



**S6-GR1P(2.5-6)K**

Made by Ginlong Technologies

**01**

**Company Profile**

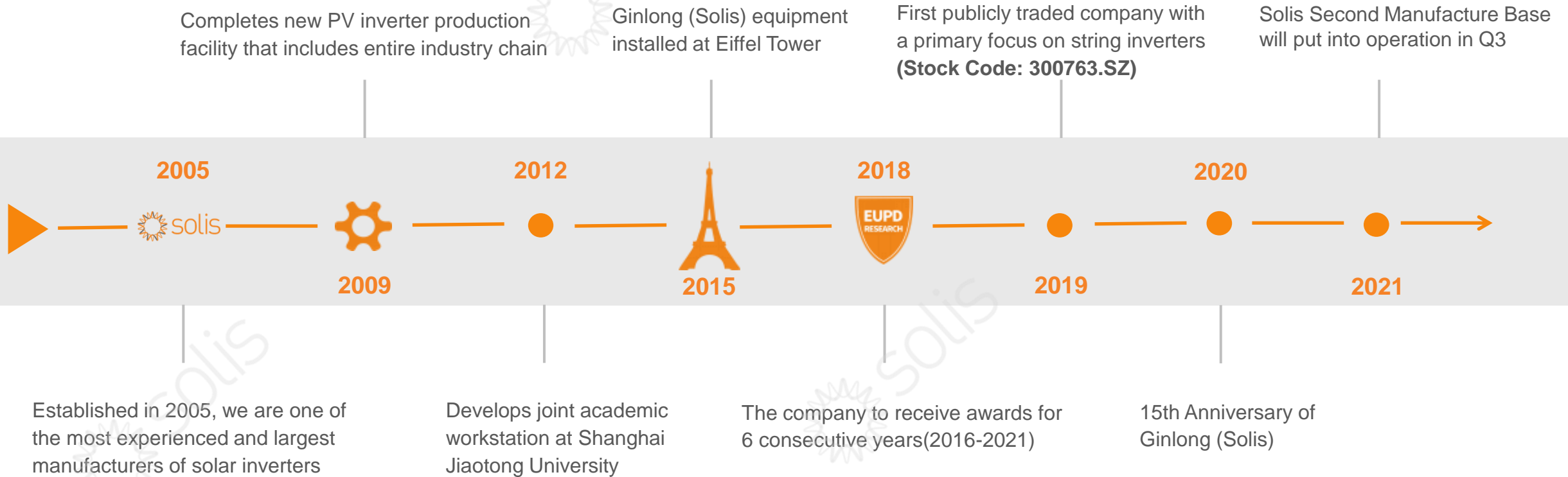
**02**

**Product Introduction**

**03**

**Solis Reliability**

## ▶▶▶ Focused solely on string inverters for over 15 years



**\$454<sub>M+</sub>**

Total Assets

**2000+**

Global Employees

**300+**

Engineers


Established in 2005, Ginlong (Solis) Technologies (Stock Code: 300763.SZ) is one of the most experienced and largest manufacturers of PV string inverters. Presented under the Solis brand, the company's portfolio consists of innovative string inverter technology with first-class proven reliability in the field and 3rd-party validation.

▶▶▶ Our financial and manufacturing strength is widely recognized among leading financial institutions:



Bank of America  
MOSAIC  
LOANPAL  
JPMORGAN CHASE & CO.

Listed by leading US banks and financial institutions including BoA, JP Morgan Chase, Mosaic, Sungage Financial, Dividend, Sunlight Financial, etc..



