on your whole system. A live power flow display gives visibility of both standard solar systems as well as storage systems. Most importantly you will have complete control of your systems and be able to monitor and adapt anything when and how you want.



SolisCloud Monitoring APP

Search for "Solis"

FOLLOW US

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

Web: www.soliscloud.com



Advanced Cloud Platform

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



Efficient O & M

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



Multiple Plant Management

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



Full Screen Display Mode

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

Case study



Mexico City, Mexico 20MW



ABP Ipswich, UK 1MW



Lincolnshire, UK 140kW



JTC Solar Farm, Singapore 5MW



Lumax Industries Ltd, India 750kW



Georgia-Boviet Woodland, U.S.A 1.6MW



Monash, Australia 1MW



MG, Brasil 350kW



Punjab, India 150kW



Russia 4.2kW



Igrejinha, Brazil 6kW



SolWorx Project, Namibia 272kW



Soleos Energy Project, India 2MW



Police Training Project, India 450kW



Teheran, Iran 50kW



Urussanga city Santa Catarina, Brazil 200kW



RSWM, India 3.6MW



Latur Maharashtra, India 2.8MW



Adel Vokes Road, Australia 65.85kW



Grundfos Rooftop, UK 123.4kW



Carport project, India 6.2MW



SP, Brasil 150kW



Västra Götaland, Sweden 43.31kW



PE, Brasil 5MW



Tetra Pak Project, India 1MW



Valinhos, Brazil 5kW



Brazil 2kW



Jamaica 20kW



Costa Rica 47kW



USA 16kW



Kansas, U.S.A 25kW



California, U.S.A 15kW



UK 4.4kW



Zhejiang Ningbo Tidal Flat Project 300MW



Inner Mongolia Khobqi Desert 20MW



Zhejiang Hangbu Agricultural-photovoltaic hybrid PV plant 30MW



Hubei Guanyin Agricultural-photovoltaic hybrid PV plant 20MW



Zhejiang Jinyun Beitai 21MW



Zhejiang Quzhou Agricultural-photovoltaic hybrid PV plant 20MW



Hebei Zhangbei Agricultural-photovoltaic hybrid PV plant 50MW



Shanghai Volkswagen Photovoltaic solar carport 55MW

Installed On the Eiffel Tower



Contact Us

HQ

📍 No.57 Jintong Road, Binhai Industrial Park, Xiangshan, Ningbo, Zhejiang, 315712, China

☎ +86 574 6580 2188 ✉ sales@ginlong.com

UK (EU Service Center)

📍 1 Church Street Bootle Liverpool, L20 1AF, UK

☎ +44 113 328 0870 ✉ europesales@solisinverters.com
euservice@solisinverters.com

U.S.A

📍 565 Metro Pl. S. Suite 3214, Dublin OH 43017 USA

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

India

📍 104, wing -A, 1st floor, Techno1 City Premises Plot no. X-4/1 Mahape Navi Mumbai- 400710, India

☎ +91 224 9744 251 (sales) ✉ Indiasales@ginlong.com
+91 224 9744 021 (service) inservice@solisinverters.com

Spain

📍 Calle de Serrano, 240 - 1ª planta 28016 Madrid - Spain

☎ +34 914 430 810 ✉ europesales@solisinverters.com
spservice@solisinverters.com

Korea

📍 #A-1301, Smart Valley, 30, Songdomirae-ro, Yeonsu-gu, Incheon, Korea

☎ +82 32 822 2188 ✉ sales@ginlong.com

Myanmar

📍 No 10, Sagwar Pin Street, Kyimyindaing, Yangon City

☎ +95 94 302 3335 ✉ sales@ginlong.com

Sweden

📍 Åkersberga, Sweden

☎ +46 (0)725 344987 ✉ europesales@solisinverters.com

Romania

📍 Brasov, Romania

☎ +40 757 037 864 ✉ europesales@solisinverters.com

Brazil

📍 Sala 618, R. Paulo César Fidélis, 39 - Lot. Res. Vila Bella, Campinas - SP, Brasil, 13087-727

☎ +55 19 996133803 ✉ sales@ginlong.com

Netherlands

📍 Nokweg 3-B, 2451 AL Leimuiden, Nederland

☎ +31 85 048 1300 ✉ benelux@solisinverters.com
nlservice@solisinverters.com

Australia

📍 No. 5 / 109 Tulip Street, Cheltenham, Vic. 3192 Australia

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

South Africa

📍 Ground Floor, Building 4 Quadrum Office Park 50 Constantia Boulevard, Constantia Kloof Ext. 23, Johannesburg, South Africa

☎ +27 11 534 8461 ✉ sales@ginlong.com
saservice@solisinverters.com

Vietnam

📍 43/6 quốc lộ 1A, ấp đông lân 1, ba diêm, hóc môn, TP HCM

☎ +84 098 316 8126 (sales) ✉ sales@ginlong.com
+84 090 495 1267 (service)

Philippines

📍 12-2C, Cambridge Village Condominium, BLK 19 Kabisig Road, San Andre's Floodway, Cainta Rizal, 1900

☎ +63 0917 5380285 ✉ sales@ginlong.com

Germany

📍 Bad Pyrmont, Germany

☎ +49 (0)151 25 222 228 ✉ europesales@solisinverters.com
deservice@solisinverters.com

Turkey

📍 Istanbul, Turkey

☎ +90 545 651 3541 ✉ europesales@solisinverters.com

Mexico

📍 Monterrey, Mexico

☎ +52 811 500 2841 ✉ sales@ginlong.com