

EU Declaration of Conformity – CE

This is to declare that the products listed below have been manufactured according to the following EU directives:

- **Low Voltage Directive 2014/35/EU**
- **Electromagnetic Compatibility 2014/30/EU**
- **2011/65/EU RoHS Directive**

Manufacturer	Ginlong (Solis) Technologies Co., Ltd.
Address	NO.57 Jintong Road, Binhai Industrial Park, Xiangshan Ningbo, Zhejiang, 315712, China
Product Type	Grid-connected PV Inverter
Model	Solis-1P2.5K-4G, Solis-1P3K-4G, Solis-1P3.6K-4G, Solis-1P4K-4G, Solis-1P4.6K-4G, Solis-1P5K-4G, Solis-1P6K-4G, S5-GR1P2.5K, S5-GR1P3K, S5-GR1P3.6K, S5-GR1P4K, S5-GR1P4.6K, S5-GR1P5K, S5-GR1P6K, S6-GR1P2.5K, S6-GR1P3K, S6-GR1P3.6K, S6-GR1P4K, S6-GR1P4.6K, S6-GR1P5K, S6-GR1P6K

The following standards have been applied according to the aforementioned directives:

Low Voltage Directive 2014/35/EU

EN 62109-1:2010, EN 62109-2:2011

Electromagnetic Compatibility 2014/30/EU

EN 55011:2016

EN 61000-6-1:2019, EN 61000-6-2:2019, EN 61000-6-3:2007/A1:2011, EN 61000-6-4:2019

IEC 61000-3-12:2011, IEC 61000-3-11:2000, IEC 61000-3-2:2018+A1, IEC 61000-3-3:2013+A1+A2

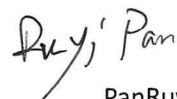
RoHS Directive 2011/65/EU

EN 63000:2018

All modifications to this declaration will be confirmed by Ginlong, otherwise this declaration will no longer be valid. The product defined here-in was manufactured under the condition of the EU directive and standards. Product responsibility is within the manufacturer's guarantee and this declaration of conformity is issued under the responsibility of the manufacturer.

Ningbo, 2.Nov.2021

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



PanRuyi

Certification Supervisor

CERTIFICATE of Conformity



Registration No.: A3 50556672 0001

Report No.: 50330358 006

Holder: Ginlong technologies Co., Ltd.
No.57 Jintong Road, Binhai,
(seafront), Industrial Park,
Xiangshan Ningbo
315712 Zhejiang
P.R. China

Product: PV-Inverter
(Grid-connected PV Inverter)

Identification:

Type Designation	: Solis-1PxxK-4G	S5-GR1PxxK	S6-GR1PxxK
	(xx=2.5, 3, 3.6, 4, 4.6, 5, 6)		
Serial Number	: Engineering Samples		
Firmware version	: A1		
Remarks	: The grid feeding power shall be limited per local regulation. See test report 50330358 006 for details.		

Tested acc. to: EN 50549-1:2019

The certificate of conformity refers to the above mentioned product. This is to certify that the specimen is in conformity with the assessment requirement mentioned above. This certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity.

Durch die DAkkS nach
DIN EN ISO/IEC 17065:2013
akkreditierte Zertifizierungsstelle.
Die Akkreditierung gilt nur für den in der
Urkundenanlage D-ZE-14169-01-02
aufgeführten Akkreditierungsumfang.

Certification Body

Date 26.08.2022

Weichun Li

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

Certificate No.: A3 50556672 0001

Certificate Of Conformity

Manufacturer: Ginlong technologies Co., Ltd.
No. 57 Jintong Road, Binhai, (seafront) Industrial Park, Xiangshan, Ningbo,
315712 Zhejiang, P.R. China

Type of product: Grid-Connected PV Inverter

Model: Solis-1PxxK-4G, S5-GR1PxxK, S6-GR1PxxK
(xx=2.5, 3, 3.6, 4, 4.6, 5, 6)

Firmware version: A1

Standard: EN 50549-1 : 2019

Report No.: 50330358 006

Date of issue: 26.08.2022

The verification of conformity refers to the above mentioned product. This is to verify that the specimen is in conformity with the assessment requirement mentioned above. This verification does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity.


Weichun Li
Certifier





Product Service

Attestation of Conformity

No. N8A 086470 0020 Rev. 06

Holder of Certificate: **Ginlong Technologies Co., Ltd.**

No.57 Jintong Road
Binhai Industrial Park, Xiangshan
315712 Ningbo, Zhejiang
PEOPLE'S REPUBLIC OF CHINA

Product: **Converter**
PV Grid-Tied Inverter

This Attestation of Conformity is issued on a voluntary basis according to the Low Voltage Directive 2014/35/EU relating to electrical equipment designed for use within certain voltage limits. It confirms that the listed equipment complies with the principal protection requirements of the directive and is based on the technical specifications applicable at the time of issuance. It refers only to the particular sample submitted for testing and certification. For details see: www.tuvsud.com/ps-cert

Test report no.: 704091623704-06

Date, 2022-07-13

(Zhengdong Ma)

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After preparation of the necessary technical documentation as well as the EU declaration of conformity the required CE marking can be affixed on the product. The declaration of conformity is issued under the sole responsibility of the manufacturer. Other relevant EU-directives have to be observed.



Product Service

Attestation of Conformity

No. N8A 086470 0020 Rev. 06

Model(s):

Solis-1P2.5K-4G, Solis-1P3K-4G, Solis-1P3.6K-4G, Solis-1P4K-4G, Solis-1P4.6K-4G, Solis-1P5K-4G-MX, Solis-1P5K-4G, Solis-1P6K-4G

Solis-1P2.5K-4G-C, Solis-1P3K-4G-C, Solis-1P3.6K-4G-C, Solis-1P4K-4G-C, Solis-1P4.6K-4G-C, Solis-1P5K-4G-MX-C, Solis-1P5K-4G-C, Solis-1P6K-4G-C

S5-GR1P2.5K, S5-GR1P3K, S5-GR1P3.6K, S5-GR1P4K, S5-GR1P4.6K, S5-GR1P5K, S5-GR1P6K

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

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

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

Parameters:

Models	Solis-1P2.5K-4G Solis-1P2.5K-4G-C	Solis-1P3K-4G Solis-1P3K-4G-C	Solis-1P3.6K-4G Solis-1P3.6K-4G-C	Solis-1P4K-4G Solis-1P4K-4G-C
PV input ratings:				
Max. input voltage:	550Vd.c.	600Vd.c.	600Vd.c.	600Vd.c.
MPP voltage range:	50-450Vd.c.	90-520Vd.c.	90-520Vd.c.	90-520Vd.c.
Max. input current:	2 x 11Ad.c.	2 x 11Ad.c.	2 x 11Ad.c.	2 x 11Ad.c.
Isc PV (absolute maximum):	2 x 17.2Ad.c.	2 x 17.2Ad.c.	2 x 17.2Ad.c.	2 x 17.2Ad.c.
AC output ratings:				
Rated grid voltage:	1/N/PE 220/230Va.c.	1/N/PE 220/230Va.c.	1/N/PE 220/230Va.c.	1/N/PE 220/230Va.c.
Rated grid frequency:	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Rated output power:	2500W	3000W	3600W	4000W
Max. AC output active power:	2800W	3300W	4000W	4400W
Max. AC output apparent power:	2800VA	3300VA	4000VA	4400VA
Max. continuous output current:	13.3Aa.c.	15.7Aa.c.	16Aa.c.	21Aa.c.

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After preparation of the necessary technical documentation as well as the EU declaration of conformity the required CE marking can be affixed on the product. The declaration of conformity is issued under the sole responsibility of the manufacturer. Other relevant EU-directives have to be observed.



Product Service

Attestation of Conformity

No. N8A 086470 0020 Rev. 06

Models	Solis-1P4.6K-4G Solis-1P4.6K-4G-C	Solis-1P5K-4G Solis-1P5K-4G-C	Solis-1P5K-4G-MX Solis-1P5K-4G-MX-C	Solis-1P6K-4G Solis-1P6K-4G-C
PV input ratings:				
Max. input voltage:	600Vd.c.	600Vd.c.	600Vd.c.	600Vd.c.
MPP voltage range:	90-520Vd.c.	90-520Vd.c.	90-520Vd.c.	90-520Vd.c.
Max. input current:	2 x 11Ad.c.	2 x 11Ad.c.	2 x 11Ad.c.	2 x 11Ad.c.
Isc PV (absolute maximum):	2 x 17.2Ad.c.	2 x 17.2Ad.c.	2 x 17.2Ad.c.	2 x 17.2Ad.c.
AC output ratings:				
Rated grid voltage:	1/N/PE 220/230Va.c.	1/N/PE 220/230Va.c.	1/N/PE 220/230Va.c.	1/N/PE 220/230Va.c.
Rated grid frequency:	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Rated output power:	4600W	5000W	4999W	6000W
Max. AC output active power:	5000W	5000W	4999W	6000W
Max. AC output apparent power:	5000VA	5000VA	4999VA	6000VA
Max. continuous output current:	23.8Aa.c.	25Aa.c.	21.7Aa.c.	27.3Aa.c.

