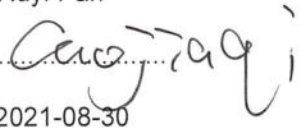


TEST REPORT
ABNT NBR 16149
Photovoltaic (PV) systems - Characteristics of the connection interface with the
distribution grid
ABNT NBR 16150
Photovoltaic (PV) systems - Characteristics of the distribution grid connection interface -
Conformity test procedure

Report Reference No..... ERD-CR202108028

Tested by (name + signature)..... Ruyi Pan

Approved by (name + signature)..... 

Date of issue..... 2021-08-30

Laboratory of Tests..... Ginlong technologies Co., Ltd.

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

Test location / address..... Ginlong technologies Co., Ltd.
 No.57 Jintong Road, Binhai, (seafront) industrial Park, Xiangshan,
 Ningbo, Zhejiang, 315712, P.R. China

Applicant's name..... Ginlong technologies Co., Ltd.

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

Testing Specification:

Standard..... ABNT NBR 16149:2013

ABNT NBR 16150:2013

ABNT NBR IEC 62116: 2012

ANEXO III – parte 2, Portaria n.º 357, de 0 1 de agosto de 2014

Test Item Description..... Grid-Connected PV inverter

Trade Mark..... 

Manufacturer..... As applicant

Model / Type Reference..... S5-GC50K

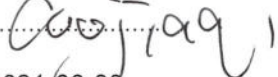
Ratings..... See marking plate

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

TEST REPORT
ABNT NBR 16149
Photovoltaic (PV) systems - Characteristics of the connection interface with the
distribution grid
ABNT NBR 16150
Photovoltaic (PV) systems - Characteristics of the distribution grid connection interface -
Conformity test procedure

Report Reference No..... ERD-CR202108020

Tested by (name + signature)..... Ruyi Pan

Approved by (name + signature)..... 

Date of issue..... 2021-08-30

Laboratory of Tests..... Ginlong technologies Co., Ltd.

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

Test location / address..... Ginlong technologies Co., Ltd.
 No.57 Jintong Road, Binhai, (seafront) industrial Park, Xiangshan,
 Ningbo, Zhejiang, 315712, P.R. China

Applicant's name..... Ginlong technologies Co., Ltd.

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

Testing Specification:

Standard..... ABNT NBR 16149:2013

ABNT NBR 16150:2013

ABNT NBR IEC 62116: 2012

ANEXO III – parte 2, Portaria n.º 357, de 0 1 de agosto de 2014

Test Item Description..... Grid-Connected PV inverter

Trade Mark..... 

Manufacturer..... As applicant

Model / Type Reference..... S5-GC60K

Ratings..... See marking plate

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

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.* Blatt *Sheet*
R 50518312 0001

Ihr Zeichen *Client Reference* Unser Zeichen *Our Reference* Ausstellungsdatum *Date of Issue*
Kun Zhang 01-Kese-50263108 010 18.09.2021 (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 1111244833

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-GC25K S5-GC30K S5-GC33K	14
	: S5-GC36K S5-GC40K	
Vmax PV [Vd.c.]	: 1100	
Isc PV [Ad.c.]	: 50/50/50	
MPP Voltage Range [Vd.c.]	: 200-1000	
Max. Input Current Ad.c.]	: 32/32/32	
Overvoltage Category (OVC)	: II for PV	
Rated Output Volt. [Va.c.]	: 3/N/PE, 220/380V, 230/400V	
Rated Output Freq. [Hz]	: 50/60	
Rated Output Power [W]	: 25000 30000 33000	
	: 36000 40000	
Max. Output Curr. [Aa.c.]	: 41.8 50.2 55.1	
	: 60.2 66.9	
Power Factor	: [-0.80, 0.80]	
Overvoltage Category (OVC)	: III for AC mains	

continued on page 0002

ANLAGE (Appendix): 1.0

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

http://www.tuv.com/safety E-mail: markcheck@tuv.com
Fax: +49 221 806-3935



Zertifizierungsstelle

A. Chen

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.* Blatt *Sheet*
R 50518312 0002

