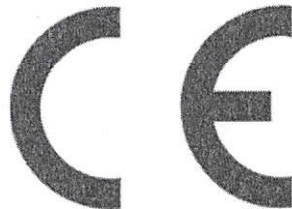


EC DECLARATION OF CONFORMITY

Manufacturer	Name	GINLONG TECHNOLOGIES CO., LTD.
	Address	NO. 57 JINTONG ROAD, BINHAI INDUSTRIAL PARK, XIANGSHAN, NINGBO, ZHEJIANG, 315712, CHINA
Product	Product Name	GRID-TIE PV INVERTER
	Model	Solis-75K-5G, Solis-80K-5G, Solis-100K-HV-5G, Solis-110K-BHV-5G, Solis-100K-5G, Solis-110K-5G, Solis-125K-HV-5G.
Applicable Directives	Low Voltage Directive 2014/35/EU & Electromagnetic compatibility 2014/30/EU	
Applicable standards	EN 61000-6-2:2005, EN 61000-6-4:2007+A1:2011, EN 62109-1:2010, EN 62109-2:2011.	

The product stated above have been achieved and processed to the fullness examination according to EU Low Voltage Directive 2014/35/EU and Electromagnetic compatibility 2014/30/EU, also according to the applicable standards above.

Based on this the manufacturer is eligible to use below CE mark:



Manufacture Stamp

Date and place of issue
Ningbo
9.Sep.2020

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

Pan Rui

Information:

All modification to should be confirmed by Ginlong, otherwise this declaration will no longer valid.

C E R T I F I C A T E

of Conformity



Registration No.: AK 50466741 0001

Report No.: 50368491 001

Holder: Ningbo 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-75K-5G	Solis-80K-5G
	Solis-90K-5G	Solis-100K-5G
	Solis-100K-HV-5G	Solis-110K-5G
	Solis-110K-BHV-5G	Solis-125K-HV-5G
Serial Number	: Engineering Sample	
Firmware Version:	: V1B	
Remark	: Refer to test report 50368491 001 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.



Date 30.04.2020

Weichun Li

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

Ningbo Ginlong technologies Co.,
Ltd.
Zhang Kun

Date : 30/04/2020
Our ref. : YYF 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 50466741 0001
Report No. : 50368491 001

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

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

Registration No.: AE 50450296 0001

Report No.: 50306626 001

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

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

Identification: Solis-50K-5G
Solis-60K-5G Solis-60K-HV-5G
Solis-70K-5G Solis-70K-HV-5G
Solis-75K-5G Solis-80K-5G
Solis-100K-HV-5G Solis-110K-BHV-5G
Serial No.: n.a.
Remark: Refer to test report 50306626 001 for details.

Tested acc. to: EN 61000-6-2:2005
EN 61000-6-4:2007+A1
IEC 61000-6-2:2005
IEC 61000-6-4:2006+A1

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 19.11.2019



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

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

Date : 19.11.2019
Our ref. : QYB 01
Your ref.: Z.K.

Ref : AE Certificate of Conformity EMC

Type of Equipment : Grid-connected PV Inverter
Model Designation : See Certificate
Certificate No. : AE 50450296 0001
Report No. : 50306626 001

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


Xinhua Lu

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



Product Service

Compliance Document

No. D 086470 0048 Rev. 01

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

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

Product: Converter
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. See also notes overleaf.

Test report no.: 704091907605-01

Date, 2019-05-07


(Zhengdong Ma)

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ CERTIFICADO ◆ CERTIFICAT



Product Service

Compliance Document

No. D 086470 0048 Rev. 01

Model(s): Solis-125K-EHV-5G, Solis-100K-EHV-5G.

Parameters:

Max. input voltage:	d.c. 1500 V
MPP voltage range:	d.c. 860-1450V
Max. input current:	d.c. 150A(Solis-125K-EHV-5G), d.c. 120A(Solis-100K-EHV-5G)
Isc PV (absolute maximum):	d.c. 300A(Solis-125K-EHV-5G), d.c. 250A(Solis-100K-EHV-5G),
Rated grid voltage	a.c. 3/PE~ 600V
Rated grid frequency	50/60Hz
Max. AC output active power:	125000 W(Solis-125K-EHV-5G), 100000 W(Solis-100K-EHV-5G)
Max. AC output apparent power	125000 VA(Solis-125K-EHV-5G), 100000 VA(Solis-100K-EHV-5G)
Max. continuous output current:	a.c. 120 A(Solis-125K-EHV-5G), a.c. 96 A(Solis-100K-EHV-5G)
Adjustable cos(Φ):	-0.8...1...+0.8
Protection class	I
Degree of protection	IP65
Overvoltage category	II(PV), III(MAINS)
Ambient temperature	-25 ... +60°C

Tested according to:

IEC 61727:2004
 IEC 62116:2014
 IEC 61683:1999
 EN 50530:2010/A1:2013
 IEC 60068-2-1:2007
 IEC 60068-2-2:2007
 IEC 60068-2-14:2009
 IEC 60068-2-30:2005
 IEC 60068-2-27:2008
 IEC 60068-2-64:2008

Handwritten signature

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證書 ◆ CERTIFICADO ◆ CERTIFICAT

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 50456314

Blatt *Sheet*
0001

Ihr Zeichen *Client Reference*
Kun Zhang

Unser Zeichen *Our Reference*
01-DJW-50329288 001

Ausstellungsdatum *Date of Issue*
30.12.2019
(day/mo/yr)

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

Fertigungsstätte *Manufacturing Plant*
Refer to latest revision
of the annex list of factories

