

## S5-GC(25-40)K

# Solis Three Phase Grid-Tied Inverters

### Efficient

- Max. efficiency 98.7%
- String current up to 16A
- 3/4 MPPT design, supports multiple orientation system design
- Night time PID recovery function, increases overall system yield (optional)
- Wide voltage range and low startup voltage

### Smart

- Supports export power control
- Intelligent string monitoring, smart I-V curve scan
- Supports RS485, WiFi, GPRS
- Scan to register on SolisCloud, supports remote upgrade and control

### Safe

- IP66
- AFCI protection, proactively reduces fire risk
- Globally recognised branded componentry for longer life
- Intelligent redundant fan-cooling

### Economic

- Supports GPRS/WiFi communication with less wiring and reduced installation costs
- > 150% DC/AC ratio
- Supports high power modules for lower installation costs

### Models:

S5-GC25K / S5-GC30K

S5-GC33K / S5-GC36K

S5-GC40K



360° View

# DATASHEET

## S5-GC(25-40)K

Models	25K	30K	33K	36K	40K
<b>Input DC</b>					
Recommended max. PV power	37.5 kW	45 kW	49.5 kW	54 kW	60 kW
Max. input voltage	1100 V				
Rated voltage	600 V				
Start-up voltage	180 V				
MPPT voltage range	200-1000 V				
Max. input current	32 A / 32 A / 32 A			4*32 A	
Max. short circuit current	40 A / 40 A / 40 A			4*40 A	
MPPT number/Max. input strings number	3/6			4/8	
<b>Output AC</b>					
Rated output power	25 kW	30 kW	33 kW	36 kW	40 kW
Max. apparent output power	27.5 kVA	33 kVA	36.3 kVA	39.6 kVA	44 kVA
Max. output power	27.5 kW	33 kW	36.3 kW	39.6 kW	44 kW
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V				
Rated grid frequency	50 Hz / 60 Hz				
Rated grid output current	38.0 A / 36.1 A	45.6 A / 43.3 A	50.1 A / 47.6 A	54.7 A / 52.0 A	60.8 A / 57.7 A
Max. output current	41.8 A	50.2 A	55.1 A	60.2 A	66.9 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)				
THDi	<3%				
<b>Efficiency</b>					
Max. efficiency	98.5%		98.6%		98.7%
EU efficiency	98.1%		98.2%		98.3%
<b>Protection</b>					
DC reverse-polarity protection	Yes				
Short circuit protection	Yes				
Output over current protection	Yes				
Surge protection	DC Type II / AC Type II				
Grid monitoring	Yes				
Anti-islanding protection	Yes				
Temperature protection	Yes				
Strings monitoring	Yes				
I/V Curve scanning	Yes				
Integrated AFCI (DC arc-fault circuit protection)	Yes <sup>(1)</sup>				
Integrated PID recovery	Optional				
Integrated DC switch	Optional				
<b>General Data</b>					
Dimensions (W*H*D)	647*629*252 mm				
Weight	38.2 kg			42.1 kg	
Topology	Transformerless				
Self-consumption (night)	<1 W				
Operating ambient temperature range	-25 ~ +60°C				
Relative humidity	0-100%				
Ingress protection	IP66				
Cooling concept	Intelligent redundant fan-cooling				
Max. operation altitude	4000 m				
Grid connection standard	G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15 / VFR:2019, RD 1699 / RD 244 / UNE 206006 / UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, EIFS 2018.2, IEC 62116, IEC 61727, IEC60068, IEC 61683, EN 50530				
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4				
<b>Features</b>					
DC connection	MC4 connector				
AC connection	OT terminal				
Display	LCD				
Communication	RS485, Optional: Wi-Fi, GPRS				

(1) Activation required.

# S5-GC(50-70)K

## Solis Three Phase Inverters



### Model:

**400V:** S5-GC50K S5-GC60K    **480V:** S5-GC60K-HV S5-GC70K-HV



#### Efficient

- ▶ Max. efficiency 98.7%
- ▶ String current up to **16A**
- ▶ 5/6 MPPT design, supports multiple orientation system design
- ▶ Night time PID recovery function, increases overall system yield



#### Smart

- ▶ Night time SVG function
- ▶ Supports export power control
- ▶ Intelligent string monitoring. Smart I-V curve scan
- ▶ Scan to register on SolisCloud, supports remote upgrade and control



#### Safe

- ▶ IP66, C5 Anti-Corrosion Level
- ▶ Intelligent redundant fan-cooling
- ▶ Globally recognised branded componentry for longer life
- ▶ AFCI protection, proactively reduces fire risk