Jhr Zeichen *Client Reference* Unser Zeichen *Our Reference* Ausstellungsdatum *Date of Issue*
Kun Zhang 01-Kese-50263108 010 18.09.2021 (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
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ID 1111244833

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-GC40K-HV S5-GC50K-HV 2

Vmax PV [Vd.c.] : 1100
Isc PV [Ad.c.] : 50/50/50/50
MPP Voltage Range [Vd.c.] : 200-1000
Max. Input Current [Ad.c.] : 32/32/32/32
Overvoltage Category (OVC) : II for PV

Rated Output Volt. [Va.c.] : 3/PE, 480V
Rated Output Freq. [Hz] : 50/60
Rated Output Power [W] : 40000 50000
Max. Output Curr. [Aa.c.] : 53 66.2
Power Factor : [-0.80, 0.80]
Overvoltage Category (OVC) : III for AC mains
continued on page 0003

ANLAGE (Appendix) : 1.0

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
http://www.tuv.com/safety E-mail: markcheck@tuv.com
Fax: +49 221 806-3935



A. Chen

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.* Blatt *Sheet*
R 50518312 0003

Ihr Zeichen *Client Reference* Unser Zeichen *Our Reference* Ausstellungsdatum *Date of Issue*
Kun Zhang 01-Kese-50263108 010 18.09.2021 (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
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Regelmäßige
Produktions-
überwachung

www.tuv.com
ID 1111244833

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-GC15K-LV S5-GC20K-LV 3
S5-GC23K-LV
Vmax PV [Vd.c.] : 1100
Isc PV [Ad.c.] : 50/50/50
MPP Voltage Range [Vd.c.] : 200-1000
Max. Input Current Ad.c.] : 32/32/32
Overvoltage Category (OVC) : II for PV

Rated Output Volt. [Va.c.] : 3/PE, 220V
Rated Output Freq. [Hz] : 50/60
Rated Output Power [W] : 15000 20000
23000
Max. Output Curr. [Aa.c.] : 43.3 57.7
65.0
Power Factor : [-0.80, 0.80]
Overvoltage Category (OVC) : III for AC mains
continued on page 0004

ANLAGE (Appendix) : 1.0

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
http://www.tuv.com/safety E-mail: markcheck@tuv.com
Fax: +49 221 806-3935



A. Chen

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.* Blatt *Sheet*
R 50518312 0004

Ihr Zeichen *Client Reference* Unser Zeichen *Our Reference* Ausstellungsdatum *Date of Issue*
Kun Zhang 01-Kese-50263108 010 18.09.2021 (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*



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-GC25K-AU S5-GC30K-AU S5-GC33K-AU
S5-GC36K-AU S5-GC40K-AU

5

Vmax PV [Vd.c.] : 1100
Isc PV [Ad.c.] : 50/50/50/50
MPP Voltage Range [Vd.c.] : 200-1000
Max. Input Current [Ad.c.] : 32/32/32/32
Overvoltage Category (OVC) : II for PV

Rated Output Volt. [Va.c.] : 3/N/PE, 230V/400V
Rated Output Freq. [Hz] : 50/60
Rated Output Power [W] : 25000 30000 33000
36000 40000
Max. Output Curr. [Aa.c.] : 41.8 50.2 55.1
60.2 66.9

Power Factor : [-0.80, 0.80]
Overvoltage Category (OVC) : III for AC mains
continued on page 0005

ANLAGE (Appendix) : 1.0

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
<http://www.tuv.com/safety> E-mail: markcheck@tuv.com
Fax: +49 221 806-3935



Zertifizierungsstelle

A. Chen

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 50518312

Blatt *Sheet*
0005

Ihr Zeichen <i>Client Reference</i>	Unser Zeichen <i>Our Reference</i>	Ausstellungsdatum <i>Date of Issue</i>
Kun Zhang	01-Kese-50263108 010	18.09.2021 (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.
No.57 Jintong Road, Binhai,
(seafont), Industrial Park,
Xiangshan Ningbo
315712 Zhejiang
P.R. China

Prüfzeichen *Test Mark*



Bauart geprüft
Sicherheit
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Produktions-
überwachung

www.tuv.com
ID 1111244833

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-GC40K-HV-AU S5-GC50K-HV-AU 2

