

Compliance Document

No. D 086470 0114 Rev. 00

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

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

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

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

Test report no.: 64772228006301

Date, 2022-06-08



(Tony Liu)

Compliance Document

No. D 086470 0114 Rev. 00

Model(s):

S6-GR1P3.6K-M, S6-GR1P3K-M, S6-GR1P2.5K-M, S6-GR1P2K-M, S6-GR1P1.5K-M, S6-GR1P1K-M, S6-GR1P0.7K-M, S6-GR1P3.6K-M-R, S6-GR1P3K-M-R, S6-GR1P2.5K-M-R, S6-GR1P2K-M-R, S6-GR1P1.5K-M-R, S6-GR1P1K-M-R, S6-GR1P0.7K-M-R

Trade name:

solis



Compliance Document

No. D 086470 0114 Rev. 00

Parameters:

Model:	S6-GR1P0.7K-M S6-GR1P0.7K-M-R	S6-GR1P1K-M S6-GR1P1K-M-R	S6-GR1P1.5K-M S6-GR1P1.5K-M-R
INPUT			
V _{MAX} PV [Vdc]	600		
I _{SC} PV[A]	22		
MPP Voltage Range V _{MPP} [Vdc]	50-500		
Max. Input Current I _{max} [A]	14		
MPP Full Power Voltage Range [Vdc]	66-500	94-500	141-500
Start PV Voltage [Vdc]	60		
Backfeed Current [A]	0		
Overvoltage Category (OVC)	II		
OUTPUT			
Rated Output Voltage U _r [Vac]	1/N/PE, 220/230V		
Normal Operating Voltage Range U _n [Vac]	176-253V/184-264V		
Rated Output Frequency F _{NETZ} [Hz]	50/60		
Normal Operating Frequency Range F _n [Hz]	45-55Hz/55-65Hz		
Rated Output Power P _E [W]	700	1000	1500
Max. Output Power P _{Emax} [W]	800	1100	1700
Max. Output Current I _{max} [A]	4.4	5.2	8.1
Power Factor cosφ [λ]	-0.8, 0.8		
Standby Power Consumption [W]	< 1		
Night Power Consumption [W]	< 1		
THD [V / I] (100% full power)	< 3%		
Acoustic Noise [dB]	< 20		
Overvoltage Category (OVC)	III		
SYSTEM			
Protective Class	I		
Enclosure Protection (IP)	IP66		
Operating Temperature Range [°C]	-25 to +60		
Pollution degree (PD)	PD2		
Altitude [m]	2000		
Array Insulation Resistance Detection [Ω]	200K		
The accuracy of resistance measurement [%]	< 10		

Model:	S6-GR1P2K-M S6-GR1P2K-M-R	S6-GR1P2.5K-M S6-GR1P2.5K-M-R
INPUT		
V _{MAX} PV [Vdc]	600	
I _{SC} PV[A]	22	
MPP Voltage Range V _{MPP} [Vdc]	80-500	
Max. Input Current I _{max} [A]	14	
MPP Full Power Voltage Range [Vdc]	187-500	234-500
Start PV Voltage [Vdc]	90	
Backfeed Current [A]	0	
Overvoltage Category (OVC)	II	
OUTPUT		
Rated Output Voltage U _r [Vac]	1/N/PE, 220/230V	
Normal Operating Voltage Range U _n [Vac]	176-253V/184-264V	
Rated Output Frequency F _{NETZ} [Hz]	50/60	
Normal Operating Frequency Range F _n [Hz]	45-55Hz/55-65Hz	
Rated Output Power P _E [W]	2000	2500
Max. Output Power P _{Emax} [W]	2200	2800
Max. Output Current I _{max} [A]	10.5	13.3

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Power Factor $\cos\phi$ [λ]	-0.8, 0.8
Standby Power Consumption [W]	< 1
Night Power Consumption [W]	< 1
THD [V / I] (100% full power)	< 3%
Acoustic Noise [dB]	< 20
Overvoltage Category (OVC)	III
SYSTEM	
Protective Class	I
Enclosure Protection (IP)	IP66
Operating Temperature Range [°C]	-25 to +60
Pollution degree (PD)	PD2
Altitude [m]	2000
Array Insulation Resistance Detection [Ω]	200K
The accuracy of resistance measurement [%]	< 10