**TOP 3**

Endorsed by BloombergNEF as a top 3 bankable Asian inverter brand



**83 %**  
2020  
**Revenue**

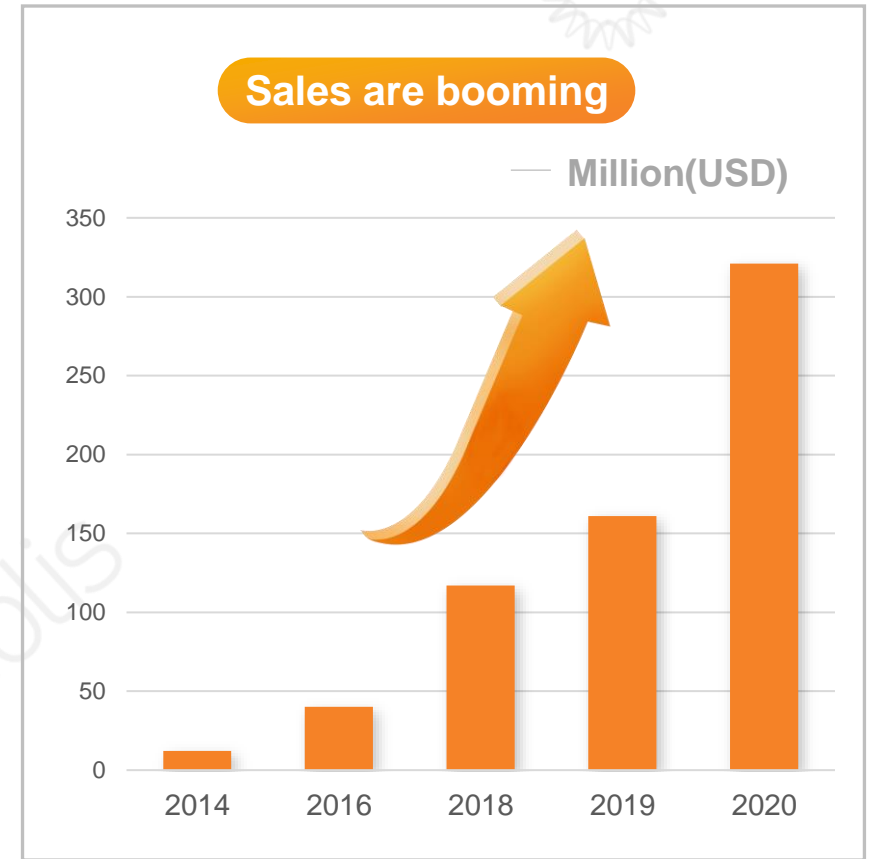
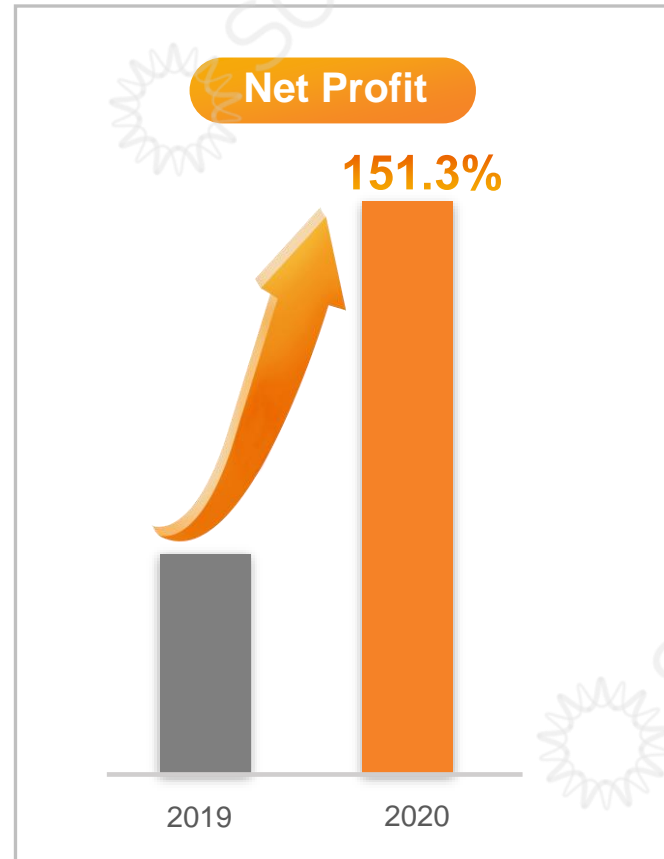
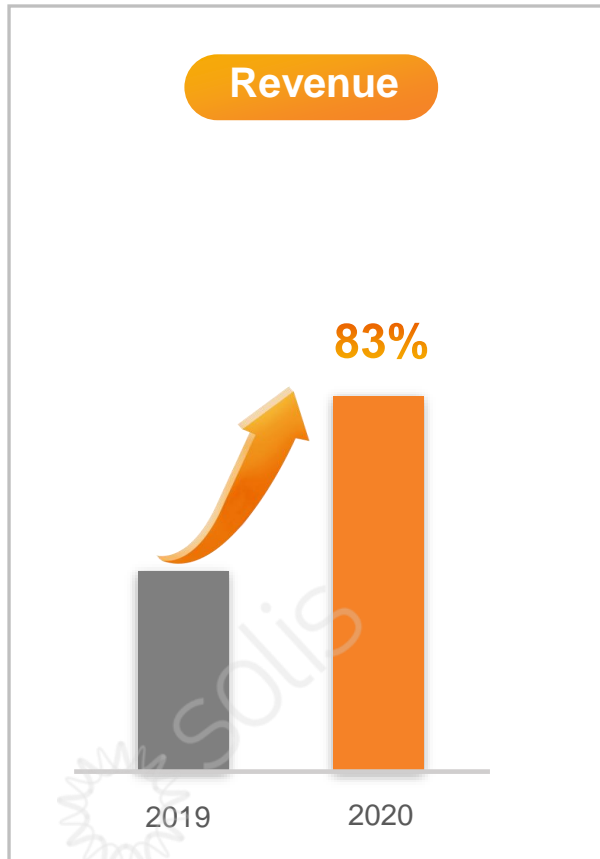
Strong financials with total assets at \$454 million (USD) with no bank debt