Vmax PV [Vd.c.] : 1100
Isc PV [Ad.c.] : 50/50/50/50
MPP Voltage Range [Vd.c.] : 200-1000
Max. Input Current Ad.c.] : 32/32/32/32
Overvoltage Category (OVC) : II for PV

Rated Output Volt. [Va.c.] : 3/PE, 480V
Rated Output Freq. [Hz] : 50/60
Rated Output Power [W] : 40000 50000
Max. Output Curr. [Aa.c.] : 53.0 66.2
Power Factor : [-0.80, 0.80]

continued on page 0006

Overvoltage Category (OVC) : III for AC mains

ANLAGE (Appendix) : 1.0

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

http://www.tuv.com/safety E-mail: markcheck@tuv.com
Fax: +49 221 806-3935



A. Chen

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 50518312

Blatt *Sheet*
0006

Ihr Zeichen <i>Client Reference</i>	Unser Zeichen <i>Our Reference</i>	Ausstellungsdatum	<i>Date of Issue</i>
Kun Zhang	01-Kese-50263108 010	18.09.2021	(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
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Produktions-
überwachung

www.tuv.com
ID 1111244833

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 0005 continuation

Protective Class : Class I
Ingress Protection (IP) : IP65
Pollution Degree (PD) : PD3
Operating Temperature [°C]: -25 to 60 (>45 derating)
Altitude [m] : 4000
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) : 1.0

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

http://www.tuv.com/safety E-mail: markcheck@tuv.com
Fax: +49 221 806-3935

A. Chen

Ginlong technologies Co., Ltd.
Zhang Kun

Date : 18.09.2021
Our ref. : Kese 01
Your ref.: Kun Zhang

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

Ref : R TÜV-Bauart-Zeichen o. Akkred. Nr.

Type of Equipment : Grid-connected PV Inverter
Model Designation : See Certificate
Certificate No. : R 50518312 0001
Report No. : 50263108 010

Dear Zhang Kun,

The above specified equipment has been tested and found to be in accordance with the relevant requirements.

Please find enclosed your certificate as specified above.

If cancellation of the certificate is submitted by 15 November in a given year, no fee will be charged for the following year.

The certificate is issued with the reservation that the license holder applies all information required in § 6 of the ProdSG related to name and address of the manufacturer or his authorized representative / importer, including their respective contact addresses on the product prior to marketing of the product in the European Economic Area.

With kind regards,

Certification Body


A. Chen

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 50593722 0001

Report No.: 50289396 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-aaK-5G (aa=25,30,33,36,40)
Solis-bbK-HV-5G (bb=40,50)
Solis-ccK-LV-5G (cc=15,20,23)
S5-GCxxK (xx=25,30,33,36,37.5,40)
S5-GCyyK-HV (yy=40,50)
S5-GCzzK-LV (zz=15,20,23)
Serial Number : Engineering Samples
Firmware version : V1
Remark(s) : Refer to report 50289396 004 for details.

Tested acc. to: IEC 61000-3-11:2000
IEC 61000-3-12:2011

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 19.07.2023




A. Chen

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

Zertifikat

Certificate



Zertifikat Nr. Certificate No.
R 50518312

Blatt Sheet
0007

Ihr Zeichen Client Reference
Kun Zhang

Unser Zeichen Our Reference
01-Yudi-50263108 016

Ausstellungsdatum Date of Issue
07.11.2022 (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. 188 Jinkai Road, Binhai Industrial
Park, Xiangshan, Ningbo,
315712 Zhejiang
P.R. China

Prüfzeichen Test Mark



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Produktions-
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www.tuv.com
ID 1111244833

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) [®]

Modification:
As page 0001-0006

- Change 1. Factory address
from: No.57 Jintong Road, Binhai, (seafront)
industrial Park, Xiangshan, Ningbo, zhejiang,
315712, P.R. China
to : No.188 JinKai Road, Binhai Industrial Park,
Xiangshan, Ningbo, Zhejiang, 315712 P.R.China
- Change 2. Ingress Protection (IP)
from: IP65
to : IP66 (AU series are not included)
- Change 3. Isc PV of S5 series
from: 50A
to : 40A

continued on page 0008

ANLAGE (Appendix): 1.4

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.