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After preparation of the necessary technical documentation as well as the EU declaration of conformity the required CE marking can be affixed on the product. The declaration of conformity is issued under the sole responsibility of the manufacturer. Other relevant EU-directives have to be observed.



Product Service

Attestation of Conformity

No. N8A 086470 0020 Rev. 06

Models	S5-GR1P2.5K S6-GR1P2.5K S6-GR1P2.5K-R S6-GR1P2.5K-B	S5-GR1P3K S6-GR1P3K S6-GR1P3K-R S6-GR1P3K-B	S5-GR1P3.6K S6-GR1P3.6K S6-GR1P3.6K-R S6-GR1P3.6K-B	S5-GR1P4K S6-GR1P4K S6-GR1P4K-R S6-GR1P4K-B
PV input ratings:				
Max. input voltage:	550Vd.c.	600Vd.c.	600Vd.c.	600Vd.c.
MPP voltage range:	50-450Vd.c.	90-520Vd.c.	90-520Vd.c.	90-520Vd.c.
Max. input current:	2 x 14Ad.c.	2 x 14Ad.c.	2 x 14Ad.c.	2 x 14Ad.c.
Isc PV (absolute maximum):	2 x 22Ad.c.	2 x 22Ad.c.	2 x 22Ad.c.	2 x 22Ad.c.
AC output ratings:				
Rated grid voltage:	1/N/PE 220/230Va.c.	1/N/PE 220/230Va.c.	1/N/PE 220/230Va.c.	1/N/PE 220/230Va.c.
Rated grid frequency:	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Rated output power:	2500W	3000W	3600W	4000W
Max. AC output active power:	2800W	3300W	4000W	4400W
Max. AC output apparent power:	2800VA	3300VA	4000VA	4400VA
Max. continuous output current:	13.3Aa.c.	15.7Aa.c.	16Aa.c.	21Aa.c.

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After preparation of the necessary technical documentation as well as the EU declaration of conformity the required CE marking can be affixed on the product. The declaration of conformity is issued under the sole responsibility of the manufacturer. Other relevant EU-directives have to be observed.



Product Service

Attestation of Conformity

No. N8A 086470 0020 Rev. 06

Models	S5-GR1P4.6K S6-GR1P4.6K S6-GR1P4.6K-R S6-GR1P4.6K-B	S5-GR1P5K S6-GR1P5K S6-GR1P5K-R S6-GR1P5K-B	S5-GR1P6K S6-GR1P6K S6-GR1P6K-R S6-GR1P6K-B
Max. input voltage:	600Vd.c.	600Vd.c.	600Vd.c.
MPP voltage range:	90-520Vd.c.	90-520Vd.c.	90-520Vd.c.
Max. input current:	2 x 14Ad.c.	2 x 14Ad.c.	2 x 14Ad.c.
Isc PV (absolute maximum):	2 x 22Ad.c.	2 x 22Ad.c.	2 x 22Ad.c.
Rated grid voltage:	1/N/PE 220/230Va.c.	1/N/PE 220/230Va.c.	1/N/PE 220/230Va.c.
Rated grid frequency:	50/60Hz	50/60Hz	50/60Hz
Rated output power:	4600W	5000W	6000W
Max. AC output active power:	5000W	5000W	6000W
Max. AC output apparent power:	5000VA	5000VA	6000VA
Max. continuous output current:	23.8Aa.c.	25Aa.c.	27.3Aa.c.

General specifications:		
Models	S6 series moldes	all other models
Adjustable cos(φ)	-0.8...1...+0.8	
Protection class	I	
Degree of protection	IP66	IP65
Overvoltage category	II(PV), III(MAINS)	
Ambient temperature	-25°C ... +60°C	
Inverter topology	Non-isolated	

**Tested
according to:**

EN 62109-1:2010
EN 62109-2:2011

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Product Service

Attestation of Conformity

No. E8A 086470 0086 Rev. 03

Holder of Certificate: **Ginlong Technologies Co., Ltd.**

No.57 Jintong Road
Binhai Industrial Park, Xiangshan
315712 Ningbo, Zhejiang
PEOPLE'S REPUBLIC OF CHINA

Name of Object: **Converter
(PV Grid-Tied Inverter)**

This Attestation of Conformity is issued on a voluntary basis according to the Directive 2014/30/EU relating to electromagnetic compatibility. It confirms that the listed apparatus complies with all essential requirements of the directive and is based on the technical specifications applicable at the time of issuance. It refers only to the particular sample submitted for testing and certification. For details see: www.tuvsud.com/ps-cert

Test report no.: 64772218005804

Date, 2022-04-22

(Tony Liu)

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After preparation of the necessary technical documentation as well as the EU Declaration of conformity the required CE marking can be affixed on the product. That Declaration of conformity is issued under the sole responsibility of the manufacturer. Other relevant EU-directives have to be observed.



Product Service

Attestation of Conformity

No. E8A 086470 0086 Rev. 03

Model(s):

Solis-1P2.5K-4G, Solis-1P3K-4G, Solis-1P3.6K-4G, Solis-1P4K-4G, Solis-1P4.6K-4G, Solis-1P5K-4G-MX, Solis-1P5K-4G, Solis-1P6K-4G, Solis-1P2.5K-4G-C, Solis-1P3K-4G-C, Solis-1P3.6K-4G-C, Solis-1P4K-4G-C, Solis-1P4.6K-4G-C, Solis-1P5K-4G-MX-C, Solis-1P5K-4G-C, Solis-1P6K-4G-C, S5-GR1P2.5K, S5-GR1P3K, S5-GR1P3.6K, S5-GR1P4K, S5-GR1P4.6K, S5-GR1P5K, S5-GR1P6K, S6-GR1P2.5K, S6-GR1P3K, S6-GR1P3.6K, S6-GR1P4K, S6-GR1P4.6K, S6-GR1P5K, S6-GR1P6K, S6-GR1P2.5K-R, S6-GR1P3K-R, S6-GR1P3.6K-R, S6-GR1P4K-R, S6-GR1P4.6K-R, S6-GR1P5K-R, S6-GR1P6K-R, S6-GR1P3K-LV, S6-GR1P2.5K-LV

Trade name:

solis



Description of Object:

Models	Solis-1P2.5K-4G Solis-1P2.5K-4G-C	Solis-1P3K-4G Solis-1P3K-4G-C	Solis-1P3.6K-4G Solis-1P3.6K-4G-C	Solis-1P4K-4G Solis-1P4K-4G-C
PV input ratings:				
Max. input voltage:	550Vd.c.	600Vd.c.	600Vd.c.	600Vd.c.
MPP voltage range:	50-450Vd.c.	90-520Vd.c.	90-520Vd.c.	90-520Vd.c.
Max. input current:	2 x 11Ad.c.	2 x 11Ad.c.	2 x 11Ad.c.	2 x 11Ad.c.
Isc PV (absolute maximum):	2 x 17.2Ad.c.	2 x 17.2Ad.c.	2 x 17.2Ad.c.	2 x 17.2Ad.c.
AC output ratings:				
Rated grid voltage:	1/N/PE 220/230Va.c.	1/N/PE 220/230Va.c.	1/N/PE 220/230Va.c.	1/N/PE 220/230Va.c.
Rated grid frequency:	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Rated output power:	2500W	3000W	3600W	4000W
Max. AC output active power:	2800W	3300W	4000W	4400W
Max. AC output apparent power:	2800VA	3300VA	4000VA	4400VA
Max. continuous output current:	13.3Aa.c.	15.7Aa.c.	16Aa.c.	21Aa.c.

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After preparation of the necessary technical documentation as well as the EU Declaration of conformity the required CE marking can be affixed on the product. That Declaration of conformity is issued under the sole responsibility of the manufacturer. Other relevant EU-directives have to be observed.



Product Service

Attestation of Conformity

No. E8A 086470 0086 Rev. 03

Models	Solis-1P4.6K-4G Solis-1P4.6K-4G-C	Solis-1P5K-4G Solis-1P5K-4G-C	Solis-1P5K-4G-MX Solis-1P5K-4G-MX-C	Solis-1P6K-4G Solis-1P6K-4G-C
PV input ratings:				
Max. input voltage:	600Vd.c.	600Vd.c.	600Vd.c.	600Vd.c.
MPP voltage range:	90-520Vd.c.	90-520Vd.c.	90-520Vd.c.	90-520Vd.c.
Max. input current:	2 x 11Ad.c.	2 x 11Ad.c.	2 x 11Ad.c.	2 x 11Ad.c.
Isc PV (absolute maximum):	2 x 17.2Ad.c.	2 x 17.2Ad.c.	2 x 17.2Ad.c.	2 x 17.2Ad.c.
AC output ratings:				
Rated grid voltage:	1/N/PE 220/230Va.c.	1/N/PE 220/230Va.c.	1/N/PE 220/230Va.c.	1/N/PE 220/230Va.c.
Rated grid frequency:	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Rated output power:	4600W	5000W	4999W	6000W
Max. AC output active power:	5000W	5000W	4999W	6000W
Max. AC output apparent power:	5000VA	5000VA	4999VA	6000VA
Max. continuous output current:	23.8Aa.c.	25Aa.c.	21.7Aa.c.	27.3Aa.c.