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	: Solis-50K-5G	9
	Solis-60K-5G	
Vmax PV [Vd.c.]	: 1100	
Isc PV [Ad.c.]	: 40*5	40*6
MPP Voltage Range[Vd.c.]	: 180-1000	
Max. Input Current Ad.c.]	: 26*5	26*6
Overvoltage Category (OVC)	: II for PV	
Rated Output Volt.[Va.c.]	: 3~ 230	
Rated Output Freq.[Hz]	: 50/60	
Rated Output Power[kW]	: 50	60
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

9

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



A. Chen

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 50456314

Blatt *Sheet*
0002

Ihr Zeichen *Client Reference*
Kun Zhang

Unser Zeichen *Our Reference*
01-DJW-50329288 001

Ausstellungsdatum
30.12.2019

Date of Issue
(day/mo/yr)

Genehmigungsinhaber *License Holder*

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

Fertigungsstätte *Manufacturing Plant*

Refer to latest revision
of the annex list of factories

Prüfzeichen *Test Mark*



Bauart geprüft
Sicherheit
Regelmäßige
Produktions-
überwachung

www.tuv.com
ID 141907145

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 0001 continuation

3

Type Designation	:	Solis-70K-5G		
		Solis-75K-5G		
		Solis-80K-5G		
Vmax PV [Vd.c.]	:	1100		
Isc PV [Ad.c.]	:	40*7	40*9	40*9
MPP Voltage Range [Vd.c.]	:	180-1000		
Max. Input Current Ad.c.]	:	26*7	26*9	26*9
Overvoltage Category (OVC):		II for PV		
Rated Output Volt. [Va.c.]	:	3~ 230		
Rated Output Freq. [Hz]	:	50/60		
Rated Output Power [kW]	:	70	75	80
Max. Output Curr. [Aa.c.]	:	117	125.3	133.7
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

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



A. Chen

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 50456314

Blatt *Sheet*
0003

Ihr Zeichen *Client Reference*
Kun Zhang

Unser Zeichen *Our Reference*
01-DJW-50329288 001

Ausstellungsdatum *Date of Issue*
30.12.2019 (day/mo/yr)

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

Fertigungsstätte *Manufacturing Plant*
Refer to latest revision
of the annex list of factories

Prüfzeichen *Test Mark*



Bauart geprüft
Sicherheit
Regelmäßige
Produktions-
überwachung

www.tuv.com
ID 1419077145

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 0002 continuation

4

Type Designation	:	Solis-60K-HV-5G			
		Solis-70K-HV-5G			
		Solis-100K-HV-5G			
		Solis-110K-BHV-5G			
Isc PV [Ad.c.]	:	40*6	40*7	40*10	40*10
Vmax PV [Vd.c.]	:	1100			
Max. Input Current Ad.c.]	:	26*6	26*7	26*10	26*10
MPP Voltage Range [Vd.c.]	:	180-1000			
Overvoltage Category (OVC)	:	II for PV			
Rated Output Volt. [Va.c.]	:	3~277	3~277	3~277	3~312
Rated Output Power [kW]	:	60	70	100	110
Rated Output Freq. [Hz]	:	50/60			
Max. Output Curr. [Aa.c.]	:	79.4	92.6	132.3	129.4
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

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



A. Chen
A. Chen

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 50456314

Blatt *Sheet*
0004

Ihr Zeichen *Client Reference*
Kun Zhang

Unser Zeichen *Our Reference*
01-DJW-50329288 001

Ausstellungsdatum
30.12.2019

Date of Issue
(day/mo/yr)

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

Fertigungsstätte *Manufacturing Plant*
Refer to latest revision
of the annex list of factories

Prüfzeichen *Test Mark*



Bauart geprüft
Sicherheit
Regelmäßige
Produktions-
überwachung

www.tuv.com
ID 1419077145

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 0003 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

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



A. Chen

**Anlage Fertigungsstättenliste
/Attachment List of Factories**



R 50456314 0001

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

Dieser Anhang ersetzt den Vorgänger vom/
This annex replaces the previous annex dated

Datum / Date 30.12.2019




A. Chen

Ningbo Ginlong technologies Co.,
Ltd.
Zhang Kun

Date : 31.12.2019
Our ref. : DJW 01
Your ref.: Kun Zhang

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

Ref : R TÜV-Mark Approval

Type of Equipment : Grid-connected PV Inverter
Model Designation : See Certificate
Certificate No. : R 50456314 0001
Report No. : 50329288 001

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.tuvdotcom.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 Low Voltage Directive 2014/35/EU

Registration No.: AN 50456325 0001

Report No.: 50329288 001

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

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

Identification: Type Designation: Solis-50K-5G Solis-60K-5G Solis-70K-5G
Solis-75K-5G Solis-80K-5G
Solis-60K-HV-5G Solis-70K-HV-5G
Solis-100K-HV-5G Solis-110K-BHV-5G
Serial Number : Engineering Sample
Remark(s) : Issued in conjunction with TÜV Rheinland
license R 50456314 0001-0004.

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 30.12.2019

A handwritten signature in black ink, appearing to read 'A. Chen', written over a horizontal line.
A. Chen

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

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

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

Date : 31.12.2019
Our ref. : DJW 01
Your ref.: zhang Kun

Ref : AN Certificate of Conf. Low Voltage D.

Type of Equipment : Grid-connected PV Inverter
Model Designation : See Certificate
Certificate No. : AN 50456325 0001
Report No. : 50329288 001

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


A. Chen

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