**20 GW**

Leaders in string inverter technology reach 20GW global shipments milestone

▶▶▶ 2020 reported operating income was US\$454 million, an increase of 82.98% year-on-year.



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# Solis Single Phase Inverter



## 2.5K/3K/3.6K/4K/4.6K/5K/6K

Single phase string inverter, very high efficiency, suitable for the installation of residential, or commercial systems, featuring dual MPPT on an ultra-thin single four-layer pc board design, which allows the product to be lightweight and very user friendly installation.

### Features

- Leading 97.7% Max. efficiency
- **Integrated AFCI (DC arc-fault circuit protection)**
- **Maximum string input current 14A**
- Dual MPPT design with ultra precise MPPT algorithm
- Export Power Management integrated (EPM)
- Small footprint compact and lightweight
- Easy installer friendly commissioning



360° View

**EPM**

Export power manager



WiFi  
Real time monitoring



Weight  
11.5 kg



App Store  
IOS/Android

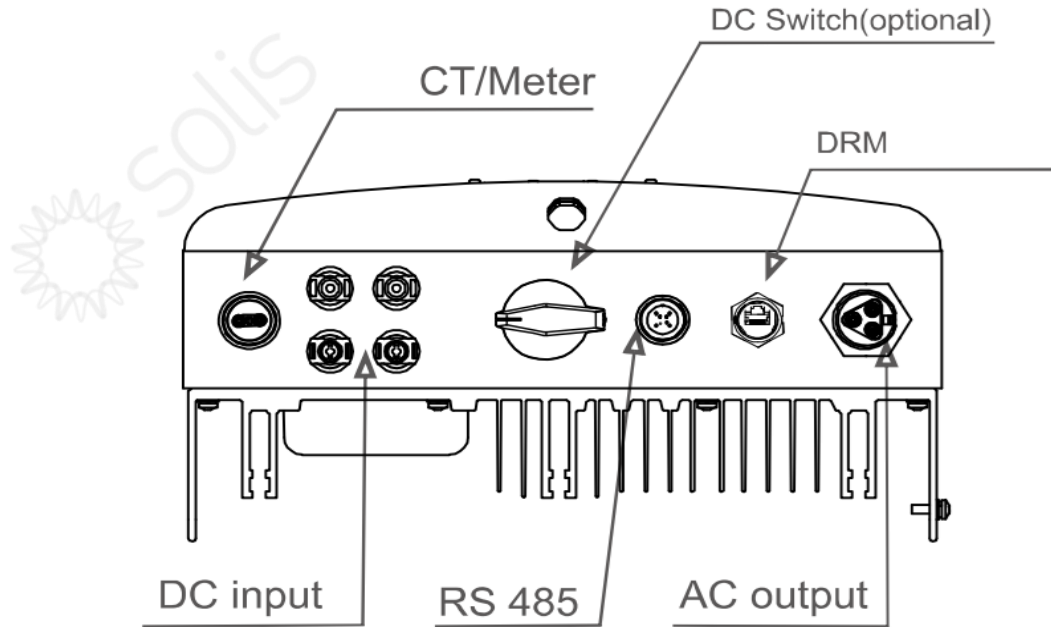


IP66  
Ingress protection



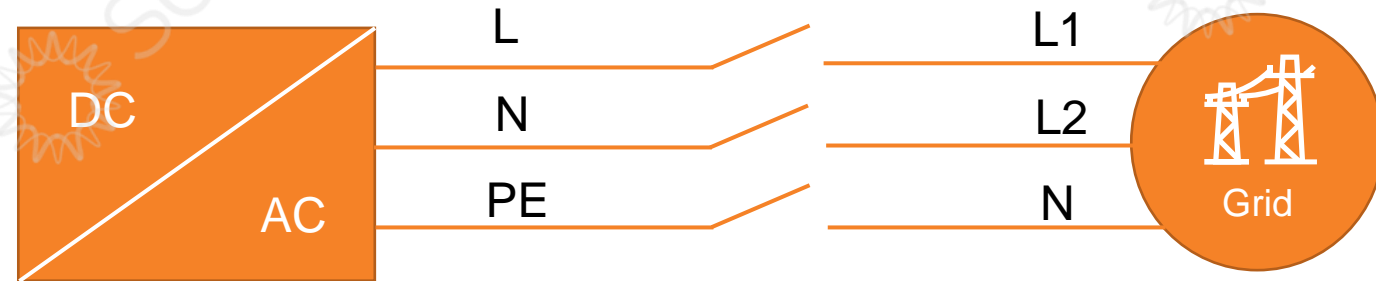


- Single phase string inverter
- Capacity 2500 – 6000W
- Easy to read, programmable LCD screen
- Dual MPPT including 2x DC inputs
- Suitable for single phase L-N and Split phase L-L voltage 220/230V
- The standard for residential PV system
- Maximum string input current 14A, support Bi-facial modules and high power modules
- Export Power Management integrated control function for Zero Feed-In Requirements
- Firmware can also be upgraded to meet latest grid requirements either via external upgrade stick or via remote monitoring



## Optional DC switch

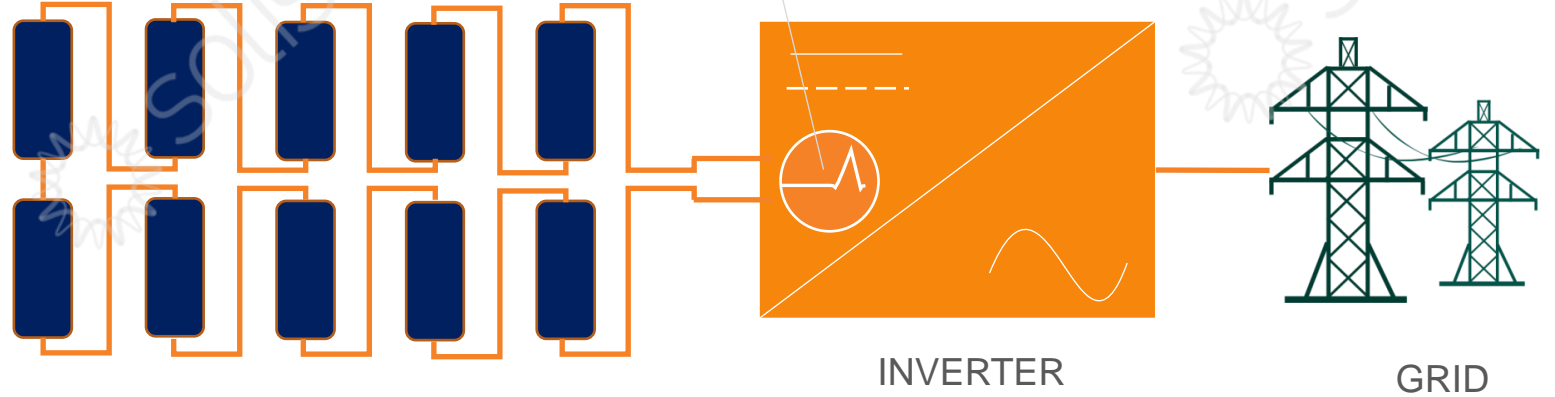
- 1\* 4-pin RS485 port for monitoring stick or upgrade stick
- 1\* CT port for Internal export power control function
- 1\* DRM port (Demand response management)