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After preparation of the necessary technical documentation as well as the EU Declaration of conformity the required CE marking can be affixed on the product. That Declaration of conformity is issued under the sole responsibility of the manufacturer. Other relevant EU-directives have to be observed.



Product Service

Attestation of Conformity

No. E8A 086470 0086 Rev. 03

Models	S5-GR1P2.5K S6-GR1P2.5K S6-GR1P2.5K-R	S5-GR1P3K S6-GR1P3K S6-GR1P3K-R	S5-GR1P3.6K S6-GR1P3.6K S6-GR1P3.6K-R	S5-GR1P4K S6-GR1P4K S6-GR1P4K-R
PV input ratings:				
Max. input voltage:	550Vd.c.	600Vd.c.	600Vd.c.	600Vd.c.
MPP voltage range:	50-450Vd.c.	90-520Vd.c.	90-520Vd.c.	90-520Vd.c.
Max. input current:	2 x 14Ad.c.	2 x 14Ad.c.	2 x 14Ad.c.	2 x 14Ad.c.
Isc PV (absolute maximum):	2 x 22Ad.c.	2 x 22Ad.c.	2 x 22Ad.c.	2 x 22Ad.c.
AC output ratings:				
Rated grid voltage:	1/N/PE 220/230Va.c.	1/N/PE 220/230Va.c.	1/N/PE 220/230Va.c.	1/N/PE 220/230Va.c.
Rated grid frequency:	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Rated output power:	2500W	3000W	3600W	4000W
Max. AC output active power:	2800W	3300W	4000W	4400W
Max. AC output apparent power:	2800VA	3300VA	4000VA	4400VA
Max. continuous output current:	13.3Aa.c.	15.7Aa.c.	16Aa.c.	21Aa.c.

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After preparation of the necessary technical documentation as well as the EU Declaration of conformity the required CE marking can be affixed on the product. That Declaration of conformity is issued under the sole responsibility of the manufacturer. Other relevant EU-directives have to be observed.



Attestation of Conformity

No. E8A 086470 0086 Rev. 03

Models	S5-GR1P4.6K S6-GR1P4.6K S6-GR1P4.6K-R	S5-GR1P5K S6-GR1P5K S6-GR1P5K-R	S5-GR1P6K S6-GR1P6K S6-GR1P6K-R
Max. input voltage:	600Vd.c.	600Vd.c.	600Vd.c.
MPP voltage range:	90-520Vd.c.	90-520Vd.c.	90-520Vd.c.
Max. input current:	2 x 14Ad.c.	2 x 14Ad.c.	2 x 14Ad.c.
Isc PV (absolute maximum):	2 x 22Ad.c.	2 x 22Ad.c.	2 x 22Ad.c.
Rated grid voltage:	1/N/PE 220/230Va.c.	1/N/PE 220/230Va.c.	1/N/PE 220/230Va.c.
Rated grid frequency:	50/60Hz	50/60Hz	50/60Hz
Rated output power:	4600W	5000W	6000W
Max. AC output active power:	5000W	5000W	6000W
Max. AC output apparent power:	5000VA	5000VA	6000VA
Max. continuous output current:	23.8Aa.c.	25Aa.c.	27.3Aa.c.

Models	S6-GR1P3K-LV	S6-GR1P2.5K-LV
Max. input voltage:	600Vd.c.	600Vd.c.
MPP voltage range:	90-520Vd.c.	90-520Vd.c.
Max. input current:	2 x 14Ad.c.	2 x 14Ad.c.
Isc PV (absolute maximum):	2 x 22Ad.c.	2 x 22Ad.c.
Rated grid voltage:	1/N/PE 110Va.c.	1/N/PE 110Va.c.
Rated grid frequency:	60Hz	60Hz
Max. AC output active power:	3000W	2500W
Max. AC output apparent power:	3000VA	2500VA
Max. continuous output current:	27.3Aa.c.	22.7Aa.c.

General specifications:		
Models	S6 series moldes	all other models
Adjustable cos(φ)	-0.8...1...+0.8	
Protection class	I	
Degree of protection	IP66	IP65
Overvoltage category	II(PV), III(MAINS)	
Ambient temperature	-25°C ... +60°C	
Inverter topology	Non-isolated	

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After preparation of the necessary technical documentation as well as the EU Declaration of conformity the required CE marking can be affixed on the product. That Declaration of conformity is issued under the sole responsibility of the manufacturer. Other relevant EU-directives have to be observed.



Product Service

Attestation of Conformity

No. E8A 086470 0086 Rev. 03

**Tested
according to:**

EN IEC 61000-6-1:2019
EN IEC 61000-6-2:2019
EN IEC 61000-6-3:2021
EN IEC 61000-6-4:2019
EN 55011:2016/A11:2020
EN 55011:2016/A2:2021

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After preparation of the necessary technical documentation as well as the EU Declaration of conformity the required CE marking can be affixed on the product. That Declaration of conformity is issued under the sole responsibility of the manufacturer. Other relevant EU-directives have to be observed.

Certificate of Conformity

NO.: ENB2112310167W01101C

The following products have been tested by us with the listed standards and found in conformity with the council Radio Equipment Directive 2014/53/EU. This is to certify that the specimen is in conformity with the assessment requirement mentioned follow. This certificate does not imply assessment to the production of the product.

Applicant	: Ginlong Technologies Co., Ltd.	
Address	: No.57 Jintong Road, Binhai Industrial Park, Xiangshan Ningbo, Zhejiang 315712 P.R. China	
Manufacturer	: Ginlong Technologies Co., Ltd.	
Address	: No.57 Jintong Road, Binhai Industrial Park, Xiangshan Ningbo, Zhejiang 315712 P.R. China	
Trade Mark	: Solis	
EUT	: Grid-connected PV Inverter	
M/N	: See ATTACHMENT/ Model List	
Essential Requirements	Standard	Report No.
Health(article 3.1.a)	EN IEC 62311:2020	ENB2112310167W01103R
Safety (article 3.1.a)	EN 62368-1:2014+A11:2017	ENB2112310167S01201R
EMC(article 3.1.b)	ETSI EN 301 489-1 V2.2.3: 2019, ETSI EN 301 489-17 V3.2.4: 2020	ENB2112310167W01101R
Radio (article 3.2)	ETSI EN 300 328 V2.2.2: 2019	ENB2112310167W01102R



Tony Wei
.....
Tony Wei/Manager
January 21, 2022



The certificate is based on a single evaluation of one sample of above-mentioned products, It does not imply an assessment of the whole production and does not permit the use of the test lab. logo .

EMTEK (Ningbo) Co., Ltd.

Add: 1/F., Building 4, No.1177, Lingyun Road, Ningbo Hi-Tech Zone, Ningbo, Zhejiang, China [Http://www.emtek.com.cn](http://www.emtek.com.cn) E-mail: nb@emtek.com.cn



ATTACHMENT

No.: ENB2112310167W01101C

Model List

Solis-1P2.5K-4G	Solis-1P2.5K-4G-C	Solis-1P3K-4G	Solis-1P3K-4G-C
Solis-1P3.6K-4G	Solis-1P3.6K-4G-C	Solis-1P4K-4G	Solis-1P4K-4G-C
Solis-1P4.6K-4G	Solis-1P4.6K-4G-C	Solis-1P5K-4G	Solis-1P5K-4G-C
Solis-1P5K-4G-MX	Solis-1P5K-4G-MX-C	Solis-1P6K-4G	Solis-1P6K-4G-C
S5-GR1P2.5K	S5-GR1P3K	S5-GR1P3.6K	S5-GR1P4K
S5-GR1P4.6K	S5-GR1P5K	S5-GR1P6K	S6-GR1P2.5K
S6-GR1P3K	S6-GR1P3.6K	S6-GR1P4K	S6-GR1P4.6K
S6-GR1P5K	S6-GR1P6K	S6-GR1P2.5K-R	S6-GR1P3K-R
S6-GR1P3.6K-R	S6-GR1P4K-R	S6-GR1P4.6K-R	S6-GR1P5K-R
S6-GR1P6K-R	/	/	/

The certificate is based on a single evaluation of one sample of above-mentioned products, It does not imply an assessment of the whole production and does not permit the use of the test lab. logo .