#### Economic

- ▶ Supports PLC/GPRS/WiFi communication with less wiring and reduced installation costs
- ▶ DC side supports "Y" connectors
- ▶ Supports aluminium wire access to reduce cost
- ▶ 10/12 string inputs allow for 150%+ DC oversizing

## Datasheet

Model Name	S5-GC50K	S5-GC60K	S5-GC60K-HV	S5-GC70K-HV
<b>Input DC</b>				
Max. input voltage	1100 V			
Rated voltage	600 V		720 V	
Start-up voltage	195 V			
MPPT voltage range	180-1000 V			
Max. input current	5*32 A		6*32 A	
Max. short circuit current	5*50 A		6*50 A	
MPPT number/Max. input strings number	5/10		6/12	
<b>Output AC</b>				
Rated output power	50 kW	60 kW	60 kW	70 kW
Max. apparent output power	55 kVA	66 kVA	66 kVA	77 kVA
Max. output power	55 kW	66 kW	66 kW	77 kW
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V		3/PE, 480 V	
Rated grid frequency	50 Hz / 60 Hz			
Rated grid current	76.0 A / 72.2 A	91.2 A / 86.6 A	72.2 A	84.2 A
Max. output current	83.6 A	100.3 A	79.4 A	92.6 A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)			
THDi	<3%			
<b>Efficiency</b>				
Max. efficiency	98.7%			
CEC efficiency	98.3%		98.4%	
<b>Protection</b>				
DC reverse-polarity protection	Yes			
Short circuit protection	Yes			
Output over current protection	Yes			
Surge protection	DC Type II / AC Type II			
Grid monitoring	Yes			
Anti-islanding protection	Yes			
Temperature protection	Yes			
Strings monitoring	Yes			
I/V Curve scanning	Yes			
Integrated AFCI (DC arc-fault circuit protection)	Yes <sup>(1)</sup>			
Integrated PID recovery <sup>(2)</sup>	Optional			
Intergarated AC switch	Optional			
Intergarated DC switch	Yes			
<b>General Data</b>				
Dimensions (W*H*D)	691*578*338 mm			
Weight	54.5 kg			
Topology	Transformerless			
Self consumption (night)	<1 W			
Operating ambient temperature range	-25 ~ +60°C			
Relative humidity	0-100%			
Ingress protection	IP66			
Cooling concept	Intelligent redundant fan-cooling			
Max. operation altitude	4000 m			
Grid connection standard	VDE-AR-N 4105, VDE V 0124, VDE V 0126-1-1, UTE C15-712-1, NRS 097-1-2, G98, G99, EN 50549-1/-2, NTS 631, UNE 206006, UNE 206007-1, IEC61727, DEWA			
Safety/EMC standard	IEC 62109-1/-2, IEC62116 & IEC 61000-6-1/-2/-3/-4			
<b>Features</b>				
DC connection	MC4 connector			
AC connection	OT terminal (max. 70 mm <sup>2</sup> )			
Display	LCD, Capacitive touch buttons			
Communication	RS485, USB, Optional: Wi-Fi, GPRS, PLC <sup>(3)</sup>			

(1) Activation required.

(2) Due to the similar functional logic, when the night time PID-Recovery function is integrated, the night time var compensation function can not be used. Also, the negative grounding option is not available for inverters with night time PID-Recovery function.

(3) The PLC communication can not work with RS485 communication at the same time. If already installed the PLC CCO for PLC communication on site, then the RS485 ports on the inverters can not be used to connect another monitoring/control device.

## Solis-(80-110)K-5G-PRO

### Solis Three Phase Grid-Tied Inverters

#### Efficient

- 6/8 MPPTs, max. efficiency 98.5%
- > 150% DC/AC ratio
- Compatible with bifacial modules

#### Smart

- Night SVG function
- Intelligent string monitoring, smart I-V curve scan
- Remote firmware upgrade with simple operation

#### Safe

- IP66
- AFCI protection, proactively reduces fire risk
- Built-in PID recovery for better module performance (optional)
- Globally recognised branded componentry for longer life

