

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



Ningbo Ginlong technologies Co.,
Ltd.
Zhang Kun

Date : 18.05.2017
Our ref. : DJW 01
Your ref.: 52109827

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 50379026 0001
Report No. : 50081618 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


Weichun Li

Enclosure

证书的详细信息请登陆www.certipedia.com查询,或拨打我司客服热线800 999 3668 / 400 883 1300咨询

TÜV Rheinland (China) Ltd.
莱茵检测认证服务(中国)有限公司

Unit 707, AVIC Bldg., No. 10B,
Central Road, East 3rd Ring
Road, Chaoyang District,
Beijing, 100022, P.R.China

北京市朝阳区东三环中路乙10号
艾维克大厦707室
邮编: 100022

Tel: (8610)6566 6660
Fax: (8610)6566 6667
e-mail: info@bj.chn.tuv.com
Internet: <http://www.chn.tuv.com>

Zertifikat**Certificate**

Zertifikat Nr. *Certificate No.*
R 50379026

Blatt *Sheet*
0001

Ihr Zeichen <i>Client Reference</i>	Unser Zeichen <i>Our Reference</i>	Ausstellungsdatum <i>Date of Issue</i>	<i>(day/mo/yr)</i>
52109827	01-DJW-50081618 001	18.05.2017	

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

Prüfzeichen *Test Mark*

Bauart geprüft
Sicherheit
Regelmäßige
Produktions-
überwachung

www.tuv.com
ID 1419047345

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-mini-700-4G
Solis-mini-1000-4G

Vmax PV [Vd.c.] : 600
Isc PV [Ad.c.] : 17.2
MPP Voltage Range [Vd.c.] : 66-500/94-400
Max. Input Current [Ad.c.] : 11
Overvoltage Category (OVC) : II for PV

Rated Output Voltage [Va.c.] : 230V
Rated Output Frequency [Hz] : 50/60
Rated Output Power [kW] : 700/1000
Max. Output Current [Aa.c.] : 4.4/5.2
Power Factor : [-0.80, 0.80]
Overvoltage Category (OVC) : III for AC mains

continued on page 0002

ANLAGE (Appendix): 1

*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 50379026 Blatt *Sheet*
0002

Ihr Zeichen <i>Client Reference</i>	Unser Zeichen <i>Our Reference</i>	Ausstellungsdatum <i>Date of Issue</i>	<i>(day/mo/yr)</i>
52109827	01-DJW-50081618 001	18.05.2017	

Genehmigungsinhaber <i>License Holder</i>	Fertigungsstätte <i>Manufacturing Plant</i>
Ningbo Ginlong technologies Co., Ltd. No.57 Jintong Road, Binhai, (seafront) industrial Park, Xiangshan Ningbo, Zhejiang 315712 P.R. China	Ningbo Ginlong technologies Co., Ltd. No.57 Jintong Road, Binhai, (seafront) industrial Park, Xiangshan Ningbo, Zhejiang 315712 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)

Continuation
Type Designation : Solis-mini-1500-4G
Solis-mini-2000-4G

Vmax PV [Vd.c.] : 600
Isc PV [Ad.c.] : 17.2
MPP Voltage Range[Vd.c.] : 141-400/187-400
Max. Input Current[Ad.c.] : 11
Overvoltage Category (OVC) : II for PV

Rated Output Voltage[Va.c.] : 230V
Rated Output Frequency[Hz] : 50/60
Rated Output Power[kW] : 1500/2000
Max. Output Current[Aa.c.] : 8.1/9.1
Power Factor : [-0.80, 0.80]
Overvoltage Category (OVC) : III for AC mains

continued on page 0003

ANLAGE (Appendix): 1

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Weichun Li

Zertifikat**Certificate**

Zertifikat Nr. *Certificate No.* R 50379026
 Blatt *Sheet* 0003

Ihr Zeichen <i>Client Reference</i>	Unser Zeichen <i>Our Reference</i>	Ausstellungsdatum <i>Date of Issue</i>	<i>(day/mo/yr)</i>
52109827	01-DJW-50081618 001	18.05.2017	

Genehmigungsinhaber <i>License Holder</i>	Fertigungsstätte <i>Manufacturing Plant</i>
Ningbo Ginlong technologies Co., Ltd. No.57 Jintong Road, Binhai, (seafront) industrial Park, Xiangshan Ningbo, Zhejiang 315712 P.R. China	Ningbo Ginlong technologies Co., Ltd. No.57 Jintong Road, Binhai, (seafront) industrial Park, Xiangshan Ningbo, Zhejiang 315712 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)**

Continuation
 Type Designation : Solis-mini-2500-4G
 Solis-mini-3000-4G

Vmax PV [Vd.c.] : 600
 Isc PV [Ad.c.] : 17.2
 MPP Voltage Range [Vd.c.] : 234-400/281-500
 Max. Input Current [Ad.c.] : 11
 Overvoltage Category (OVC) : II for PV

Rated Output Voltage [Va.c.] : 230V
 Rated Output Frequency [Hz] : 50/60
 Rated Output Power [kW] : 2500/3000
 Max. Output Current [Aa.c.] : 11.4/13.6
 Power Factor : [-0.80, 0.80]
 Overvoltage Category (OVC) : III for AC mains

continued on page 0004

ANLAGE (Appendix): 1

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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Zertifikat**Certificate**