EMTEK (Ningbo) Co., Ltd.

Add: 1/F., Building 4, No.1177, Lingyun Road, Ningbo Hi-Tech Zone, Ningbo, Zhejiang, China Http://www.emtek.com.cn E-mail: nb@emtek.com.cn



Compliance Document

No. D 086470 0113 Rev. 00

Holder of Certificate: **Ginlong Technologies Co., Ltd.**

No.57 Jintong Road
Binhai Industrial Park, Xiangshan
315712 Ningbo, Zhejiang
PEOPLE'S REPUBLIC OF CHINA

Product: **Converter**
(PV Grid-Tied Inverter)

This Compliance document confirms the compliance with the listed standards on a voluntary basis. It refers only to the sample submitted for testing and certification and does not certify the quality or safety of the serial products. For details see: www.tuvsud.com/ps-cert

Test report no.: 64772228006201

Date, 2022-06-08



(Tony Liu)

Compliance Document

No. D 086470 0113 Rev. 00

Model(s):

Solis-1P2.5K-4G, Solis-1P3K-4G, Solis-1P3.6K-4G, Solis-1P4K-4G, Solis-1P4.6K-4G, Solis-1P5K-4G-MX, Solis-1P5K-4G, Solis-1P6K-4G, Solis-1P2.5K-4G-C, Solis-1P3K-4G-C, Solis-1P3.6K-4G-C, Solis-1P4K-4G-C, Solis-1P4.6K-4G-C, Solis-1P5K-4G-MX-C, Solis-1P5K-4G-C, Solis-1P6K-4G-C, S5-GR1P2.5K, S5-GR1P3K, S5-GR1P3.6K, S5-GR1P4K, S5-GR1P4.6K, S5-GR1P5K, S5-GR1P6K, S6-GR1P2.5K, S6-GR1P3K, S6-GR1P3.6K, S6-GR1P4K, S6-GR1P4.6K, S6-GR1P5K, S6-GR1P6K, S6-GR1P2.5K-R, S6-GR1P3K-R, S6-GR1P3.6K-R, S6-GR1P4K-R, S6-GR1P4.6K-R, S6-GR1P5K-R, S6-GR1P6K-R

Trade name:

solis



Compliance Document

No. D 086470 0113 Rev. 00

Parameters:

Model:	Solis-1P2.5K-4G Solis-1P2.5K-4G-C	Solis-1P3K-4G Solis-1P3K-4G-C	Solis-1P3.6K-4G Solis-1P3.6K-4G-C	Solis-1P4K-4G Solis-1P4K-4G-C
PV input ratings:				
Max. input voltage	550Vd.c.	600Vd.c.	600Vd.c.	600Vd.c.
MPP voltage range	50-450Vd.c.	90-520Vd.c.	90-520Vd.c.	90-520Vd.c.
Max. input current	2×11Ad.c.	2×11Ad.c.	2×11Ad.c.	2×11Ad.c.
Isc PV (absolute maximum)	2×17.2Ad.c.	2×17.2Ad.c.	2×17.2Ad.c.	2×17.2Ad.c.
AC output ratings:				
Rated grid voltage	1/N/PE 220/230Va.c.	1/N/PE 220/230Va.c.	1/N/PE 220/230Va.c.	1/N/PE 220/230Va.c.
Rated grid frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Rated output power	2500W	3000W	3600W	4000W
Max. AC output active power	2800W	3300W	4000W	4400W
Max. AC output apparent power	2800VA	3300VA	4000VA	4400VA
Max. continuous output current	13.3Aa.c.	15.7Aa.c.	16Aa.c.	21Aa.c.

Model:	S5-GR1P2.5K S6-GR1P2.5K S6-GR1P2.5K-R	S5-GR1P3K S6-GR1P3K S6-GR1P3K-R	S5-GR1P3.6K S6-GR1P3.6K S6-GR1P3.6K-R	S5-GR1P4K S6-GR1P4K S6-GR1P4K-R
PV input ratings:				
Max. input voltage	550Vd.c.	600Vd.c.	600Vd.c.	600Vd.c.
MPP voltage range	50-450Vd.c.	90-520Vd.c.	90-520Vd.c.	90-520Vd.c.
Max. input current	2×14Ad.c.	2×14Ad.c.	2×14Ad.c.	2×14Ad.c.
Isc PV (absolute maximum)	2×22Ad.c.	2×22Ad.c.	2×22Ad.c.	2×22Ad.c.
AC output ratings:				
Rated grid voltage	1/N/PE 220/230Va.c.	1/N/PE 220/230Va.c.	1/N/PE 220/230Va.c.	1/N/PE 220/230Va.c.
Rated grid frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Rated output power	2500W	3000W	3600W	4000W
Max. AC output active power	2800W	3300W	4000W	4400W
Max. AC output apparent power	2800VA	3300VA	4000VA	4400VA
Max. continuous output current	13.3Aa.c.	15.7Aa.c.	16Aa.c.	21Aa.c.

Compliance Document

No. D 086470 0113 Rev. 00

Model:	S5-GR1P4.6K S6-GR1P4.6K S6-GR1P4.6K-R	S5-GR1P5K S6-GR1P5K S6-GR1P5K-R	S5-GR1P6K S6-GR1P6K S6-GR1P6K-R
PV input ratings:			
Max. input voltage	600Vd.c.	600Vd.c.	600Vd.c.
MPP voltage range	90-520Vd.c	90-520Vd.c	90-520Vd.c
Max. input current	2×14Ad.c	2×14Ad.c	2×14Ad.c
Isc PV (absolute maximum)	2×22Ad.c	2×22Ad.c	2×22Ad.c
AC output ratings:			
Rated grid voltage	1/N/PE 220/230Va.c	1/N/PE 220/230Va.c	1/N/PE 220/230Va.c
Rated grid frequency	50/60Hz	50/60Hz	50/60Hz
Rated output power	4600W	5000W	6000W
Max. AC output active power	5000W	5000W	6000W
Max. AC output apparent power	5000VA	5000VA	6000VA
Max. continuous output current	23.8Aa.c.	25Aa.c.	27.3Aa.c.

**Tested
according to:**

EN IEC 61000-3-11:2019
EN 61000-3-12:2011



Product Service

CERTIFICATE

No. B 086470 0019 Rev. 06

Holder of Certificate: **Ginlong Technologies Co., Ltd.**

No.57 Jintong Road
Binhai Industrial Park, Xiangshan
315712 Ningbo, Zhejiang
PEOPLE'S REPUBLIC OF CHINA

Certification Mark:



Product:

**Converter
PV Grid-Tied Inverter**

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the testing and certification regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 704091623704-06

Valid until: 2027-07-03

Date, 2022-07-13

(Zhengdong Ma)

CERTIFICATE

No. B 086470 0019 Rev. 06

Model(s):

Solis-1P2.5K-4G, Solis-1P3K-4G, Solis-1P3.6K-4G,
Solis-1P4K-4G, Solis-1P4.6K-4G, Solis-1P5K-4G-MX,
Solis-1P5K-4G, Solis-1P6K-4G
Solis-1P2.5K-4G-C, Solis-1P3K-4G-C, Solis-1P3.6K-4G-C,
Solis-1P4K-4G-C, Solis-1P4.6K-4G-C, Solis-1P5K-4G-MX-C,
Solis-1P5K-4G-C, Solis-1P6K-4G-C
S5-GR1P2.5K, S5-GR1P3K, S5-GR1P3.6K, S5-GR1P4K,
S5-GR1P4.6K, S5-GR1P5K, S5-GR1P6K
S6-GR1P2.5K, S6-GR1P3K, S6-GR1P3.6K, S6-GR1P4K,
S6-GR1P4.6K, S6-GR1P5K, S6-GR1P6K
S6-GR1P2.5K-R, S6-GR1P3K-R, S6-GR1P3.6K-R,
S6-GR1P4K-R, S6-GR1P4.6K-R, S6-GR1P5K-R, S6-GR1P6K-R
S6-GR1P2.5K-B, S6-GR1P3K-B, S6-GR1P3.6K-B, S6-GR1P4K-
B, S6-GR1P4.6K-B, S6-GR1P5K-B, S6-GR1P6K-B

Parameters:

Models	Solis-1P2.5K-4G Solis-1P2.5K-4G-C	Solis-1P3K-4G Solis-1P3K-4G-C	Solis-1P3.6K-4G Solis-1P3.6K-4G-C	Solis-1P4K-4G Solis-1P4K-4G-C
PV input ratings:				
Max. input voltage:	550Vd.c.	600Vd.c.	600Vd.c.	600Vd.c.
MPP voltage range:	50-450Vd.c.	90-520Vd.c.	90-520Vd.c.	90-520Vd.c.
Max. input current:	2 x 11Ad.c.	2 x 11Ad.c.	2 x 11Ad.c.	2 x 11Ad.c.
Isc PV (absolute maximum):	2 x 17.2Ad.c.	2 x 17.2Ad.c.	2 x 17.2Ad.c.	2 x 17.2Ad.c.
AC output ratings:				
Rated grid voltage:	1/N/PE 220/230Va.c.	1/N/PE 220/230Va.c.	1/N/PE 220/230Va.c.	1/N/PE 220/230Va.c.
Rated grid frequency:	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Rated output power:	2500W	3000W	3600W	4000W
Max. AC output active power:	2800W	3300W	4000W	4400W
Max. AC output apparent power:	2800VA	3300VA	4000VA	4400VA
Max. continuous output current:	13.3Aa.c.	15.7Aa.c.	16Aa.c.	21Aa.c.