Zertifizierungsstelle

A. Chen

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg

http://www.tuv.com/safety E-mail: markcheck@tuv.com
Fax: +49 221 806-3935

Zertifikat

Certificate



Zertifikat Nr. Certificate No.
R 50518312

Blatt Sheet
0008

Ihr Zeichen Client Reference
Kun Zhang

Unser Zeichen Our Reference
01-Yudi-50263108 016

Ausstellungsdatum Date of Issue
07.11.2022 (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. 188 Jinkai Road, Binhai Industrial
Park, Xiangshan, Ningbo,
315712 Zhejiang
P.R. China

Prüfzeichen Test Mark



Bauart geprüft
Sicherheit
Regelmäßige
Produktions-
überwachung

www.tuv.com
ID 1111244833

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 0007 continuation

2

Change 4. Add new models	: S5-GC37.5K	S5-GC30K-BE
Vmax PV [Vd.c.]	: 1100	
Isc PV [Ad.c.]	: 40/40/40/40	40/40/40
MPP Voltage Range [Vd.c.]	: 200-1000	
Max. Input Current Ad.c.]	: 32/32/32/32	32/32/32
Overvoltage Category (OVC)	: II for PV	
Rated Output Volt. [Va.c.]	: 3/N/PE, 220/380V, 230/400V	3/N/PE, 230/400V,
Rated Output Freq. [Hz]	: 50/60	50
Rated Output Power [W]	: 37500	30000
Max. Output Curr. [Aa.c.]	: 57.0	43.3
Power Factor	: [-0.80, 0.80]	
Overvoltage Category (OVC)	: III for AC mains	
Change 5. Update CDF to appendix	1.4	

ANLAGE (Appendix): 1.4

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

http://www.tuv.com/safety E-mail: markcheck@tuv.com
Fax: +49 221 806-3935



Zertifizierungsstelle

A. Chen

Zertifikat

Certificate



Zertifikat Nr. Certificate No.
R 50518312

Blatt Sheet
0009

Ihr Zeichen Client Reference
Kun Zhang

Unser Zeichen Our Reference
01-Yudi-50263108 016

Ausstellungsdatum Date of Issue
07.11.2022 (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. 188 Jinkai Road, Binhai Industrial
Park, Xiangshan, Ningbo,
315712 Zhejiang
P.R. China

Prüfzeichen Test Mark



Bauart geprüft
Sicherheit
Regelmäßige
Produktions-
überwachung

www.tuv.com
ID 1111244833

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 0008 continuation

Protective Class : Class I
Ingress Protection (IP) : IP66 (AU series are IP65)
Pollution Degree (PD) : PD3
Operating Temperature [°C]: -25 to 60 (>45 derating)
Altitude [m] : 4000
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) : 1.4

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

http://www.tuv.com/safety E-mail: markcheck@tuv.com
Fax: +49 221 806-3935



Zertifizierungsstelle

A. Chen

Ginlong technologies Co., Ltd.
Zhang Kun

Date : 07.11.2022
Our ref. : Yudi 01
Your ref.: Kun Zhang

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

Ref : R TÜV-Mark Approval

Type of Equipment : Grid-connected PV Inverter
Model Designation : See Certificate
Certificate No. : R 50518312 0007
Report No. : 50263108 016

Dear Zhang Kun,

The above specified equipment has been tested and found to be in accordance with the relevant requirements.

Please find enclosed your certificate as specified above.

If cancellation of the certificate is submitted by 15 November in a given year, no fee will be charged for the following year.

The certificate is issued with the reservation that the license holder applies all information required in § 6 of the ProdSG related to name and address of the manufacturer or his authorized representative / importer, including their respective contact addresses on the product prior to marketing of the product in the European Economic Area. In case you have a change regarding your involved local representative for the certificate, please inform us in due time.