#### Economic

- Power line communication (PLC) (optional)
- DC side supports "Y" connector

#### Models:

Solis-80K-5G-PRO

Solis-100K-5G-PRO

Solis-110K-5G-PRO



## DATASHEET

## Solis-(80-110)K-5G-PRO

Models	80K	100K	110K
<b>Input DC</b>			
Max. input voltage		1100 V	
Rated voltage		600 V	
Start-up voltage		180 V	
MPPT voltage range		160-1000 V	
Max. input current	40 A / 32 A / 40 A / 32 A / 40 A / 32 A	40 A / 32 A / 40 A / 32 A / 40 A / 32 A	
Max. short circuit current	6*50 A	8*50 A	
MPPT number/Max. input strings number	6/12	8/16	
<b>Output AC</b>			
Rated output power	80 kW	100 kW	110 kW
Max. apparent output power	88 kVA	110 kVA	121 kVA
Max. output power	88 kW	110 kW	121 kW
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V		
Rated grid frequency	50 Hz / 60 Hz		
Rated grid output current	121.6 A / 115.5 A	152.0 A / 144.3 A	167.1 A / 158.8 A
Max. output current	133.7 A	167.1 A	183.8 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)		
THDi	<3%		
<b>Efficiency</b>			
Max. efficiency		98.5%	
EU efficiency		98.0%	
<b>Protection</b>			
DC reverse-polarity protection		Yes	
Short circuit protection		Yes	
Output over current protection		Yes	
Surge protection		DC Type II / AC Type II	
Grid monitoring		Yes	
Anti-islanding protection		Yes	
Temperature protection		Yes	
Strings monitoring		Yes	
I/V Curve scanning		Yes	
Integrated AFCI (DC arc-fault circuit protection)		Yes <sup>(1)</sup>	
Integrated PID recovery		Optional	
Integrated DC switch		Yes	
Integrated AC switch		Optional	
<b>General Data</b>			
Dimensions (W*H*D)	1065*585*363 mm (with AC switch)	1183*585*363 mm	
Weight	79.5 kg	93 kg	
Topology	Transformerless		
Self-consumption (night)	<2 W		
Operating ambient temperature range	-30 ~ +60°C		
Relative humidity	0-100%		
Ingress protection	IP66		
Cooling concept	Intelligent redundant fan-cooling		
Max. operation altitude	4000 m		
Grid connection standard	G99, IEC61727, EN50549-1/2		
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4		
<b>Features</b>			
DC connection	MC4 connector		
AC connection	OT terminal (max. 240 mm <sup>2</sup> )		
Display	LCD		
Communication	RS485, Optional: Wi-Fi, GPRS, PLC		

(1) Activation required.

# Compliance Document

No. D 086470 0131 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:**

**PV inverter**  
**Grid-connected PV inverter**

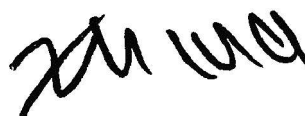
This Compliance document confirms the compliance with the listed standards on a voluntary basis. It refers only to the sample submitted for testing and certification and does not certify the quality or safety of the serial products. For details see: [www.tuvsud.com/ps-cert](http://www.tuvsud.com/ps-cert)

**Test report no.:**

704092304816-00

**Date,**

2023-04-04



( Zhengdong Ma )



# Compliance Document

No. D 086470 0131 Rev. 00

**Model(s):** Solis-80K-5G-PRO, Solis-100K-5G-PRO,  
Solis-110K-5G-PRO, Solis-125K-5G-PRO

**Parameters:**  
Please see pages 3 to 7.

**Tested according to:** EN 50549-2:2019/AC:2019

# Compliance Document

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Models	Solis-80K-5G-PRO	Solis-100K-5G-PRO	Solis-110K-5G-PRO	Solis-125K-5G-PRO
PV input parameters				
Max. input voltage d.c.	1100 V			
MPP voltage range d.c.	160-1000 V			
Max. input current d.c.	3x36A+3x32 A	4x36A+4x32 A		10x36 A
Isc PV(absolute maximum) d.c.	6x50 A	8x50 A		10x50A
AC output parameters				
Rated output power	80000 W	100000 W	110000 W	125000 W
Max. AC output active power	88000 W	110000 W	121000 W	137500 W
Max. AC output apparent power	88000 VA	110000 VA	121000 VA	137500 VA
Rated grid voltage a.c.	3/N/PE~, 230/400 V			
Rated grid frequency	50 Hz			
Max. continuous output current a.c.	133.7 A	167.1 A	183.8 A	198.5 A
Adjustable cos $\varphi$	-0.8...1...+0.8			

# Compliance Document

No. D 086470 0131 Rev. 00

## Protection settings and power controls in inverter

(based on EN 50549-2:2019)