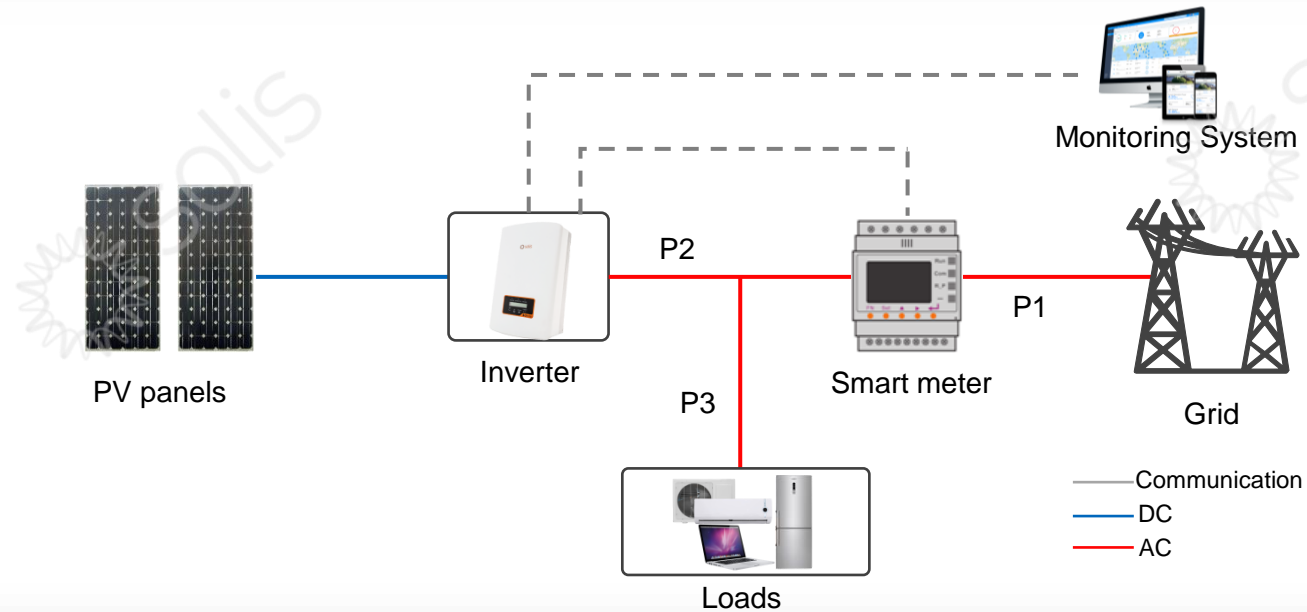
Solis inverter adapts to the split-phase grid with 208/220/240V (L-L) voltage



Build-in AFCI function



- Secure System Safety
- Lower Upfront and Maintenance Cost
- Regulation Compliance



EPM Export Power Management options control function

Use a **CT** or smart meter to measure the power flow at the system output. Dynamically control the inverter output power to ensure a certain power is exported to the grid (grid for zero feed-in).