With kind regards,

Certification Body


A. Chen

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
EC Council Directive 2014/30/EU
Electromagnetic Compatibility

Registration No.: AE 50533738 0001

Report No.: CN2108WV 003

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: S5-GC50K S5-GC60K S5-GC60K-HV S5-GC70K-HV
S5-GC25K-LV S5-GC30K-LV S5-GC36K-LV S5-GC37.5K-LV
Serial No.: n.a.
Remark: Refer to test reports CN2108WV 001-003 for details.

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
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.

Date 15.02.2022



Certification Body

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**

Ginlong technologies Co., Ltd.

Date : 15.02.2022
Our ref.: Zhangleoh 01
Your ref.: C. Q. Y.

No.57 Jintong Road, Binhai,
(seafont), 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 50533738 0001
Report No. : CN2108WV 003

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.tuvdotcom.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 50543133 0001

Report No.: CN21UAC3 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-GC50K S5-GC60K S5-GC60K-HV
S5-GC70K-HV S5-GC25K-LV S5-GC30K-LV
S5-GC36K-LV S5-GC37.5K-LV
Serial Number : Engineering Samples
Firmware version : A1
Remark(s) : Refer to report CN21UAC3 002 for details.

Tested acc. to: IEC/TS 61000-3-5:2009
IEC 61000-3-12:2011

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 09.05.2022



Weichun Li

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

C E R T I F I C A T E

of

Conformity

Electromagnetic Compatibility Regulations 2016

(UK SI 2016 No. 1091)



Registration No.: AO 50518348 0001

Test Report No.: 50272117 009

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: S5-GC25K S5-GC30K S5-GC33K
S5-GC36K S5-GC40K S5-GC40K-HV
S5-GC50K-HV S5-GC15K-LV S5-GC20K-LV
Serial No.: n.a.
Remark: Refer to test report 50272117 009 for details.

Tested acc. to: BS EN 61000-6-1:2007
BS EN 61000-6-2:2005
BS EN 61000-6-3:2007+A1
BS EN 61000-6-4:2007+A1

This certificate of conformity is based on an evaluation of a sample of the above mentioned product, technical report and documentation. This certificate does not imply the assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity.



Shanghai, 26.09.2021

Xinhua Lu
Xinhua Lu

TÜV Rheinland (China) Ltd. - No. 01/03B-08, Floor 7 and No. 01/04B-08,
Floor 11, AVIC Building, No. 10B, Central Road East 3rd Ring Road,
Chaoyang District, Beijing P.R. China 100022



The UKCA mark may be used, if all relevant UK Legislations and the UK Declaration of Conformity has been completed.



C E R T I F I C A T E

of

Conformity

Electromagnetic Compatibility Regulations 2016
(UK SI 2016 No. 1091)



Registration No.: AO 50518348 0002

Test Report No.: 50272117 009

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: S5-GC23K-LV S5-GC25K-AU S5-GC30K-AU
S5-GC33K-AU S5-GC36K-AU S5-GC40K-AU
S5-GC40K-HV-AU S5-GC50K-HV-AU
Serial No.: n.a.
Remark: Refer to test report 50272117 009 for details.

Tested acc. to: BS EN 61000-6-1:2007
BS EN 61000-6-2:2005
BS EN 61000-6-3:2007+A1
BS EN 61000-6-4:2007+A1

This certificate of conformity is based on an evaluation of a sample of the above mentioned product, technical report and documentation. This certificate does not imply the assessment of the production of the product and does not permit the use of a TUV Rheinland mark of conformity.

Certification Body

Shanghai, 26.09.2021



TÜV Rheinland (China) Ltd. - No. 01/03B-08, Floor 7 and No. 01/04B-08,
Floor 11, AVIC Building, No. 10B, Central Road East, 3rd Ring Road,
Chaoyang District, Beijing P.R. China 100022



The UKCA mark may be used, if all relevant UK Legislations and the UK Declaration of Conformity has been completed.



Ginlong technologies Co., Ltd.

Date : 26.09.2021
Our ref. : MJ 01
Your ref.: C. Q. Y.