CERTIFICATE

No. B 086470 0019 Rev. 06

Models	Solis-1P4.6K-4G Solis-1P4.6K-4G-C	Solis-1P5K-4G Solis-1P5K-4G-C	Solis-1P5K-4G-MX Solis-1P5K-4G-MX-C	Solis-1P6K-4G Solis-1P6K-4G-C
PV input ratings:				
Max. input voltage:	600Vd.c.	600Vd.c.	600Vd.c.	600Vd.c.
MPP voltage range:	90-520Vd.c.	90-520Vd.c.	90-520Vd.c.	90-520Vd.c.
Max. input current:	2 x 11Ad.c.	2 x 11Ad.c.	2 x 11Ad.c.	2 x 11Ad.c.
Isc PV (absolute maximum):	2 x 17.2Ad.c.	2 x 17.2Ad.c.	2 x 17.2Ad.c.	2 x 17.2Ad.c.
AC output ratings:				
Rated grid voltage:	1/N/PE 220/230Va.c.	1/N/PE 220/230Va.c.	1/N/PE 220/230Va.c.	1/N/PE 220/230Va.c.
Rated grid frequency:	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Rated output power:	4600W	5000W	4999W	6000W
Max. AC output active power:	5000W	5000W	4999W	6000W
Max. AC output apparent power:	5000VA	5000VA	4999VA	6000VA
Max. continuous output current:	23.8Aa.c	25Aa.c	21.7Aa.c.	27.3Aa.c.

CERTIFICATE

No. B 086470 0019 Rev. 06

Models	S5-GR1P2.5K S6-GR1P2.5K S6-GR1P2.5K-R S6-GR1P2.5K-B	S5-GR1P3K S6-GR1P3K S6-GR1P3K-R S6-GR1P3K-B	S5-GR1P3.6K S6-GR1P3.6K S6-GR1P3.6K-R S6-GR1P3.6K-B	S5-GR1P4K S6-GR1P4K S6-GR1P4K-R S6-GR1P4K-B
PV input ratings:				
Max. input voltage:	550Vd.c.	600Vd.c.	600Vd.c.	600Vd.c.
MPP voltage range:	50-450Vd.c.	90-520Vd.c.	90-520Vd.c.	90-520Vd.c.
Max. input current:	2 x 14Ad.c.	2 x 14Ad.c.	2 x 14Ad.c.	2 x 14Ad.c.
Isc PV (absolute maximum):	2 x 22Ad.c.	2 x 22Ad.c.	2 x 22Ad.c.	2 x 22Ad.c.
AC output ratings:				
Rated grid voltage:	1/N/PE 220/230Va.c.	1/N/PE 220/230Va.c.	1/N/PE 220/230Va.c.	1/N/PE 220/230Va.c.
Rated grid frequency:	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Rated output power:	2500W	3000W	3600W	4000W
Max. AC output active power:	2800W	3300W	4000W	4400W
Max. AC output apparent power:	2800VA	3300VA	4000VA	4400VA
Max. continuous output current:	13.3Aa.c.	15.7Aa.c.	16Aa.c.	21Aa.c.

CERTIFICATE

No. B 086470 0019 Rev. 06

Models	S5-GR1P4.6K S6-GR1P4.6K S6-GR1P4.6K-R S6-GR1P4.6K-B	S5-GR1P5K S6-GR1P5K S6-GR1P5K-R S6-GR1P5K-B	S5-GR1P6K S6-GR1P6K S6-GR1P6K-R S6-GR1P6K-B
Max. input voltage:	600Vd.c.	600Vd.c.	600Vd.c.
MPP voltage range:	90-520Vd.c.	90-520Vd.c.	90-520Vd.c.
Max. input current:	2 x 14Ad.c.	2 x 14Ad.c.	2 x 14Ad.c.
Isc PV (absolute maximum):	2 x 22Ad.c.	2 x 22Ad.c.	2 x 22Ad.c.
Rated grid voltage:	1/N/PE 220/230Va.c.	1/N/PE 220/230Va.c.	1/N/PE 220/230Va.c.
Rated grid frequency:	50/60Hz	50/60Hz	50/60Hz
Rated output power:	4600W	5000W	6000W
Max. AC output active power:	5000W	5000W	6000W
Max. AC output apparent power:	5000VA	5000VA	6000VA
Max. continuous output current:	23.8Aa.c.	25Aa.c.	27.3Aa.c.

General specifications:		
Models	S6 series moldes	all other models
Adjustable cos(φ)	-0.8...1...+0.8	
Protection class	I	
Degree of protection	IP66	IP65
Overvoltage category	II(PV), III(MAINS)	
Ambient temperature	-25°C ... +60°C	
Inverter topology	Non-isolated	

Tested according to: EN 62109-1:2010
IEC 62109-1(ed.1)
IEC 62109-2(ed.1)
EN 62109-2:2011

CERTIFICADO DE CONFORMIDAD

Por medio del certificado de producto número / By the product certificate number

Nº 2621/0322-E1-CER

Emitido a / Issued to:

Propietario de la licencia /
License holder:

Ginlong Technologies Co., Ltd.

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

Marca / Trademark:



Dirección de Fábrica /
Factory location:

Ginlong Technologies Co., Ltd.

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

Se certifica que el producto / It is certified that the product:

Tipo de aparato / Type of product: **Inversor fotovoltaico para conexión a red / Grid Connected PV Inverter**

Modelos / Models:

**S6-GR1P2.5K / S6-GR1P3K / S6-GR1P3.6K / S6-GR1P4K / S6-GR1P4.6K / S6-GR1P5K /
S6-GR1P6K / Solis-1P2.5K-4G / Solis-1P3K-4G / Solis-1P3.6K-4G / Solis-1P4K-4G /
Solis-1P4.6K-4G / Solis-1P5K-4G / Solis-1P6K-4G / S5-GR1P2.5K / S5-GR1P3K /
S5-GR1P3.6K / S5-GR1P4K / S5-GR1P4.6K / S5-GR1P5K / S5-GR1P6K**

Datos técnicos /
Rated characteristics:

Potencia nominal / Rated Power:

Ver página 2 / See page 2

Tensión nominal / Rated Voltage:

230 V

Frecuencia nominal / Rated Frequency:

50 Hz

Versión Firmware / Firmware version:

490030

Número de fases / Number of phases:

Monofásico / Single Phase

Transformador de aislamiento / Isolation transformer

No

Está en cumplimiento con las normas / Is in compliance with of the standards:

- Norma Técnica de Supervisión de la conformidad de los Módulos de Generación de electricidad según el Reglamento UE 2016/631. Versión 2.0. De 3 de noviembre de 2020 (*)
- Corrección de errores de la versión 2.0 de la Norma Técnica de Supervisión de la Conformidad de los Módulos de Generación de Electricidad según el Reglamento UE 2016/631. Revisión 1.0. De 13 de abril de 2021.

(*)Ver en la página 3 más detalles sobre los requisitos de estas normas que están evaluados y en cumplimiento bajo el alcance de este certificado. / See page 3 for more details regarding the standard's requirements that are evaluated and in compliance under the scope of this certificate.

Se certifica que las Unidades de Generación Eléctrica (UGE) indicadas en este certificado cumplen con los requisitos estipulados en la norma certificada para solicitudes de conexión según **TIPO A**. / It is certified that Electrical Generating Units (UGE) above indicated are in compliance with requirements detailed in the above referenced standard for grid connections of **TYPE A**.

El equipo antes mencionado está certificado conforme con el procedimiento interno de SGS PE.T-ECPE-65 de acuerdo con los requisitos de la norma UNE-EN ISO/IEC 17065. / The above-mentioned generating unit is certified according to the SGS internal procedure PE.T-ECPE-65 based on the requirements of the UNE-EN ISO / IEC 17065.

Este certificado sustituye al certificado Nº 2621/0322-CER. / This certificate supersedes certificate no. 2621/0322-CER.

Este certificado se emite por vez primera: 15 de octubre de 2021. / This certificate is first issued on 15th October 2021.