Clause(s) / subclause(s) of this EN	Ref	Parameter	Typical value range	Value default	
4.4.2 Operating frequency range	A.B	47.0 – 47.5 Hz Duration	0 – 20 s	100s	
	A.B	47.5 – 48.5 Hz Duration	30 – 90 min	Unlimited	
	A.B	48.5 – 49.0 Hz Duration	30 – 90 min	Unlimited	
	A.B	49.0 – 51.0 Hz Duration	not configurable	Unlimited	
	A.B	51.0 – 51.5 Hz Duration	30 – 90 min	Unlimited	
	A.B	51.5 – 52 Hz Duration	0 – 15 min	100s	
4.4.3 Minimal requirement for active power delivery at underfrequency	A.B	Reduction threshold	49 Hz – 49.5 Hz	No Reduction	
	A.B	Maximum reduction rate	2 – 10 % PM/Hz	N/A	
4.4.4 Continuous operating voltage range	n.a.	Upper limit	not configurable	110% Un	
	n.a.	Lower limit	not configurable	85% Un	
4.5.2 Rate of change of frequency (ROCOF) immunity	A,B	ROCOF withstand capability (defined with a sliding measurement window of 500 ms)	not defined	2 Hz/s	
		non-synchronous generating technology:			
		synchronous generating technology:		N/A	
4.5.3.2 Generating plant with non-synchronous generating technology	B	Maximum power resumption time	not defined	1s	
		Voltage-Time-Diagram		see Figure 6	Time [s]
		0.0	0.2		
		0.15	0.2		
		1.5	0.85		
		180	0.85		
	180	0.9			
4.5.3.3 Generating plant with synchronous generating technology	B	Maximum power resumption time	not defined	N/A	
		Voltage-Time-Diagram		see Figure 7 (N/A)	Time [s]
		--	--		
		--	--		
		--	--		
		--	--		
		--	--		
	--	--			
4.5.4 Over-voltage ride through (OVRT)	n.a.	Voltage-Time-Diagram	not configurable	Time [s]	U [p.u.]
				0.0	1.25
				0.1	1.25
				0.1	1.20
				5.0	1.20
				5.0	1.15
				60	1.15
60	1.10				

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4.6.1 Power response to overfrequency	A,B	Threshold frequency f1	50.2 Hz – 52 Hz	50.2Hz
	A,B	Droop	2 % – 12 %	5%
	A,B	Power reference	PM   Pmax	P <sub>M</sub> for other non-synchronous generating technology.
	n.a.	Intentional delay	0 – 2 s	0s
	n.a.	Deactivation threshold f <sub>stop</sub>	50.0 Hz – f1	Deactivation
	n.a.	Deactivation time t <sub>stop</sub>	0 – 600 s	-
	A	Acceptance of staged disconnection	yes   no	yes
4.6.2 Power response to underfrequency	n.a.	Threshold frequency f1	49.8 Hz – 46 Hz	-
	n.a.	Droop	2 – 12 %	-
	n.a.	Power reference	PM   Pmax	-
	n.a.	Intentional delay	0 – 2 s	-
4.7.2.2 Capabilities	B	Reactive power range overexcited	0 – 0.6	0
	B	Reactive power range underexcited	0 – 0.6	0
4.7.2.3 Control modes	n.a.	Enabled control mode	Q setp. Q(U) Q(P) cos φ setp. cos φ (P)	Q setpoint
4.7.2.3.2 Setpoint control modes	n.a.	Q setpoint and excitation	0-60%Smax	0
	n.a.	cos φ setpoint and excitation	1-0.9	1
4.7.2.3.3 Voltage related control modes	n.a.	Characteristic curve	-	-
	n.a.	Time constant	3 s – 60 s	10s
	n.a.	Min cos φ	0.0 – 1	0.9
	n.a.	Lock in power	0 % – 20 %	20%
	n.a.	Lock out power	0 % – 20 %	5%
4.7.2.3.4 Power related control mode	n.a.	Characteristic curve	-	disable
4.7.4.2.1 Voltage support during faults and voltage steps - General	B.	Enabling	enable   disable	disable
	B.	Static voltage range overvoltage	100 % Un – 120 % Un	110%
	B.	Static voltage range undervoltage	20 % Un – 100 % Un	90%
	B.	Insensitivity range of ΔU50per	0 % – 15 %	5%
	B.	Gradient k1	0 – 6	2
	B.	Gradient k2	0 – 6	2
4.7.4.2.1.2 Optional Modes	n.a.	Active power priority	enable   disable	disable
	n.a.	Reactive current limitation [% rated current]	0 %–100 %	50%
	n.a.	Zero current threshold	20 % Un – 100 % Un	50% Un
4.7.4.2.2 Zero current mode for converter connected generating technology	n.a.	Enabling	enable   disable	disable
	n.a.	Static voltage range undervoltage	20 % Uc – 100 % Uc	50% Uc
4.9.3 Requirements on voltage and frequency	B	Undervoltage threshold stage 1	0.2 Un – 1 Un	0.8 Un