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

Ref : AO Conf. Electromagnetic Com. Reg. 2016

Type of Equipment : Grid-connected PV Inverter
Model Designation : See Certificate
Certificate No. : AO 50518348 0001
Report No. : 50272117 009

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

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CERTIFICATE of Conformity



Registration No.: AK 50567244 0001

Report No.: 50281041 011

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-xxK-5G S5-GCxxK
(xx=25,30,33,36,40)
Solis-yyK-HV-5G S5-GCyyK-HV (yy=40,50)
Solis-zzK-LV-5G S5-GCzzK-LV
(zz=15,20,23) S5-GC37.5K
Serial Number : Engineering Samples
Firmware version: A1
Remark(s) : Refer to report 50281041 011 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.

Certification Body

Date 13.12.2022



Weichun Li

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

CERTIFICATE of Conformity



Registration No.: AK 50562510 0001

Report No.: CN21KSGT 003

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-GC25K-LV S5-GC30K-LV
S5-GC36K-LV S5-GC37.5K-LV
S5-GC50K S5-GC60K
S5-GC60K-HV S5-GC70K-HV
Serial Number : Engineering Samples
Firmware version : VD6
Remark(s) : Refer to report CN21KSGT 003 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.

Certification Body

Date 25.10.2022



Weichun Li

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

CERTIFICATE

of Conformity
Low Voltage Directive 2014/35/EU



Registration No.: AN 50544345 0001

Report No.: CN21CO02 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: S5-GC50K S5-GC60K S5-GC60K-HV
S5-GC70K-HV S5-GC25K-LV S5-GC30K-LV
S5-GC36K-LV S5-GC37.5K-LV

Serial Number : Engineering Sample

Remark(s) : Issued in conjunction with TÜV Rheinland
license R 50503510 0001-0007.

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 Annex I of Council Directive 2014/35/EU, referred to as the Low Voltage Directive. This certificate does not imply assessment of the series-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 Annex IV of the Directive.


Certification Body

Date 16.05.2022




Weichun Li

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

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



Ginlong technologies Co., Ltd.
Qingying Cui

Date : 16.05.2022
Our ref. : zhoudav 01
Your ref.: Qingying Cui

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

Ref : AN Certificate of Conf. Low Voltage D.

Type of Equipment : Grid-connected PV Inverter
Model Designation : See Certificate
Certificate No. : AN 50544345 0001
Report No. : CN21C002 004

Dear Qingying Cui,

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

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CERTIFICATE

of Conformity Low Voltage Directive 2014/35/EU

Registration No.: AN 50503791 0001

Report No.: CN21CO02 001

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-GC50K S5-GC60K S5-GC60K-HV
S5-GC70K-HV S5-GC25K-LV S5-GC30K-LV
S5-GC36K-LV

Serial Number : Engineering Sample
Remark(s) : Issued in conjunction with TÜV Rheinland
license R 50503510 0001-0005.

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 Annex I of Council Directive 2014/35/EU, referred to as the Low Voltage Directive. This certificate does not imply assessment of the series-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 Annex IV of the Directive.



Date 10.05.2021


Bruce Li

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

Ginlong technologies Co., Ltd.
Qingying Cui

Date : 10.05.2021
Our ref. : DJW 01
Your ref.: Qingying Cui

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

Ref : AN Certificate of Conf. Low Voltage D.

Type of Equipment : Grid-connected PV Inverter
Model Designation : See Certificate
Certificate No. : AN 50503791 0001
Report No. : CN21CO02 001

Dear Qingying Cui,

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

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 50503510

Blatt *Sheet*
0001

Ihr Zeichen <i>Client Reference</i>	Unser Zeichen <i>Our Reference</i>	Ausstellungsdatum	<i>Date of Issue</i>
Qingying Cui	01-DJW-CN21CO02 001	10.05.2021	(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 1111239703

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-GC50K S5-GC60K	11
Vmax PV [Vd.c.]	: 1100	
Isc PV [Ad.c.]	: 50*5 50*6	
MPP Voltage Range [Vd.c.]	: 180-1000	
Max. Input Current Ad.c.]	: 32*5 32*6	
Overvoltage Category (OVC)	: II for PV	
Rated Output Volt. [Va.c.]	: 3/N/PE, 380/400	
Rated Output Freq. [Hz]	: 50/60	
Rated Output Power [W]	: 50000 60000	
Max. Output Curr. [Aa.c.]	: 83.6 100.3	
Power Factor	: [-0.80, 0.80]	
Overvoltage Category (OVC)	: III for AC mains	

continued on page 0002

11

ANLAGE (Appendix): 1.0

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



Zertifizierungsstelle

Bruce Li

Bruce Li

Ginlong technologies Co., Ltd.
Qingying Cui

Date : 10.05.2021
Our ref. : DJW 01
Your ref.: Qingying Cui

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

Ref : R TÜV-Bauart-Zeichen o. Akkred. Nr.