Madrid, 13 de mayo de 2022

Daniel Arranz Muñiz
Certification Manager



Lista completa de referencias con las características nominales de los productos certificados /
Full list of product references and nominal characteristics:

Model	S6-GR1P2.5K	S6-GR1P3K	S6-GR1P3.6K	S6-GR1P4K	S6-GR1P4.6K	S6-GR1P5K	S6-GR1P6K
Input DC							
Max.DC Voltage	550 V	600 V					
Rated Input Voltage	250 V	330 V					
MPPT Voltage Range	50 V ~ 450 V	90 V ~ 520 V					
Max input current	14 A + 14 A						
Output AC							
Rated AC Output power	2500 W	3000 W	3600 W	4000 W	4600 W	5000 W	6000 W
Max AC Output power	2800 W	3300 W	4000 W	4400 W	5000 W	5000 W	6000 W
Rated output current	10.9 A	13.0 A	15.7 A	17.4 A	20.0 A	21.7 A	27.3 A
Nominal Grid Voltage	1/N/PE, 230 V _{ac}						
Nominal Frequency	50 Hz						

Model	Solis-1P2.5K-4G	Solis-1P3K-4G	Solis-1P3.6K-4G	Solis-1P4K-4G	Solis-1P4.6K-4G	Solis-1P5K-4G	Solis-1P6K-4G
Input DC							
Max.DC Voltage	550 V	600 V					
Rated Input Voltage	250 V	330 V					
MPPT Voltage Range	50 V ~ 450 V	90 V ~ 520 V					
Max input current	11 A + 11 A						
Output AC							
Rated AC Output power	2500 W	3000 W	3600 W	4000 W	4600 W	5000 W	6000 W
Max AC Output power	2800 W	3300 W	4000 W	4400 W	5000 W	5000 W	6000 W
Rated output current	10.9 A	13.0 A	15.7 A	17.4 A	20.0 A	21.7 A	27.3 A
Nominal Grid Voltage	1/N/PE, 230 V _{ac}						
Nominal Frequency	50 Hz						

Model	S5-GR1P2.5K	S5-GR1P3K	S5-GR1P3.6K	S5-GR1P4K	S5-GR1P4.6K	S5-GR1P5K	S5-GR1P6K
Input DC							
Max.DC Voltage	550 V	600 V					
Rated Input Voltage	250 V	330 V					
MPPT Voltage Range	50 V ~ 450 V	90 V ~ 520 V					
Max input current	12.5 A + 12.5 A						
Output AC							
Rated AC Output power	2500 W	3000 W	3600 W	4000 W	4600 W	5000 W	6000 W
Max AC Output power	2800 W	3300 W	4000 W	4400 W	5000 W	5000 W	6000 W
Rated output current	10.9 A	13.0 A	15.7 A	17.4 A	20.0 A	21.7 A	27.3 A
Nominal Grid Voltage	1/N/PE, 230 V _{ac}						
Nominal Frequency	50 Hz						



Requisito / Requirement	NTS	Tipo / Type	Cumplimiento / Compliant	Nombre Entidad Emisora / Name of Issuing Entity	Ev. (*)
Modo regulación potencia-frecuencia limitado sobrefrecuencia (MRPFL-O) / <i>Power-frequency regulation mode limited to overfrequency (MRPFL-O)</i>	5.1	≥A	SÍ / YES (TRF No. 2221/0322-E1)	SGS	P
Modo regulación potencia-frecuencia limitado-subfrecuencia (MRPFL-U) / <i>Power-frequency regulation mode limited to underfrequency (MRPFL-U)</i>	5.2	≥C	NO APLICABLE / NOT APPLICABLE	--	--
Modo regulación potencia-frecuencia (MRPF) / <i>Power-frequency regulation mode (MRPF)</i>	5.3	≥C	NO APLICABLE / NOT APPLICABLE	--	--
Control de potencia-frecuencia / <i>Power-Frequency Control</i>	5.4	≥C	NO APLICABLE / NOT APPLICABLE	--	--
Capacidad de control y el rango de control de la potencia activa en remoto / <i>Active Power Requirements</i>	5.5	≥C	NO APLICABLE / NOT APPLICABLE	--	--
Emulación de inercia durante variaciones de frecuencia muy rápidas / <i>Intertia Emualtions</i>	5.6	≥C	NO APLICABLE / NOT APPLICABLE	--	--
Capacidad de potencia reactiva a la capacidad máxima y por debajo / <i>Reactive power capabilities at the EUT rated power and below</i>	5.7	≥B	NO APLICABLE / NOT APPLICABLE	--	--
Modos de control de la potencia reactiva / <i>Reactive power control modes</i>	5.8	≥B	NO APLICABLE / NOT APPLICABLE	--	--
Control de amortiguamiento de oscilaciones / <i>Control of oscillation damping</i>	5.10	≥C	NO APLICABLE / NOT APPLICABLE	--	--
Capacidad para soportar huecos de tensión de los MPE conectados por debajo de 110 kV / <i>Capability to withstand voltage grid faults for POC below 110 kV</i>	5.11	≥B	NO APLICABLE / NOT APPLICABLE	--	--
Capacidad para soportar huecos de tensión de los MPE conectados por encima de 110 kV / <i>Capability to withstand voltage grid faults for POC above 110 kV</i>	5.11	D	NO APLICABLE / NOT APPLICABLE	--	--
Recuperación de la potencia activa después de una falta / <i>Active power recovery after a grid fault</i>	5.11	≥B	NO APLICABLE / NOT APPLICABLE	--	--
Inyección rápida de corriente de falta en el punto de conexión en caso de faltas (trifásicas) simétricas / <i>Rapid current injection control</i>	5.11	≥B	NO APLICABLE / NOT APPLICABLE	--	--
Capacidad de participar en el funcionamiento en isla / <i>Islanding requirements</i>	5.13	≥C	NO APLICABLE / NOT APPLICABLE	--	--

(*) Evaluado por / Evaluated by:

P: Prueba de conformidad / Test of compliance

S: Simulación de conformidad / Simulation of compliance



SGS Tecnos, S.A. C/ Trespaderna, 29 - 28042 Madrid

This certificate is issued by SGS under its General Conditions for Product Certification at www.sgs.com/terms_and_conditions.

The status and validity of the certificate can be checked scanning the QR code above included or through the following web link database:

<https://www.sgs.com/en/certified-clients-and-products/electrical-products>

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Nº 2621/0322-E1-CER

Página 3 de 3

CERTIFICATE of Conformity



Registration No.: AK 50507212 0001

Report No.: 50203867 004

Holder: **Ginlong technologies Co., Ltd.**
No.57 Jintong Road, Binhai,
(seafront), Industrial Park,
Xiangshan Ningbo
315712 Zhejiang
P.R. China

Product: **PV-Inverter**
(Grid-Connected PV Inverter)

Identification: Type Designation: Solis-1P2.5K-4G Solis-1P3K-4G
Solis-1P3.6K-4G Solis-1P4K-4G
Solis-1P4.6K-4G Solis-1P5K-4G
Solis-1P6K-4G S5-GR1P2.5K
S5-GR1P3K S5-GR1P3.6K
S5-GR1P4K S5-GR1P4.6K
S5-GR1P5K S5-GR1P6K

Tested acc. to: RD 1699:2011
UNE 206006 IN:2011
UNE 206007-1 IN:2013
UNE 217001:2020

The certificate of conformity refers to the above mentioned product. This is to certify that the specimen is in conformity with the assessment requirement mentioned above. This certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity.



Date 10.06.2021

Weichun Li

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

C E R T I F I C A T E

of Conformity



Registration No.: AK 50507212 0002

Report No.: 50203867 004

Holder: **Ginlong technologies Co., Ltd.**
No.57 Jintong Road, Binhai,
(seafront), Industrial Park,
Xiangshan Ningbo
315712 Zhejiang
P.R. China

Product: PV-Inverter
(Grid-Connected PV Inverter)

Identification: as page 0001 continuation
Serial Number : Engineering samples
Firmware Version: V2E
Remark : Compliance with the requirement of
RD 244/2019, Annex I. Refer to test
report 50203867 004 for details.

Tested acc. to: RD 1699:2011
UNE 206006 IN:2011
UNE 206007-1 IN:2013
UNE 217001:2020

The certificate of conformity refers to the above mentioned product. This is to certify that the specimen is in conformity with the assessment requirement mentioned above. This certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity.