## 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*
Integrated DC switch	Optional

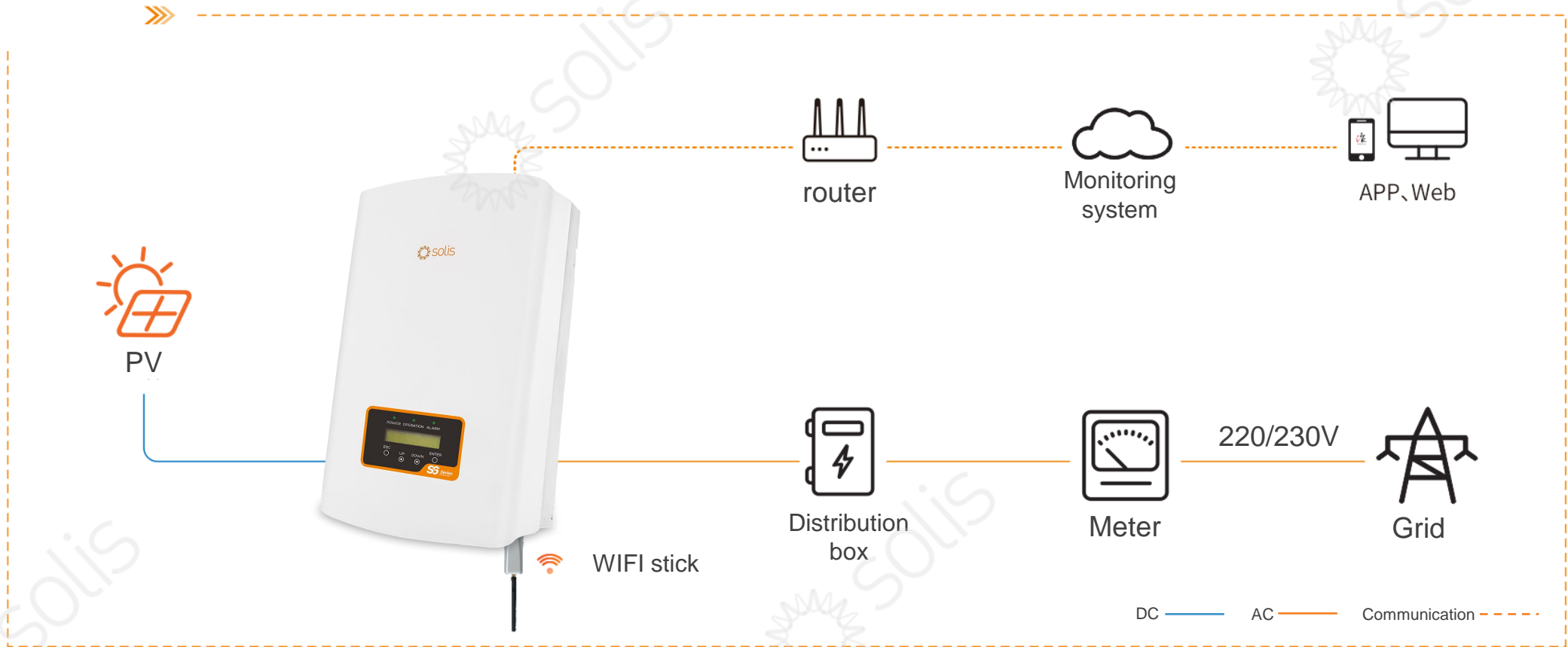
### General Data

Dimensions (W*H*D)	310*543*160 mm
Weight	11.5 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	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, IEC/EN 61000-6-2/-3

### Features

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

# Solis Residential PV Solution



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**Solis Reliability**



## Global certification



< .2%

Less than 0.2% failure rates reported in the independent DNV-GL reliability audit



DNV-GL

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



The company to receive awards for 6 consecutive years

**TÜVRheinland®**  
Precisely Right.

2019 Awarded PV Inverter for Commercial Use (20kW)

2020 Awarded PV Inverter for Commercial Use (50kW)



# Manufacturing Reliability



Surface Mounted Technology Workshop



Feeder



Printed Circuit Board Coating Room



Assembly Line



Automated Optical Inspection



Surface Mounted Technology Machine



Solder Paste Inspection



Spraying Machine



Automated Test Equipment



nichicon

NCC株式会社



wieland

ZETTLER



santon

OMRON

Panasonic



AVAGO TECHNOLOGIES

NXP

TOSHIBA



ON Semiconductor®



VACUUMSCHMELZE

SiTime™

CREE



Littelfuse®

**Germany:** Infineon IGBT

**USA:** Zettler LCD

**Japan:** Panasonic Connectors

- 100% of inverters produced are tested before shipment
- All inverters today and in the future will have a display
- We only use genuine MC4 connectors (Staubli)



**DNV-GL**

The inverter life models presented are positively impacted by the long and impressive track record of PV inverters designed and manufactured by Ginlong. The useful life projections are at or near the top of the string inverter life projections.

— **DNV-GL**



## BloombergNEF

Most Bankable Asian Inverter

— **BloombergNEF**



I Sustainable Management

The company to receive awards for 6 consecutive years

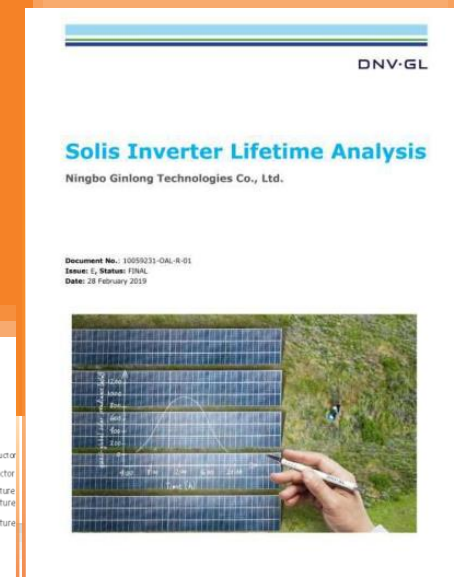
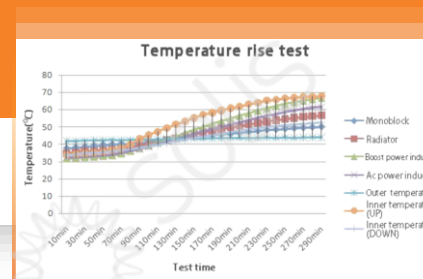
— **EUPD**

# 25+ years

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Source DNV-GL



# THANKS

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