Type of Equipment : Grid-connected PV Inverter
Model Designation : See Certificate
Certificate No. : R 50503510 0001
Report No. : CN21CO02 001

Dear Qingying Cui,

The above specified equipment has been tested and found to be in accordance with the relevant requirements.

Please find enclosed your certificate as specified above.

If cancellation of the certificate is submitted by 15 November in a given year, no fee will be charged for the following year.

The certificate is issued with the reservation that the license holder applies all information required in § 6 of the ProdSG related to name and address of the manufacturer or his authorized representative / importer, including their respective contact addresses on the product prior to marketing of the product in the European Economic Area.

With kind regards,

Certification Body


Bruce 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

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 50503510

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0002

Ihr Zeichen <i>Client Reference</i>	Unser Zeichen <i>Our Reference</i>	Ausstellungsdatum	<i>Date of Issue</i>
Qingying Cui	01-DJW-CN21CO02 001	10.05.2021	(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*



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Sicherheit
Regelmäßige
Produktions-
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www.tuv.com
ID 1111239703

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-GC60K-HV S5-GC70K-HV	2
Vmax PV [Vd.c.]	: 1100	
Isc PV [Ad.c.]	: 50*6	
MPP Voltage Range [Vd.c.]	: 180-1000	
Max. Input Current Ad.c.]	: 32*6	
Overvoltage Category (OVC)	: II for PV	
Rated Output Volt. [Va.c.]	: 3/PE, 480	
Rated Output Freq. [Hz]	: 50/60	
Rated Output Power [W]	: 60000 70000	
Max. Output Curr. [Aa.c.]	: 79.4 92.6	
Power Factor	: [-0.80, 0.80]	
Overvoltage Category (OVC)	: III for AC mains	

continued on page 0003

2

ANLAGE (Appendix): 1.0

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



Bruce Li
Bruce Li

Ginlong technologies Co., Ltd.
Qingying Cui

Date : 10.05.2021
Our ref. : DJW 01
Your ref.: Qingying Cui

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

Ref : R TÜV-Bauart-Zeichen o. Akkred. Nr.

Type of Equipment : Grid-connected PV Inverter
Model Designation : See Certificate
Certificate No. : R 50503510 0002
Report No. : CN21CO02 001

Dear Qingying Cui,

The above specified equipment has been tested and found to be in accordance with the relevant requirements.

Please find enclosed your certificate as specified above.

If cancellation of the certificate is submitted by 15 November in a given year, no fee will be charged for the following year.

The certificate is issued with the reservation that the license holder applies all information required in § 6 of the ProdSG related to name and address of the manufacturer or his authorized representative / importer, including their respective contact addresses on the product prior to marketing of the product in the European Economic Area.

With kind regards,

Certification Body



Bruce Li

Enclosure

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Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 50503510

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0003

Ihr Zeichen <i>Client Reference</i>	Unser Zeichen <i>Our Reference</i>	Ausstellungsdatum	<i>Date of Issue</i>
Qingying Cui	01-DJW-CN21CO02 001	10.05.2021	(day/mo/yr)

Genehmigungsinhaber *License Holder*

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

Fertigungsstätte *Manufacturing Plant*

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315712 Zhejiang
P.R. China

Prüfzeichen *Test Mark*



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ID 1111239703

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-GC25K-LV S5-GC30K-LV	2
Vmax PV [Vd.c.]	: 1100	
Isc PV [Ad.c.]	: 50*4	
MPP Voltage Range [Vd.c.]	: 180-1000	
Max. Input Current Ad.c.]	: 32*4	
Overvoltage Category (OVC)	: II for PV	
Rated Output Volt. [Va.c.]	: 3/ (N) /PE, 220	
Rated Output Freq. [Hz]	: 50/60	
Rated Output Power [W]	: 25000 30000	
Max. Output Curr. [Aa.c.]	: 72.2 86.6	
Power Factor	: [-0.80, 0.80]	
Overvoltage Category (OVC)	: III for AC mains	

continued on page 0004

2

ANLAGE (Appendix): 1.0

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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Fax: +49 221 806-3935 http://www.tuv.com/safety