Date 10.06.2021



TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

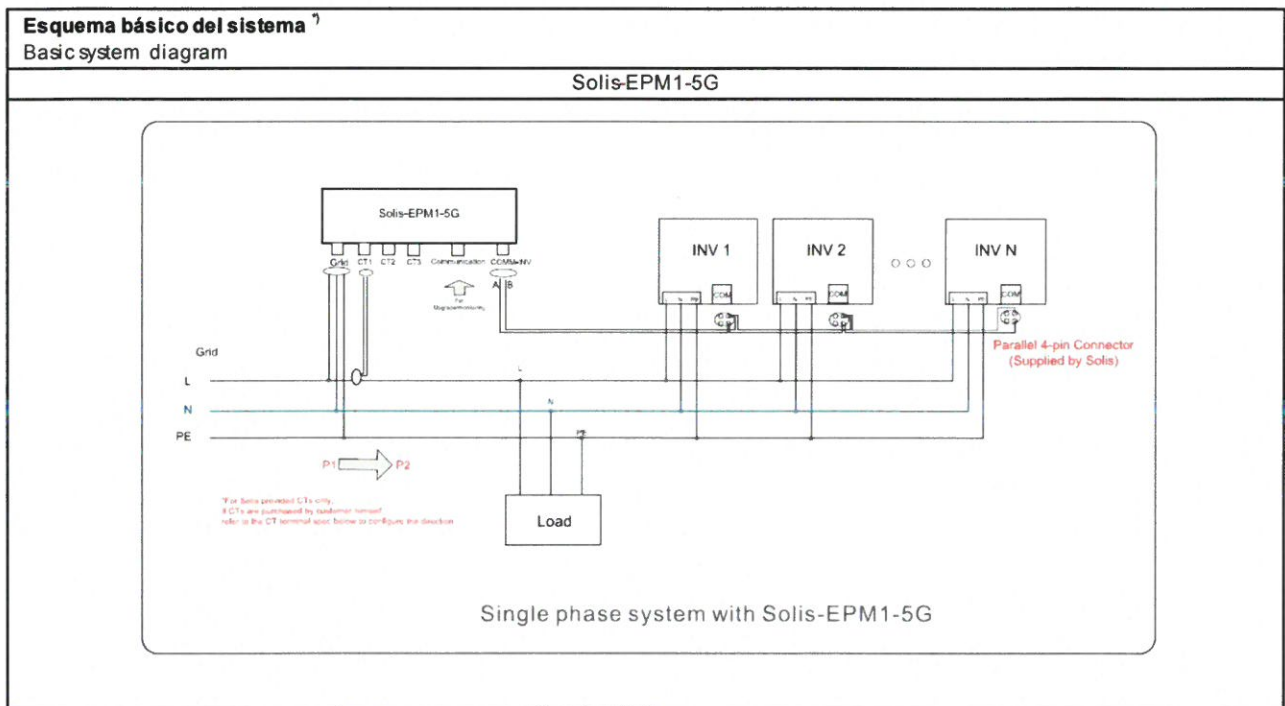
Modelo Model	Solis-1P2.5K-4G	Solis-1P3K-4G	Solis-1P3.6K-4G	Solis-1P4K-4G
Potencia nominal CA Nominal AC Power	2500	3000	3600	4000
Tensión nominal CA Nominal AC voltage	220/230	220/230	220/230	220/230
Corriente máxima CA Maximal AC current	13.3	15.7	16.0	21.0
Frecuencia nominal Nominal frequency	50/60	50/60	50/60	50/60
Rango de tensión MPPT MPPT voltage range	50-450	90-520	90-520	90-520
Tensión CC máxima Max. DC voltage	550	600	600	600
Corriente DC máxima Max. DC current	11/11	11/11	11/11	11/11
Elemento de control Control device	Controller in Inverter	Controller in Inverter	Controller in Inverter	Controller in Inverter
Tipo de dispositivo de control Type of control device	Integrated	Integrated	Integrated	Integrated

Modelo Model	Solis-1P4.6K-4G	Solis-1P5K-4G	Solis-1P6K-4G	S5-GR1P2.5K
Potencia nominal CA Nominal AC Power	4600	5000	6000	2500
Tensión nominal CA Nominal AC voltage	220/230	220/230	220/230	220/230
Corriente máxima CA Maximal AC current	23.8	25.0	27.3	13.3
Frecuencia nominal Nominal frequency	50/60	50/60	50/60	50/60
Rango de tensión MPPT MPPT voltage range	90-520	90-520	90-520	50-450
Tensión CC máxima Max. DC voltage	600	600	600	550
Corriente DC máxima Max. DC current	11/11	11/11	11/11	14/14
Elemento de control Control device	Controller in Inverter	Controller in Inverter	Controller in Inverter	Controller in Inverter
Tipo de dispositivo de control Type of control device	Integrated	Integrated	Integrated	Integrated

Modelo Model	S5-GR1P3K	S5-GR1P3.6K	S5-GR1P4K	S5-GR1P4.6K
Potencia nominal CA Nominal AC Power	3000	3600	4000	4600
Tensión nominal CA Nominal AC voltage	220/230	220/230	220/230	220/230
Corriente máxima CA Maximal AC current	15.7	16.0	21.0	15.7
Frecuencia nominal Nominal frequency	50/60	50/60	50/60	50/60
Rango de tensión MPPT MPPT voltage range	90-520	90-520	90-520	90-520
Tensión CC máxima Max. DC voltage	600	600	600	600
Corriente DC máxima Max. DC current	14/14	14/14	14/14	14/14
Elemento de control Control device	Controller in Inverter	Controller in Inverter	Controller in Inverter	Controller in Inverter
Tipo de dispositivo de control Type of control device	Integrated	Integrated	Integrated	Integrated

Modelo Model	S5-GR1P5K	S5-GR1P6K
Potencia nominal CA Nominal AC Power	5000	6000
Tensión nominal CA Nominal AC voltage	220/230	220/230
Corriente máxima CA Maximal AC current	25.0	27.3
Frecuencia nominal Nominal frequency	50/60	50/60
Rango de tensión MPPT MPPT voltage range	90-520	90-520
Tensión CC máxima Max. DC voltage	600	600
Corriente DC máxima Max. DC current	14/14	14/14
Elemento de control Control device	Controller in Inverter	Controller in Inverter
Tipo de dispositivo de control Type of control device	Integrated	Integrated

Información general del transductor de corriente externo / medidor de potencia ¹ General information of external current transductor/ power meter	
Modelo Model	Solis-EPM1-5G
Aplicación Application	1 Phase
Tensión nominal Nominal voltage	230 Vac
Corriente máxima Max. current	5 A
Clase de precisión Class of accuracy	Class 1
Tipo de comunicación Type of communication	RS485



***) Para cumplir los requisitos de RD244:2019 / ANEXO I y UNE 217001:2020, se instalará el dispositivo adicional.**
For fulfill the requirements of RD244 : 2019/ ANEXO I and UNE 217001:2020, the additional device shall be installed.

Información general del transductor de corriente externo / medidor de potencia ^{*)}

General information of external current transducer/ power meter

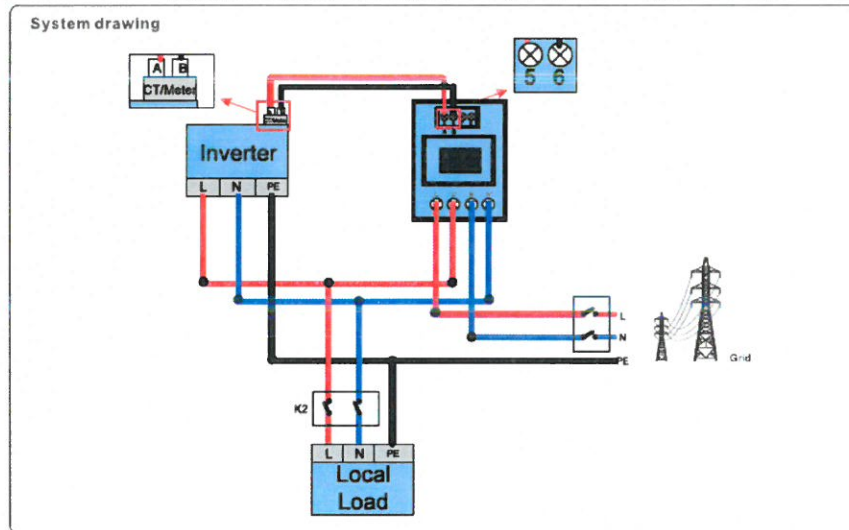
Modelo Model	DDSD1352-C
Aplicación Application	1 Phase
Tensión nominal Nominal voltage	230 Vac
Corriente máxima Max. current	63 A
Clase de precisión Class of accuracy	Class 1
Tipo de comunicación Type of communication	Meter

Esquema básico del sistema ^{*)}

Basic system diagram

DDSD1352-C

System drawing



***) Para cumplir los requisitos de RD244:2019 / ANEXO I y UNE 217001:2020, se instalará el dispositivo adicional.**
 For fulfill the requirements of RD244 : 2019/ ANEXO I and UNE 217001:2020, the additional device shall be installed.