Model:	S6-GR1P3K-M S6-GR1P3K-M-R	S6-GR1P3.6K-M S6-GR1P3.6K-M-R
INPUT		
V_{MAX} PV [Vdc]	600	
I_{SC} PV[A]	22	30
MPP Voltage Range V_{MPP} [Vdc]	80-500	
Max. Input Current I_{max} [A]	14	19
MPP Full Power Voltage Range [Vdc]	281-500	195-500
Start PV Voltage [Vdc]	90	
Backfeed Current [A]	0	
Overvoltage Category (OVC)	II	
OUTPUT		
Rated Output Voltage U_r [Vac]	1/N/PE, 220/230V	
Normal Operating Voltage Range U_n [Vac]	176-253V/184-264V	
Rated Output Frequency F_{NETZ} [Hz]	50/60	
Normal Operating Frequency Range F_n [Hz]	45-55Hz/55-65Hz	
Rated Output Power P_E [W]	3000	3600
Max. Output Power $P_{E_{max}}$ [W]	3300	3600
Max. Output Current I_{max} [A]	15.7	16
Power Factor $\cos\phi$ [λ]	-0.8, 0.8	
Standby Power Consumption [W]	< 1	
Night Power Consumption [W]	< 1	
THD [V / I] (100% full power)	< 3%	
Acoustic Noise [dB]	< 20	
Overvoltage Category (OVC)	III	
SYSTEM		
Protective Class	I	
Enclosure Protection (IP)	IP66	
Operating Temperature Range [°C]	-25 to +60	
Pollution degree (PD)	PD2	
Altitude [m]	2000	
Array Insulation Resistance Detection [Ω]	200K	
The accuracy of resistance measurement [%]	< 10	

**Tested
according to:**

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

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

Registration No.: AE 50555891 0001

Report No.: 50084876 012

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

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

Identification: See type designations in attachment 1.1
Serial No.: n.a.
Remark: Refer to test reports 50084876 001-012 for details.
Continued on page 0002.

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

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical Report and documentation are at the Licence Holder's disposal. This is to certify that the tested sample is in conformity with all provisions of Annex I of Council Directive 2014/30/EU. This certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate in connection with the EC declaration of conformity according to the a.m. Directive.

Certification Body

Date 19.08.2022



Xinhua Lu

Xinhua Lu

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

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

Registration No.: AE 50555891 0002

Report No.: 50084876 012

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

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

Identification: See type designations in attachment 1.1
Serial No.: n.a.
Remark: Refer to test reports 50084876 001-012 for details.
Refer to page 0001.

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

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical Report and documentation are at the Licence Holder's disposal. This is to certify that the tested sample is in conformity with all provisions of Annex I of Council Directive 2014/30/EU. This certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate in connection with the EC declaration of conformity according to the a.m. Directive.

Date 19.08.2022



Certification Body

Xinhua Lu

Xinhua Lu

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

TÜV Rheinland
LGA Products GmbH
Tillystraße 2, 90431 Nürnberg

**Attachment to
Registration No.:** AE 50555891 0001
Report No.: 50084876 012

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

Scope:

type designation:		
Solis-mini-700-4G	S5-GR1P0.7K-M	S6-GR1P0.7K-M
S6-GR1P0.7K-M-R	Solis-mini-1000-4G	S5-GR1P1K-M
S6-GR1P1K-M	S6-GR1P1K-M-R	Solis-mini-1500-4G
S5-GR1P1.5K-M	S6-GR1P1.5K-M	S6-GR1P1.5K-M-R
Solis-mini-2000-4G	S5-GR1P2K-M	S6-GR1P2K-M
S6-GR1P2K-M-R	Solis-mini-2500-4G	S5-GR1P2.5K-M
S6-GR1P2.5K-M	S6-GR1P2.5K-M-R	Solis-mini-3000-4G
S5-GR1P3K-M	S6-GR1P3K-M	S6-GR1P3K-M-R
Solis-mini-3600-4G	S5-GR1P3.6K-M	S6-GR1P3.6K-M
S6-GR1P3.6K-M-R	S6-GR1P1K-M-LV	
S6-GR1P0.6K-M		



Date: 2022-08-19

Xinhua Lu

CERTIFICATE

of Conformity

Low Voltage Directive (EU) 2014/35

Registration No.: AN 50636102 0001
Report No.: CN21SFB3 008
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)

Type designation listed on the next page

This certificate of conformity is based on an evaluation of a sample of the above-mentioned product. Technical Report and documentation are at the License Holder's disposal. This is to certify that the tested sample is in conformity with Annex I of Council Directive (EU) 2014/35, 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: 2024-06-25