Bruce Li

Ginlong technologies Co., Ltd.
Qingying Cui

Date : 10.05.2021
Our ref. : DJW 01
Your ref.: Qingying Cui

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

Ref : R TÜV-Bauart-Zeichen o. Akkred. Nr.

Type of Equipment : Grid-connected PV Inverter
Model Designation : See Certificate
Certificate No. : R 50503510 0003
Report No. : CN21CO02 001

Dear Qingying Cui,

The above specified equipment has been tested and found to be in accordance with the relevant requirements.

Please find enclosed your certificate as specified above.

If cancellation of the certificate is submitted by 15 November in a given year, no fee will be charged for the following year.

The certificate is issued with the reservation that the license holder applies all information required in § 6 of the ProdSG related to name and address of the manufacturer or his authorized representative / importer, including their respective contact addresses on the product prior to marketing of the product in the European Economic Area.

With kind regards,

Certification Body


Bruce Li

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Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 50503510

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0004

Ihr Zeichen <i>Client Reference</i>	Unser Zeichen <i>Our Reference</i>	Ausstellungsdatum	<i>Date of Issue</i>
Qingying Cui	01-DJW-CN21CO02 001	10.05.2021	(day/mo/yr)

Genehmigungsinhaber *License Holder*
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No.57 Jintong Road, Binhai,
(seafront), Industrial Park,
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315712 Zhejiang
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Fertigungsstätte *Manufacturing Plant*
Ginlong technologies Co., Ltd.
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Prüfzeichen *Test Mark*



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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)

Type Designation	: S5-GC36K-LV	1
Vmax PV [Vd.c.]	: 1100	
Isc PV [Ad.c.]	: 50*4	
MPP Voltage Range [Vd.c.]	: 180-1000	
Max. Input Current Ad.c.]	: 32*4	
Overvoltage Category (OVC)	: II for PV	
Rated Output Volt. [Va.c.]	: 3/(N)/PE, 220	
Rated Output Freq. [Hz]	: 50/60	
Rated Output Power [W]	: 36000	
Max. Output Curr. [Aa.c.]	: 94.5	
Power Factor	: [-0.80, 0.80]	
Overvoltage Category (OVC)	: III for AC mains	

continued on page 0005

1

ANLAGE (Appendix): 1.0

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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Ginlong technologies Co., Ltd.
Qingying Cui

Date : 10.05.2021
Our ref. : DJW 01
Your ref.: Qingying Cui

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

Ref : R TÜV-Bauart-Zeichen o. Akkred. Nr.

Type of Equipment : Grid-connected PV Inverter
Model Designation : See Certificate
Certificate No. : R 50503510 0004
Report No. : CN21CO02 001

Dear Qingying Cui,

The above specified equipment has been tested and found to be in accordance with the relevant requirements.

Please find enclosed your certificate as specified above.

If cancellation of the certificate is submitted by 15 November in a given year, no fee will be charged for the following year.

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With kind regards,

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Bruce Li

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Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 50503510

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0005

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Qingying Cui	01-DJW-CN21CO02 001	10.05.2021	(day/mo/yr)

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Prüfzeichen *Test Mark*



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

Lizenzentgelte - Einheit *License Fee - Unit*

PV-Wechselrichter (Grid-connected PV Inverter)

as page 0004 continuation

Protective Class : Class I
Ingress Protection (IP) : IP66
Pollution Degree (PD) : PD3
Operating Temperature [°C]: -25 to 60 (>45 derating)
Altitude [m] : 4000
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): 1.0

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Ref : R TÜV-Bauart-Zeichen o. Akkred. Nr.

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Model Designation : See Certificate
Certificate No. : R 50503510 0005
Report No. : CN21CO02 001

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