

# C E R T I F I C A T E

of Conformity



Registration No.: AK 50403833 0001

Report No.: 50132564 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-1P5K-4G Solis-1P4K-4G  
Serial Number : Engineering Samples  
Firmware version : V13  
Remark(s) : Refer to report 50132564 001 for details.

**Tested acc. to:** IEC 61683:1999  
IEC 60068-2-1:2007  
IEC 60068-2-2:2007  
IEC 60068-2-14:2009  
IEC 60068-2-27:2008  
IEC 60068-2-30:2005  
IEC 60068-2-64:2008

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 29.03.2018

  
Weichun Li

**TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg**

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



Registration No.: AK 50403828 0001

Report No.: 50132563 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-1P5K-4G Solis-1P4K-4G  
Serial Number : Engineering Samples  
Firmware version : V13  
Remark(s) : Refer to report 50132563 001 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 the TÜV Rheinland mark of conformity.



Date 29.03.2018

  
Weichun Li

**TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg**



Product Service

# CERTIFICATE

No. B 17 04 86470 019

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

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



**Certification Mark:**



**Product:**

**Converter  
 Grid-Tied Inverter**

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

**Test report no.:** 704091623704-00

**Valid until:** 2022-03-31

**Date,** 2017-04-06  
 Page 1 of 3

*Zhengdong Ma*  
 (Zhengdong Ma)



**CERTIFICATE**

No. B 17 04 86470 019

**Model(s):**

Solis-1P5K-4G, Solis-1P4.6K-4G, Solis-1P4K-4G,  
 Solis-1P3.6K-4G, Solis-1P3K-4G, Solis-1P2.5K-4G,  
 Solis-1P2K-4G, Solis-1P1.5K-4G, Solis-1P1K-4G,  
 URE-1P5K-4G, URE-1P4.6K-4G, URE-1P4K-4G,  
 URE-1P3.6K-4G, URE-1P3K-4G, URE-1P2.5K-4G,  
 URE-1P2K-4G, URE-1P1.5K-4G, URE-1P1K-4G,  
 GCI-1P5K-4G, GCI-1P4.6K-4G, GCI-1P4K-4G,  
 GCI-1P3.6K-4G, GCI-1P3K-4G, GCI-1P2.5K-4G,  
 GCI-1P2K-4G, GCI-1P1.5K-4G, GCI-1P1K-4G,  
 Mate-5K-4G, Mate-4.6K-4G, Mate-4K-4G,  
 Mate-3.6K-4G, Mate-3K-4G, Mate-2.5K-4G,  
 Mate-2K-4G, Mate-1.5K-4G, Mate-1K-4G,  
 Solis-1P3K-4G-ST, URE-1P3K-4G-ST,  
 GCI-1P3K-4G-ST, Mate-3K-4G-ST.

**Parameters:**

Max. input voltage:	see attachment
MPP voltage range:	See attachment
Max. input current:	See attachment
Isc PV (absolute maximum):	See attachment
Rated grid voltage:	a.c. 230/240V
Rated grid frequency:	50/60Hz
Max. AC output active power:	See attachment
Max. AC output apparent power:	See attachment
Max. continuous output current:	See attachment
Adjustable cos( $\phi$ ):	0.8...1...0.8
Protection class:	I
Degree of protection:	IP65
Overvoltage category:	III(MAINS), II(PV)
Ambient temperature:	-25 ... +60°C

Other ratings refer to attachment.

**Tested according to:**

IEC 62109-1(ed.1)  
 IEC 62109-2(ed.1)  
 EN 62109-1:2010  
 EN 62109-2:2011

**Production Facility(ies):**

86470

Page 2 of 3

**CERTIFICATE**  
**No. B 17 04 86470 019**



Product Service

Electrical ratings for various models:

Models	Solis-1P1K-4G GCI-1P1K-4G Mate-1K-4G URE-1P1K-4G	Solis-1P1.5K-4G GCI-1P1.5K-4G Mate-1.5K-4G URE-1P1.5K-4G	Solis-1P2K-4G GCI-1P2K-4G Mate-2K-4G URE-1P2K-4G	Solis-1P2.5K-4G GCI-1P2.5K-4G Mate-2.5K-4G URE-1P2.5K-4G
<b>PV input ratings:</b>				
Max. input voltage:	d.c. 550 V			
MPP voltage range:	d.c. 50 – 450V			
Max. input current:	d.c. 11A			
Isc PV (absolute maximum):	d.c. 17.2A			
<b>AC output:</b>				
Rated grid voltage:	a.c. 230/240V			
Rated grid frequency:	50/60Hz			
Max. AC output active power:	1100W	1700W	2200W	2800W
Max. AC output apparent power:	1100VA	1700VA	2200VA	2800VA
Max. Continuous output current:	a.c. 5.2A	a.c. 8.1A	a.c. 10.5A	a.c. 13.3A

Models	Solis-1P3K-4G GCI-1P3K-4G Mate-3K-4G URE-1P3K-4G	Solis-1P3.6K-4G GCI-1P3.6K-4G Mate-3.6K-4G URE-1P3.6K-4G	Solis-1P4K-4G GCI-1P4K-4G Mate-4K-4G URE-1P4K-4G	Solis-1P4.6K-4G GCI-1P4.6K-4G Mate-4.6K-4G URE-1P4.6K-4G	Solis-1P5K-4G GCI-1P5K-4G Mate-5K-4G URE-1P5K-4G
<b>PV input ratings:</b>					
Max. input voltage:	d.c. 600 V				
MPP voltage range:	d.c. 100 – 500V				
Max. input current:	d.c. 2x11A				
Isc PV (absolute maximum):	d.c. 2x17.2A				
<b>AC output:</b>					
Rated grid voltage:	a.c. 230/240V				
Rated grid frequency:	50/60Hz				
Max. AC output active power:	3300W	4000W	4400W	4600W	5000W
Max. AC output apparent power:	3300VA	4000VA	4400VA	4600VA	5000VA
Max. Continuous output current:	a.c. 15.7A	a.c. 16A	a.c. 21A	a.c. 25A	a.c. 25A

Models	Solis-1P3K-4G-ST, GCI-1P3K-4G-ST, Mate-3K-4G-ST, URE-1P3K-4G-ST
<b>PV input ratings:</b>	
Max. input voltage:	d.c. 600 V
MPP voltage range:	d.c. 100 – 500V
Max. input current:	d.c. 11A
Isc PV (absolute maximum):	d.c. 17.2A
<b>AC output:</b>	
Rated grid voltage:	a.c. 230/240V
Rated grid frequency:	50/60Hz
Max. AC output active power:	3300W
Max. AC output apparent power:	3300VA
Max. Continuous output current:	a.c. 15.7A

*Handwritten signature*