Certification Body



Dean Cao



TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

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

CERTIFICATE

of Conformity

Low Voltage Directive (EU) 2014/35

Registration No.: AN 50636102 0001

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

Identification: Type Designation
S6-GR1P3.6K-M , S6-GR1P3K-M , S6-GR1P2.5K-M ,
S6-GR1P2K-M , S6-GR1P1.5K-M , S6-GR1P1K-M ,
S6-GR1P0.7K-M , S6-GR1P0.6K-M , S6-GR1P3.6K-M-R ,
S6-GR1P3K-M-R , S6-GR1P2.5K-M-R , S6-GR1P2K-M-R ,
S6-GR1P1.5K-M-R , S6-GR1P1K-M-R , S6-GR1P0.7K-M-R ,
S6-GR1P3.6K-M-B , S6-GR1P3K-M-B , S6-GR1P2.5K-M-B ,
S6-GR1P2K-M-B , S6-GR1P1.5K-M-B , S6-GR1P1K-M-B ,
S6-GR1P0.7K-M-B

Serial Number : 2222233333

Remark(s) : Issued in conjunction with TÜV
Rheinland license R 50516877 0001-0012.



TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

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

Zertifikat

Certificate



Zertifikat Nr. Certificate No.
R 50516877

Blatt Sheet
0012

Ihr Zeichen Client Reference
Qingying Cui

Unser Zeichen Our Reference
01-DY-CN21SFB3 008

Ausstellungsdatum Date of Issue
25.06.2024 (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 1111244287

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 R 50516877 0011

Modification:

Changed the VMAX PV of S6-GR1P3.6K-M , S6-GR1P3K-M ,
S6-GR1P2.5K-M , S6-GR1P2K-M , S6-GR1P1.5K-M , S6-GR1P1K-M ,
S6-GR1P0.7K-M , S6-GR1P0.6K-M from 600V to 550V

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.



Zertifizierungsstelle

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg

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

Dean Cao



中国认可
国际互认
检测
TESTING
CNAS L2291



Verification of Conformity

NO.: ENS2405310381P00201C

The following product has been tested by us with the listed standards.

Applicant : Ginlong Technologies Co.,Ltd.
Address : No.57 Jintong Road,Binhai Industrial Park,Xiangshan
Ningbo,Zhejiang 315712 P.R.China
Manufacturer : Ginlong Technologies Co.,Ltd.
Address : No.57 Jintong Road,Binhai Industrial Park,Xiangshan
Ningbo,Zhejiang 315712 P.R.China
Trade Mark : Solis
EUT : Grid-connected PV Inverter
M/N : S6-GR1P1K-M, S6-GR1P2K-M, S6-GR1P3K-M
Technical Data : Refer to test report ENS2405310381P00201R
Test Standards : IEC 62109-1:2010, EN 62109-1:2010,
IEC 62109-2:2011, EN 62109-2:2011,
Version : Ver.1.0



CERTIFICATE

William Guo

(Manager)




June 21, 2024

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

EMTEK (Shenzhen) Co., Ltd.

Add: Building 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China [Http://www.emtek.com.cn](http://www.emtek.com.cn) E-mail: cs.rep@emtek.com.cn



Prüfbericht-Nr.: <i>Test Report No.:</i>	CN21IAGM 002	Auftrags-Nr.: <i>Order No.:</i>	244351281	Seite 1 von 31 <i>Page 1 of 31</i>
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	2177511	Auftragsdatum: <i>Order date:</i>	04.08.2021	
Auftraggeber: <i>Client:</i>	Ginlong Technologies Co., Ltd. No.57 Jintong Road, Binhai, (seafont) industrial Park, Xiangshan, Ningbo, zhejiang, 315712, P.R. China			
Prüfgegenstand: <i>Test item:</i>	Grid-Connected PV inverter			
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	S6-GR1P3K-M			
Auftrags-Inhalt: <i>Order content:</i>	Test report			
Prüfgrundlage: <i>Test specification:</i>	ABNT NBR 16149:2013 ABNT NBR 16150:2013 ABNT NBR IEC 62116: 2012 ANEXO III – parte 2, Portaria n.º 357, de 01 de agosto de 2014			
Wareneingangsdatum: <i>Date of receipt:</i>	05.08.2021			
Prüfmuster-Nr.: <i>Test sample No.:</i>	A003107750-002			
Prüfzeitraum: <i>Testing period:</i>	05.08.2021 – 15.08.2021			
Ort der Prüfung: <i>Place of testing:</i>	TÜV Rheinland (Shanghai) Co.,Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shanghai) Co.,Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von / tested by:		kontrolliert von / reviewed by:		
15.08.2021	Phillip Liu / PE		15.08.2021	Tobias Yang / Review er
Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>
				
Sonstiges / Other: NA				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet				
Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m test specification(s) F(ail) = failed a.m test specification(s) N/A = not applicable N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				