Información general del transductor de corriente externo / medidor de potencia ¹

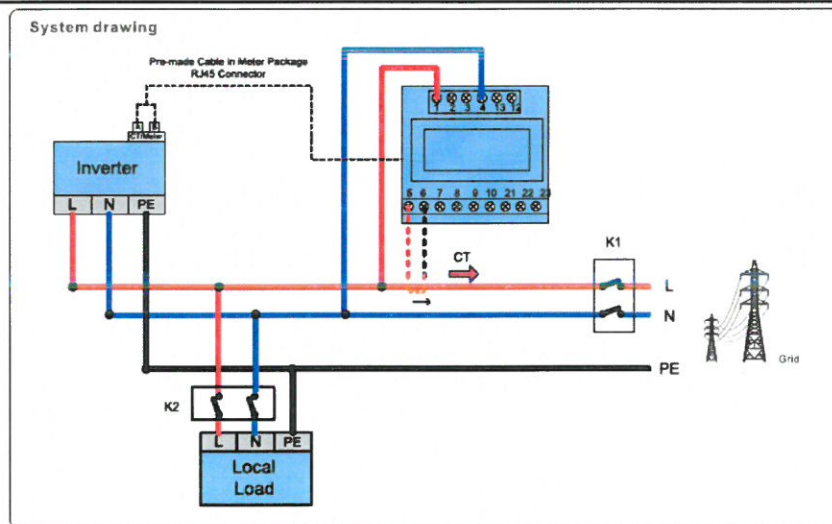
General information of external current transducer/ power meter

Modelo Model	ACR10R-D16TE
Aplicación Application	1 Phase
Tensión nominal Nominal voltage	230 Vac
Corriente máxima Max. current	120 A
Clase de precisión Class of accuracy	Class 1
Tipo de comunicación Type of communication	Meter

Esquema básico del sistema ¹

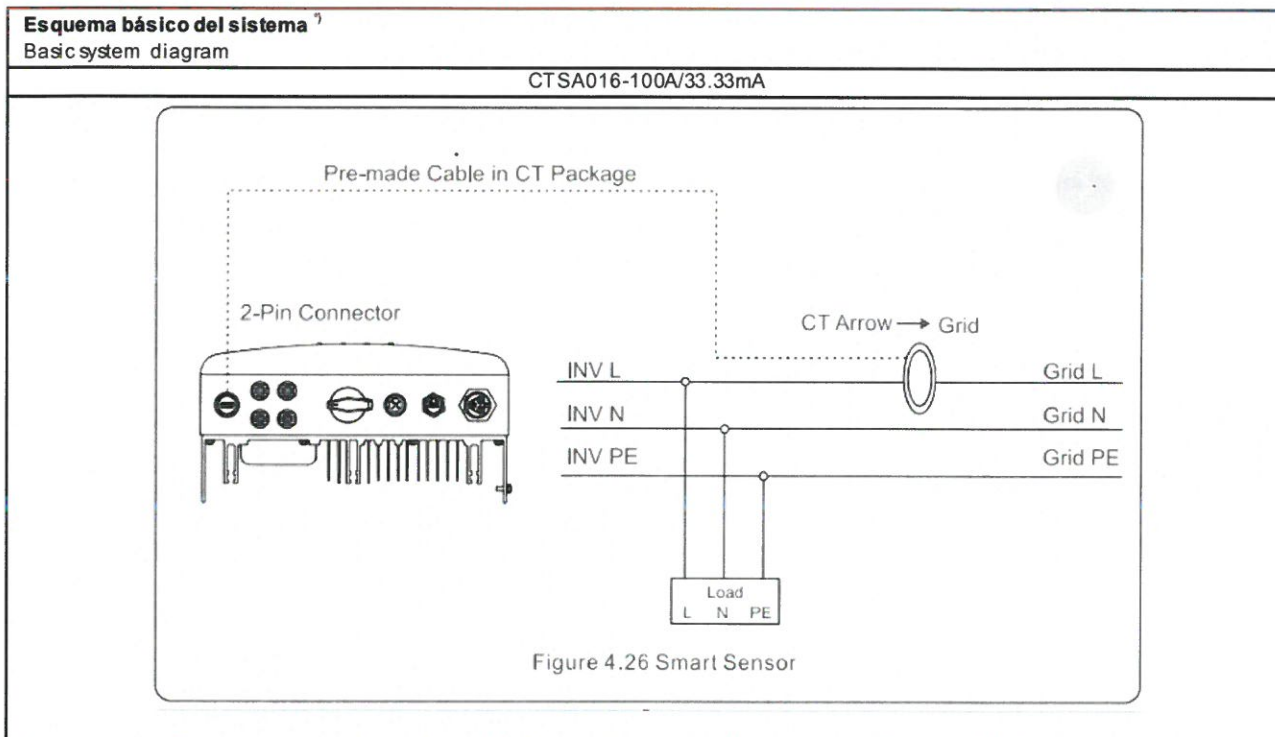
Basic system diagram

ACR10R-D16TE



***) Para cumplir los requisitos de RD244:2019 / ANEXO I y UNE 217001:2020, se instalará el dispositivo adicional.**
 For fulfill the requirements of RD244 : 2019/ ANEXO I and UNE 217001:2020, the additional device shall be installed.

Información general del transductor de corriente externo / medidor de potencia ^{*)}	
General information of external current transductor/ power meter	
Modelo Model	CTSA016-100A/33.33mA
Corriente máxima Max. current	120 A
Clase de precisión Class of accuracy	Class 1
Tipo de comunicación Type of communication	CT



***) Para cumplir los requisitos de RD244:2019 / ANEXO I y UNE 217001:2020, se instalará el dispositivo adicional.**
 For fulfill the requirements of RD244 : 2019/ ANEXO I and UNE 217001:2020, the additional device shall be installed.

Ginlong technologies Co., Ltd.
Zhang Kun

Date : 10.06.2021
Our ref. : HCC 01
Your ref.: Z.K

No.57 Jintong Road, Binhai,
(seafront), Industrial Park,
Xiangshan Ningbo
315712 Zhejiang
P.R. China

Ref : AK Certificate of Conformity

Type of Equipment : Grid-Connected PV Inverter
Model Designation : See Certificate
Certificate No. : AK 50507212 0001
Report No. : 50203867 004

Dear Zhang Kun,

We herewith confirm that a sample of the above mentioned technical equipment has been tested and was found to be in accordance with the relevant requirements.

Enclosed please find your Certificate of Conformity.

We appreciate your kind support and would like to offer our assistance and continuous services in the future.

With kind regards,

Certification Body


Weichun Li

Enclosure

证书的详细资料请登陆www.certipedia.com查阅,或拨打我司客服热线800 999 3668 / 400 883 1300咨询

CERTIFICATE of Conformity



Registration No.: AK 50516587 0001

Report No.: 50203867 005

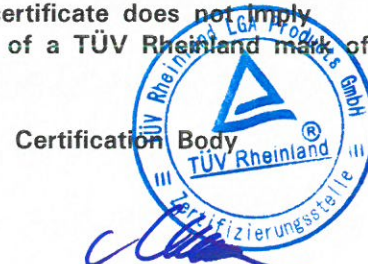
Holder: **Ginlong technologies Co., Ltd.**
No.57 Jintong Road, Binhai,
(seafront), Industrial Park,
Xiangshan Ningbo
315712 Zhejiang
P.R. China

Product: **PV-Inverter**
(Grid-connected PV Inverter)

Identification: Type Designation :
Solis-1PxxK-4G (xx=2.5,3,3.6,4,4.6,5,6)
S5-GR1PyyK (yy=2.5,3,3.6,4,4.6,5,6)
S6-GR1PzzK (zz=2.5,3,3.6,4,4.6,5,6)
Serial Number : Engineering Samples
Firmware Version : V2E
continued on page 0002

Tested acc. to: RD 1699:2011
UNE 206006 IN:2011
UNE 206007-1 IN:2013
UNE 217001:2020

The certificate of conformity refers to the above mentioned product. This is to certify that the specimen is in conformity with the assessment requirement mentioned above. This certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity.



Date 27.08.2021

Weichun Li

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

C E R T I F I C A T E

of Conformity



Registration No.: AK 50516587 0002

Report No.: 50203867 005

Holder: Ginlong technologies Co., Ltd.
No.57 Jintong Road, Binhai,
(seafront), Industrial Park,
Xiangshan Ningbo
315712 Zhejiang
P.R. China

Product: PV-Inverter
(Grid-connected PV Inverter)

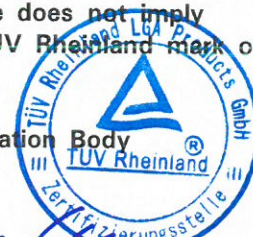
Identification: as page 0001 continuation

Remark(s) : Compliance with the requirement of RD
244/2019, Annex I. Refer to report
50203867 005 for details.

Tested acc. to: RD 1699:2011
UNE 206006 IN:2011
UNE 206007-1 IN:2013
UNE 217001:2020

The certificate of conformity refers to the above mentioned product. This is to certify that the specimen is in conformity with the assessment requirement mentioned above. This certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity.

Certification Body



Date 27.08.2021

Weichun Li

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg