

Compliance Document

No. D 086470 0056 Rev. 01

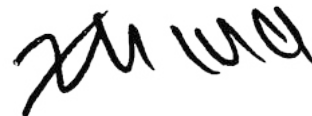
Holder of Certificate: **Ginlong Technologies Co., Ltd.**
No.57 Jintong Road
Binhai Industrial Park, Xiangshan
315712 Ningbo, Zhejiang
PEOPLE'S REPUBLIC OF CHINA

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.: 704091907631-01

Date, 2021-06-23



(Zhengdong Ma)

Compliance Document

No. D 086470 0056 Rev. 01

Model(s): Solis-3P3K-4G, Solis-3P4K-4G, Solis-3P5K-4G, Solis-3P6K-4G, Solis-3P8K-4G, Solis-3P8K-4G-BE, Solis-3P9K-4G, Solis-3P10K-4G, Solis-3P10K-4G-BE, Solis-3P12K-4G, Solis-3P15K-4G, Solis-3P17K-4G, Solis-3P20K-4G, S5-GR3P3K, S5-GR3P4K, S5-GR3P5K, S5-GR3P6K, S5-GR3P8K, S5-GR3P8K-BE, S5-GR3P9K, S5-GR3P10K, S5-GR3P10K-BE, S5-GR3P12K, S5-GR3P13K, S5-GR3P15K, S5-GR3P17K, S5-GR3P20K.

Parameters:

Max. input voltage:	1000 Vd.c. (Solis-3P3K-4G, Solis-3P4K-4G, Solis-3P5K-4G, Solis-3P6K-4G, Solis-3P8K-4G, Solis-3P8K-4G-BE, Solis-3P9K-4G, Solis-3P10K-4G, Solis-3P10K-4G-BE, Solis-3P12K-4G, Solis-3P15K-4G, Solis-3P17K-4G, Solis-3P20K-4G) 1100 Vd.c. (S5-GR3P3K, S5-GR3P4K, S5-GR3P5K, S5-GR3P6K, S5-GR3P8K, S5-GR3P8K-BE, S5-GR3P9K, S5-GR3P10K, S5-GR3P10K-BE, S5-GR3P12K, S5-GR3P13K, S5-GR3P15K, S5-GR3P17K, S5-GR3P20K)
Mppt voltage range:	160-850 Vd.c. (Solis-3P3K-4G, Solis-3P4K-4G, Solis-3P5K-4G, Solis-3P6K-4G, Solis-3P8K-4G, Solis-3P8K-4G-BE, Solis-3P9K-4G, Solis-3P10K-4G, Solis-3P10K-4G-BE, Solis-3P12K-4G, Solis-3P15K-4G, Solis-3P17K-4G, Solis-3P20K-4G) 160-1000 Vd.c. (S5-GR3P3K, S5-GR3P4K, S5-GR3P5K, S5-GR3P6K, S5-GR3P8K, S5-GR3P8K-BE, S5-GR3P9K, S5-GR3P10K, S5-GR3P10K-BE, S5-GR3P12K, S5-GR3P13K, S5-GR3P15K, S5-GR3P17K, S5-GR3P20K)
Max. input current:	2 x 11 A (Solis-3P3K-4G, Solis-3P4K-4G, Solis-3P5K-4G, Solis-3P6K-4G, Solis-3P8K-4G, Solis-3P9K-4G, Solis-3P10K-4G) 2 x 22 A (Solis-3P8K-4G-BE, Solis-3P10K-4G-BE, Solis-3P12K-4G, Solis-3P15K-4G, Solis-3P17K-4G, Solis-3P20K-4G) 2 x 16 A (S5-GR3P3K, S5-GR3P4K, S5-GR3P5K, S5-GR3P6K, S5-GR3P8K, S5-GR3P9K, S5-GR3P10K) 2 x 32 A (S5-GR3P8K-BE, S5-GR3P10K-BE, S5-GR3P12K, S5-GR3P13K, S5-GR3P15K, S5-GR3P17K, S5-GR3P20K)
Isc PV(absolute maximum):	2 x 17,2 A (Solis-3P3K-4G, Solis-3P4K-4G, Solis-3P5K-4G, Solis-3P6K-4G, Solis-3P8K-4G, Solis-3P9K-4G, Solis-3P10K-4G) 2 x 34,3 A (Solis-3P8K-4G-BE, Solis-3P10K-4G-BE, Solis-3P12K-4G, Solis-3P15K-4G, Solis-3P17K-4G, Solis-3P20K-4G) 2 x 25 A (S5-GR3P3K, S5-GR3P4K, S5-GR3P5K, S5-GR3P6K, S5-GR3P8K, S5-GR3P9K, S5-GR3P10K) 2 x 50 A (S5-GR3P8K-BE, S5-GR3P10K-BE, S5-GR3P12K, S5-GR3P13K, S5-GR3P15K, S5-GR3P17K, S5-GR3P20K)

Compliance Document

No. D 086470 0056 Rev. 01

Rated grid voltage:	3/N/PE~, 230/400 V
Rated grid frequency:	50 Hz
Rated output power:	3000W(Solis-3P3K-4G, S5-GR3P3K), 4000W(Solis-3P4K-4G, S5-GR3P4K), 5000 W (Solis-3P5K-4G, S5-GR3P5K), 6000 W (Solis-3P6K-4G, S5-GR3P6K), 8000 W (Solis-3P8K-4G, Solis-3P8K-4G-BE, S5-GR3P8K,S5-GR3P8K-BE), 9000 W (Solis-3P9K-4G, S5-GR3P9K), 10000 W (Solis-3P10K-4G, Solis-3P10K-4G-BE, S5-GR3P10K,S5-GR3P10K-BE), 12000 W (Solis-3P12K-4G, S5-GR3P12K),13000 W (S5-GR3P13K) ,15000 W (Solis-3P15K-4G, S5-GR3P15K), 17000 W (Solis-3P17K-4G, S5-GR3P17K), 20000 W (Solis-3P20K-4G, S5-GR3P20K)
Max. AC output active power:	3300W(Solis-3P3K-4G, S5-GR3P3K), 4400W(Solis-3P4K-4G, S5-GR3P4K), 5500 W (Solis-3P5K-4G,S5-GR3P5K), 6600 W (Solis-3P6K-4G, S5-GR3P6K), 8800 W (Solis-3P8K-4G, Solis-3P8K-4G-BE, S5-GR3P8K,S5-GR3P8K-BE), 9900 W (Solis-3P9K-4G, S5-GR3P9K), 10000W(Solis-3P10K-4G-BE,S5-GR3P10K-BE),11000 W (Solis-3P10K-4G, S5-GR3P10K), 13200 W (Solis-3P12K-4G, S5-GR3P12K), 14300 W (S5-GR3P13K), 16500 W (Solis-3P15K-4G, S5-GR3P15K), 18700 W (Solis-3P17K-4G, S5-GR3P17K), 22000 W (Solis-3P20K-4G, S5-GR3P20K)
Max. AC output apparent power:	3300VA(Solis-3P3K-4G, S5-GR3P3K), 4400VA(Solis-3P4K-4G,S5-GR3P4K), 5500 VA (Solis-3P5K-4G, S5-GR3P5K), 6600 VA (Solis-3P6K-4G, S5-GR3P6K), 8800 VA (Solis-3P8K-4G, Solis-3P8K-4G-BE, S5-GR3P8K,S5-GR3P8K-BE), 9900 VA (Solis-3P9K-4G, S5-GR3P9K), 10000VA(Solis-3P10K-4G-BE,S5-GR3P10K-BE),11000 VA (Solis-3P10K-4G, S5-GR3P10K), 13200 VA (Solis-3P12K-4G, S5-GR3P12K), 14300 W (S5-GR3P13K), 16500 VA (Solis-3P15K-4G,S5-GR3P15K), 18700 VA (Solis-3P17K-4G, S5-GR3P17K), 22000 VA (Solis-3P20K-4G,S5-GR3P20K)
Max. continuous output current:	4,7 A (Solis-3P3K-4G, S5-GR3P3K), 6,4 A (Solis-3P4K-4G, S5-GR3P4K), 7,9 A (Solis-3P5K-4G,S5-GR3P5K), 9,5 A (Solis-3P6K-4G, S5-GR3P6K), 12,7 A (Solis-3P8K-4G, Solis-3P8K-4G-BE, S5-GR3P8K,S5-GR3P8K-BE), 14,3 A (Solis-3P9K-4G, S5-GR3P9K),15,9 A (Solis-3P10K-4G, Solis-3P10K-4G-BE, S5-GR3P10K, S5-GR3P10K-BE),19,1 A (Solis-3P12K-4G, S5-GR3P12K), 20,7 A (S5-GR3P13K), 23,8 A (Solis-3P15K-4G, S5-GR3P15K), 27 A (Solis-3P17K-4G, S5-GR3P17K),31,8 A (Solis-3P20K-4G, S5-GR3P20K)
Adjustable displacement factor:	-0,8...1...+0,8
Operating temperature Range:	-25 °C...+60 °C
Ingress Protection:	IP66
Protective Class:	I
Overtoltage category:	II(PV), III(Mains)
Inverter topology:	Non-isolated

Tested according to:

EN 50549-1:2019/AC:2019

CERTIFICATE of Conformity

Registration No.: AK 50521506 0001

Report No.: 50285370 002

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 : S5-GR3P3K S5-GR3P4K S5-GR3P5K
S5-GR3P6K S5-GR3P8K S5-GR3P9K
S5-GR3P10K S5-GR3P12K S5-GR3P13K
S5-GR3P15K S5-GR3P17K S5-GR3P20K
Serial Number : Engineering Samples
Firmware version : V30
Remark(s) : Refer to report 50285370 002 for details.

Tested acc. to: IEC 61000-3-11:2000
IEC 61000-3-12:2011
IEC 61000-3-3:2013+A1+A2
IEC 61000-3-2:2018+A1

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 19.10.2021



Bruce Li
Bruce Li

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

TÜV Rheinland (China) Ltd.
Member of TÜV Rheinland Group



Ginlong technologies Co., Ltd.
Zhang Kun

Date : 19/10/2021
Our ref. : PJG 01
Your ref.: Kun Zhang

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 50521506 0001
Report No. : 50285370 002

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

Bruce Li

CC: Ginlong technologies Co., Ltd.

Enclosure

C E R T I F I C A T E
of Conformity
EC Council Directive 2014/30/EU
Electromagnetic Compatibility

Registration No.: AE 50566152 0001

Report No.: 50185787 012

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: See type designations in attachment 1.1

Serial No.: n.a.

Remark: Refer to test reports 50185787 001-012 for details.
Continued on page 0002.

Tested acc. to: EN IEC 61000-6-4:2019
EN IEC 61000-6-3:2021
EN IEC 61000-6-2:2019
EN IEC 61000-6-1:2019
EN 55011:2016+A1+A11+A2

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical Report and documentation are at the Licence Holder's disposal. This is to certify that the tested sample is in conformity with all provisions of Annex I of Council Directive 2014/30/EU. 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. The holder of the certificate is authorized to use this certificate in connection with the EC declaration of conformity according to the a.m. Directive.

Date 22.11.2022



Certification Body

Xinhua Lu

Xinhua Lu

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg



CERTIFICATE
of Conformity
EC Council Directive 2014/30/EU
Electromagnetic Compatibility

Registration No.: AE 50566152 0002

Report No.: 50185787 012

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: See type designations in attachment 1.1

Serial No.: n.a.

Remark: Refer to test reports 50185787 001-012 for details.
Refer to page 0001.

Tested acc. to: IEC 61000-6-4:2018
IEC 61000-6-3:2020
IEC 61000-6-2:2016
IEC 61000-6-1:2016
CISPR 11:2015+A1+A2

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical Report and documentation are at the Licence Holder's disposal. This is to certify that the tested sample is in conformity with all provisions of Annex I of Council Directive 2014/30/EU. 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. The holder of the certificate is authorized to use this certificate in connection with the EC declaration of conformity according to the a.m. Directive.

Certification Body

Date 22.11.2022



Xinhua Lu
Xinhua Lu

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

CE The CE marking may only be used if all relevant and effective EC Directives are complied with. **CE**

TÜV Rheinland
LGA Products GmbH
Tillystraße 2, 90431 Nürnberg

**Attachment to
 Registration No.:** AE 50566152 0001
Report No.: 50185787 012

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

Scope: type designation:

Solis-3P3K-4G	Solis-3P4K-4G	Solis-3P5K-4G-LV
Solis-3P6K-4G-LV	Solis-3P10K-4G-LV	Solis-3P8K-4G-BE
Solis-3P10K-4G-BE	Solis-3P5K-4G	Solis-3P6K-4G
Solis-3P8K-4G	Solis-3P9K-4G	Solis-3P10K-4G
Solis-3P12K-4G	Solis-3P15K-4G	Solis-3P17K-4G
Solis-3P20K-4G	Solis-3P5K-4G-AU	Solis-3P6K-4G-AU
Solis-3P8K-4G-AU	Solis-3P9K-4G-AU	Solis-3P10K-4G-AU
S5-GR3P3K	S5-GR3P4K	Solis-3P5K-4G-AU-MX
S5-GR3P5K	S5-GR3P6K	S5-GR3P8K
S5-GR3P9K	S5-GR3P10K	S5-GR3P12K
S5-GR3P13K	S5-GR3P15K	S5-GR3P17K
S5-GR3P20K	S5-GR3P5K-AU	S5-GR3P6K-AU
S5-GR3P8K-AU	S5-GR3P9K-AU	S5-GR3P10K-AU
S5-GR3P5K-LV	S5-GR3P6K-LV	S5-GR3P10K-LV
S5-GR3P8K-BE	S5-GR3P10K-BE	S5-GR3P15K-HV
S5-GR3P20K-HV	Solis-3P15K-4G-HV	S5-GR3P10K-LV-BE



Xinhua Lu

Date: 2022-11-22

Ginlong technologies Co., Ltd.

Date : 22.11.2022
Our ref. : Zhangleoh 01
Your ref.: C. Q. Y.

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

Ref : AE Certificate of Conformity EMC

Type of Equipment : Grid-connected PV Inverter
Model Designation : See Certificate
Certificate No. : AE 50566152 0001
Report No. : 50185787 012

Dear Ladies and Gentlemen,

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



Xinhua Lu

CC: Ginlong technologies Co., Ltd.

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

C E R T I F I C A T E
of Conformity



Registration No.: AK 50514507 0001

Report No.: 50171233 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-3PxK-4G S5-GR3PyK
(x=5,6,8,9,10,12,15,17,20)
(y=3,4,5,6,8,9,10,12,13,15,17,20)
Serial Number : Engineering Samples
Firmware version : V18
Remark(s) : Refer to report 50171233 006 for details.

Tested acc. to: IEC 61727:2004
IEC 62116:2014

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 13.08.2021

Certification Body
TÜV Rheinland
Zertifizierungsstelle

Weichun Li

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

Ginlong technologies Co., Ltd.
Zhang Kun

Date : 13.08.2021
Our ref. : PJG 01
Your ref.: Kun Zhang

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 50514556 0001
Report No. : 50330358 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

CC: Ginlong technologies Co., Ltd.

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

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 50384315

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0016

Ihr Zeichen *Client Reference*
Qingying Cui

Unser Zeichen *Our Reference*
01-Kese-50166775 014

Ausstellungsdatum
18.08.2021

Date of Issue
(day/mo/yr)

Genehmigungsinhaber *License Holder*

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

Fertigungsstätte *Manufacturing Plant*

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

Prüfzeichen *Test Mark*



Bauart geprüft
Sicherheit
Regelmäßige
Produktions-
überwachung

www.tuv.com
ID 1419049315

Geprüft nach *Tested acc. to*

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

Zertifiziertes Produkt (Geräteidentifikation) *Certified Product (Product Identification)*

Lizenzentgelte - Einheit *License Fee - Unit*

PV-Wechselrichter (Grid-connected PV Inverter)

Type Designation	: S5-GR3P3K S5-GR3P4K S5-GR3P5K	3
Vmax PV [Vd.c.]	: 1100	
Isc PV [Ad.c.]	: 25/25	
MPP Voltage Range [Vd.c.]	: 160-1000	
Max. Input Current [Ad.c.]	: 16/16	
Overvoltage Category (OVC)	: II for PV	
Rated Output Volt. [Va.c.]	: 3/N/PE, 220/380 V, 230/400 V	
Rated Output Freq. [Hz]	: 50/60	
Rated Output Power [W]	: 3000 4000 5000	
Max. Output Curr. [Aa.c.]	: 4.7 6.4 7.9	
Power Factor	: [-0.80, 0.80]	

continued on page 0017

3

ANLAGE (Appendix): 1.2

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.

This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standards and testing requirements as indicated above. Any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance.

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg

Tel.: +49 221 806-1371 e-mail: cert-validity@de.tuv.com
Fax: +49 221 806-3935 http://www.tuv.com/safety



Weichun Li

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 50384315

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0017

Ihr Zeichen <i>Client Reference</i>	Unser Zeichen <i>Our Reference</i>	Ausstellungsdatum	<i>Date of Issue</i>
Qingying Cui	01-Kese-50166775 014	18.08.2021	(day/mo/yr)

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

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

Prüfzeichen *Test Mark*



Bauart geprüft
Sicherheit
Regelmäßige
Produktions-
überwachung

www.tuv.com
ID 1419049315

Geprüft nach *Tested acc. to*

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

Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

PV-Wechselrichter (Grid-connected PV Inverter)

as page 0016 continuation

3

Type Designation : S5-GR3P6K S5-GR3P8K S5-GR3P9K

Vmax PV [Vd.c.] : 1100
Isc PV [Ad.c.] : 25/25
MPP Voltage Range[Vd.c.] : 160-1000
Max. Input Current[Ad.c.] : 16/16
Overvoltage Category (OVC) : II for PV

Rated Output Volt.[Va.c.] : 3/N/PE, 220/380 V, 230/400 V
Rated Output Freq.[Hz] : 50/60
Rated Output Power[W] : 6000 8000 9000
Max. Output Curr.[Aa.c.] : 9.5 12.7 14.3
Power Factor : [-0.80, 0.80]

continued on page 0018

ANLAGE (Appendix): 1.2

3

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.

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TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg

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Weichun Li

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 50384315

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0018

Ihr Zeichen *Client Reference*
Qingying Cui

Unser Zeichen *Our Reference*
01-Kese-50166775 014

Ausstellungsdatum *Date of Issue*
18.08.2021 (day/mo/yr)

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

Fertigungsstätte *Manufacturing Plant*
Ginlong technologies Co., Ltd.
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IEC 62109-1:2010
IEC 62109-2:2011
EN 62109-1:2010
EN 62109-2:2011

Zertifiziertes Produkt (Geräteidentifikation) *Certified Product (Product Identification)*

Lizenzentgelte - Einheit *License Fee - Unit*

PV-Wechselrichter (Grid-connected PV Inverter)

as page 0017 continuation

2

Type Designation : S5-GR3P10K S5-GR3P12K
Vmax PV [Vd.c.] : 1100
Isc PV [Ad.c.] : 25/25 50/50
MPP Voltage Range[Vd.c.] : 160-1000
Max. Input Current[Ad.c.] : 16/16 32/32
Overvoltage Category (OVC) : II for PV

Rated Output Volt.[Va.c.] : 3/N/PE, 220/380 V, 230/400 V
Rated Output Freq.[Hz] : 50/60
Rated Output Power[W] : 10000 12000
Max. Output Curr.[Aa.c.] : 15.9 19.1
Power Factor : [-0.80, 0.80]

continued on page 0019

ANLAGE (Appendix): 1.2

2

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Ihr Zeichen <i>Client Reference</i>	Unser Zeichen <i>Our Reference</i>	Ausstellungsdatum	<i>Date of Issue</i>
Qingying Cui	01-Kese-50166775 014	18.08.2021	(day/mo/yr)

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Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

PV-Wechselrichter (Grid-connected PV Inverter)

as page 0018 continuation

2

Type Designation	: S5-GR3P13K S5-GR3P15K
Vmax PV [Vd.c.]	: 1100
Isc PV [Ad.c.]	: 50/50
MPP Voltage Range [Vd.c.]	: 160-1000
Max. Input Current [Ad.c.]	: 32/32
Overvoltage Category (OVC)	: II for PV
Rated Output Volt. [Va.c.]	: 3/N/PE, 220/380 V, 230/400 V
Rated Output Freq. [Hz]	: 50/60
Rated Output Power [W]	: 13000 15000
Max. Output Curr. [Aa.c.]	: 20.7 23.8
Power Factor	: [-0.80, 0.80]

continued on page 0020

ANLAGE (Appendix): 1.2

2

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Zertifiziertes Produkt (Geräteidentifikation) *Certified Product (Product Identification)*

Lizenzentgelte - Einheit *License Fee - Unit*

PV-Wechselrichter (Grid-connected PV Inverter)

as page 0019 continuation

2

Type Designation	: S5-GR3P17K S5-GR3P20K
Vmax PV [Vd.c.]	: 1100
Isc PV [Ad.c.]	: 50/50
MPP Voltage Range [Vd.c.]	: 160-1000
Max. Input Current [Ad.c.]	: 32/32
Overvoltage Category (OVC)	: II for PV
Rated Output Volt. [Va.c.]	: 3/N/PE, 220/380 V, 230/400 V
Rated Output Freq. [Hz]	: 50/60
Rated Output Power [W]	: 17000 20000
Max. Output Curr. [Aa.c.]	: 27 31.8
Power Factor	: [-0.80, 0.80]

continued on page 0021

ANLAGE (Appendix): 1.2

2

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Qingying Cui	01-Kese-50166775 014	18.08.2021	(day/mo/yr)

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Geprüft nach *Tested acc. to*

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

Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

PV-Wechselrichter (Grid-connected PV Inverter)

as page 0020 continuation

3

Type Designation : S5-GR3P5K-AU S5-GR3P6K-AU S5-GR3P8K-AU

Vmax PV [Vd.c.]	: 1100		
Isc PV [Ad.c.]	: 50/25	50/25	50/50
MPP Voltage Range [Vd.c.]	: 160-1000		
Max. Input Current [Ad.c.]	: 32/16	32/16	32/32
Overvoltage Category (OVC)	: II for PV		
Rated Output Volt. [Va.c.]	: 3/N/PE, 230/400 V		
Rated Output Freq. [Hz]	: 50		
Rated Output Power [W]	: 5000	6000	8000
Max. Output Curr. [Aa.c.]	: 7.9	9.5	12.7
Power Factor	: [-0.80, 0.80]		

continued on page 0022

ANLAGE (Appendix): 1.2

3

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Zertifikat Nr. *Certificate No.*
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0022

Ihr Zeichen *Client Reference*
Qingying Cui

Unser Zeichen *Our Reference*
01-Kese-50166775 014

Ausstellungsdatum *Date of Issue*
18.08.2021 (day/mo/yr)

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Ginlong technologies Co., Ltd.
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EN 62109-1:2010
EN 62109-2:2011

Zertifiziertes Produkt (Geräteidentifikation) *Certified Product (Product Identification)*

Lizenzentgelte - Einheit *License Fee - Unit*

PV-Wechselrichter (Grid-connected PV Inverter)

as page 0021 continuation

2

Type Designation : S5-GR3P9K-AU S5-GR3P10K-AU

Vmax PV [Vd.c.] : 1100
Isc PV [Ad.c.] : 50/50
MPP Voltage Range[Vd.c.] : 160-1000
Max. Input Current[Ad.c.] : 32/32
Overvoltage Category (OVC) : II for PV

Rated Output Volt.[Va.c.] : 3/N/PE, 230/400 V
Rated Output Freq.[Hz] : 50
Rated Output Power[W] : 9000 10000
Max. Output Curr.[Aa.c.] : 14.3 15.9
Power Factor : [-0.80, 0.80]

continued on page 0023

ANLAGE (Appendix) : 1.2

2

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Ihr Zeichen <i>Client Reference</i>	Unser Zeichen <i>Our Reference</i>	Ausstellungsdatum	<i>Date of Issue</i>
Qingying Cui	01-Kese-50166775 014	18.08.2021	(day/mo/yr)

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EN 62109-1:2010
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Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

PV-Wechselrichter (Grid-connected PV Inverter)

as page 0022 continuation

3

Type Designation: S5-GR3P5K-LV S5-GR3P6K-LV S5-GR3P10K-LV

Vmax PV [Vd.c.]	: 1100		
Isc PV [Ad.c.]	: 25/25	25/25	50/50
MPP Voltage Range [Vd.c.]	: 160-500		
Max. Input Current [Ad.c.]	: 16/16	16/16	32/32
Overvoltage Category (OVC)	: II for PV		

Rated Output Volt. [Va.c.]	: 3/N/PE, 208/220/240 V		
Rated Output Freq. [Hz]	: 50/60		
Rated Output Power [W]	: 5000	6000	10000
Max. Output Curr. [Aa.c.]	: 14.4	16.7	28.8
Power Factor	: [-0.80, 0.80]		

continued on page 0024

ANLAGE (Appendix): 1.2

3

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0024

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Qingying Cui	01-Kese-50166775 014	18.08.2021 <i>(day/mo/yr)</i>

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EN 62109-1:2010
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Zertifiziertes Produkt (Geräteidentifikation) *Certified Product (Product Identification)*

Lizenzentgelte - Einheit *License Fee - Unit*

PV-Wechselrichter (Grid-connected PV Inverter)

as page 0023 continuation

2

Type Designation	: S5-GR3P8K-BE S5-GR3P10K-BE
Vmax PV [Vd.c.]	: 1100
Isc PV [Ad.c.]	: 50/50
MPP Voltage Range[Vd.c.]	: 160-1000
Max. Input Current[Ad.c.]	: 32/32
Overvoltage Category (OVC)	: II for PV
Rated Output Volt.[Va.c.]	: 3/N/PE, 230/400 V
Rated Output Freq.[Hz]	: 50
Rated Output Power[W]	: 8000 10000
Max. Output Curr.[Aa.c.]	: 12.7 15.9
Power Factor	: [-0.80, 0.80]

continued on page 0025

ANLAGE (Appendix): 1.2

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Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

PV-Wechselrichter (Grid-connected PV Inverter)

as page 0024 continuation

Protective Class : Class I
Ingress Protection (IP) : IP66
Pollution Degree (PD) : PD3
Operating Temperature [°C]: -25 to 60 (> 45 derating)
Type of Inverter : Non-isolated

Remark(s) :

The installation has to be carried out according to the attached installation instruction.
Any additional requirements in countries where the product is going to be marketed have to be considered additionally.

ANLAGE (Appendix): 1.2

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