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protection – inverter self-protection	B	Undervoltage operate time stage 1	0.1 s – 100 s	3 s
	B	Undervoltage threshold stage 2	0.2 Un – 1 Un	0.4 Un
	B	Undervoltage operate time stage 2	0.1 s – 5 s	1.5 s
	B	Overvoltage threshold stage 1	1.0 Un – 1.2 Un	1.2 Un
	B	Overvoltage operate time stage 1	0.1 s – 100 s	5 s
	B	Overvoltage threshold stage 2	1.0 Un – 1.3 Un	1.25 Un
	B	Overvoltage operate time stage 2	0.1 s – 5 s	0.1 s
	B	Overvoltage threshold 10 min mean protection	1.0 Un – 1.15 Un	1.10 Un
	B	Underfrequency threshold stage 1	47.0 Hz– 50.0 Hz	47.5 Hz
	B	Underfrequency operate time stage 1	0.1 s – 100 s	0.5 s
	B	Underfrequency threshold stage 2	47.0 Hz – 50.0 Hz	47 Hz
	B	Underfrequency operate time stage 2	0.1 s – 5 s	0.1 s
	B	Overfrequency threshold stage 1	50.0 Hz – 52.0 Hz	51.5 Hz
	B	Overfrequency operate time stage 1	0.1 s – 100 s	0.5 s
	B	Overfrequency threshold stage 2	50.0 Hz – 52.0 Hz	52.0 Hz
	B	Overfrequency operate time stage 2	0.1 s – 5 s	0.1 s
	B	Positive sequence under-voltage protection threshold	20 % – 100 %	Deactivated
	B	Positive sequence under-voltage protection operate time	0.2 s – 100 s	Deactivated
	B	Negative sequence over-voltage protection threshold	1 % – 100 %	Deactivated
	B	Negative sequence over-voltage protection operate time	0.2 s – 100 s	Deactivated
B	Zero sequence over-voltage protection threshold	0 % – 100 %	Deactivated	
B	Zero sequence over-voltage protection operate time	0.2 s – 100 s	Deactivated	
4.10.2 Automatic reconnection after tripping	B	Lower frequency	47.0 Hz – 50.0 Hz	49.5Hz
	B	Upper frequency	50.0 Hz – 52.0 Hz	50.2Hz
	B	Lower voltage	50 % Un – 100 % Un	90%Un
	B	Upper voltage	100 % Un – 120 % Un	110%Un
	B	Observation time	10 s – 600 s	60s

# Compliance Document

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	B	Active power increase gradient	6 % – 3000 %/min	10%Pn/min
4.10.3 Starting to generate electrical power	A,B	Lower frequency	47.0 Hz – 50.0 Hz	49.5 Hz
	A,B	Upper frequency	50.0 Hz – 52.0 Hz	50.1 Hz
	A,B	Lower voltage	50 % – 100 % Un	90%Un
	A,B	Upper voltage	100 % – 120 % Un	110%Un
	A,B	Observation time	10 s – 600 s	60s
	A,B	Active power increase gradient	6 % – 3000 %/min	10%Pn/min
4.11.1 Ceasing active power	A,B	Remote operation of the logic interface	yes   no	Digital input
4.11.2 Reduction of active power on set point	B	Remote operation NOTE: If yes further definition is provided by the DSO	yes   no	Digital input
4.12 Remote information exchange	B	Remote information exchange required NOTE: If yes further definition is provided by the DSO	yes   no	no

The Column Ref specifies if a parameter is relevant for COMMISSION REGULATION 2016/631 and for what type of generating module the parameter is relevant. If n.a. is set, this parameter is: not applicable for 2016/631, but is introduced into EN50549-2 for local DSO network management reasons and is not considered as cross border issues.

Unauthorized access to factory safety parameters setting and software should be prohibited.

A reset to the factory safety parameters requires retesting and verification in conjunction with the end-use system.

# 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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**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.



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*  
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  
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**Geprüft nach *Tested acc. to***

IEC 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 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.



**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

**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](http://www.certipedia.com)查阅,或拨打我司客服热线800 999 3668 / 400 883 1300咨询