Zertifikat Nr. *Certificate No.*
R 50379026 Blatt *Sheet*
0004

Ihr Zeichen <i>Client Reference</i>	Unser Zeichen <i>Our Reference</i>	Ausstellungsdatum <i>Date of Issue</i>	<i>(day/mo/yr)</i>
52109827	01-DJW-50081618 001	18.05.2017	

Genehmigungsinhaber <i>License Holder</i>	Fertigungsstätte <i>Manufacturing Plant</i>
Ningbo Ginlong technologies Co., Ltd. No.57 Jintong Road, Binhai, (seafront) industrial Park, Xiangshan Ningbo, Zhejiang 315712 P.R. China	Ningbo Ginlong technologies Co., Ltd. No.57 Jintong Road, Binhai, (seafront) industrial Park, Xiangshan Ningbo, Zhejiang 315712 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)

Continuation
Type Designation : Solis-mini-3600-4G

Vmax PV [Vd.c.] : 600
Isc PV [Ad.c.] : 17.2
MPP Voltage Range [Vd.c.] : 337-500
Max. Input Current [Ad.c.] : 11
Overvoltage Category (OVC) : II for PV

Rated Output Voltage [Va.c.] : 230V
Rated Output Frequency [Hz] : 50/60
Rated Output Power [kW] : 3600
Max. Output Current [Aa.c.] : 16
Power Factor : [-0.80, 0.80]
Overvoltage Category (OVC) : III for AC mains

continued on page 0005

ANLAGE (Appendix): 1

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.

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Zertifikat**Certificate**

Zertifikat Nr. *Certificate No.* R 50379026
 Blatt *Sheet* 0005

Ihr Zeichen <i>Client Reference</i>	Unser Zeichen <i>Our Reference</i>	Ausstellungsdatum <i>Date of Issue</i>
52109827	01-DJW-50081618 001	18.05.2017 (day/mo/yr)

Genehmigungsinhaber <i>License Holder</i>	Fertigungsstätte <i>Manufacturing Plant</i>
Ningbo Ginlong technologies Co., Ltd. No.57 Jintong Road, Binhai, (seafront) industrial Park, Xiangshan Ningbo, Zhejiang 315712 P.R. China	Ningbo Ginlong technologies Co., Ltd. No.57 Jintong Road, Binhai, (seafront) industrial Park, Xiangshan Ningbo, Zhejiang 315712 P.R. China



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 0004
 Continuation

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Protective Class : I
 Enclosure Protection (IP) : IP65
 Pollution degree (PD) : PD 2(inside), PD3(outside)
 Altitude [m] : 4000
 Operating Temperature [°C] : -25 to 60 (> 45 derating)
 Type of Inverter : Non-isolated

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

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ANLAGE (Appendix) : 1

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.

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



Weichun Li

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



Ningbo Ginlong technologies Co.,
Ltd.
Zhang Kun
-

Date : 18.05.2017
Our ref. : DJW 01
Your ref.: 52109827

No.57 Jintong Road, Binhai,
(seafront)
industrial Park, Xiangshan
Ningbo, Zhejiang 315712
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 50379081 0001
Report No. : 50081618 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

TÜV Rheinland (China) Ltd.
莱茵检测认证服务(中国)有限公司

Unit 707, AVIC Bldg., No. 10B,
Central Road, East 3rd Ring
Road, Chaoyang District,
Beijing, 100022, P.R.China

北京市朝阳区东三环中路乙10号
艾维克大厦707室
邮编: 100022

Tel: (8610)6566 6660
Fax: (8610)6566 6667
e-mail: info@bj.chn.tuv.com
Internet: <http://www.chn.tuv.com>

C E R T I F I C A T E



of Conformity
Low Voltage Directive 2014/35/EU

Registration No.: AN 50379081 0001

Report No.: 50081618 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-mini-700-4G	Solis-mini-1000-4G
	Solis-mini-1500-4G	Solis-mini-2000-4G
	Solis-mini-2500-4G	Solis-mini-3000-4G
	Solis-mini-3600-4G	
Serial Number :	A000534491-001	
Remark :	Issued in conjunction with TÜV Rheinland license R 50379026 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.

Certification Body



Date 18.05.2017


Weichun Li

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

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 50379026

Blatt *Sheet*
0007

Ihr Zeichen *Client Reference*
52109827

Unser Zeichen *Our Reference*
01-DJW-50081618 009

Ausstellungsdatum *Date of Issue*
14.08.2020 (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
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überwachung

www.tuv.com
ID 1419047345

Geprüft nach *Tested acc. to*

IEC 62109-1:2010
IEC 62109-2:2011
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 0005 Continuation

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Changes:

1. Change License holder's information from "Ningbo Ginlong technologies Co., Ltd." to "Ginlong technologies Co., Ltd."
2. Ratings modification:
For model Solis-mini-700-4G, Solis-mini-1000-4G and Solis-mini-1500-4G: MPP Voltage Range modify to 50-500Vd.c;
For model Solis-mini-2000-4G: MPP Voltage Range modify to 80-500Vd.c, Max. output current modify to 10.5A;
For model Solis-mini-2500-4G: MPP Voltage Range modify to 80-500Vd.c, Max. output current modify to 13.3A;
For model Solis-mini-3000-4G: MPP Voltage Range modify to 80-500Vd.c, Max. output current modify to 15.7A;
For model Solis-mini-3600-4G: Isc PV modify to 30A, Max. Input Current modify to 19A, MPP Voltage Range modify to 80-500Vd.c.

6

ANLAGE (Appendix): 1

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