

CERTIFICATE of Conformity



Registration No.: A3 50585760 0001

Report No.: CN23II58 001

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: Type Designation : S5-GCxxK(xx=80,100,110)
: Solis-yyK-5G(80,100,110)
Serial Number : Engineering Samples
Firmware Version : A2
Remark : Refer to test report CN23II58 001 for
: details.

Tested acc. to: UNE 217001:2020

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.

Durch die DAKKS nach
DIN EN ISO/IEC 17065:2013
akkreditierte Zertifizierungsstelle.
Die Akkreditierung gilt nur für den in der
Urkundenanlage D-ZE-14169-01-02
aufgeführten Akkreditierungsumfang.

Certification Body

Date 19.05.2023


Weichun Li

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

Certificado no.: A3 50585760 0001

Certificado De Conformidad

Fabricante: Ginlong technologies Co., Ltd.
Manufacturer: No.57 Jintong Road, Binhai, (seafront) industrial Park, Xiangshan, Ningbo, zhejiang, 315712, P.R. China

Tipo de producto: Grid-connected PV inverter
Type of product:

Modelo: S5-GCxxK(xx=80,100,110), Solis-yyK-5G(80,100,110)
Model:

Versión de firmware: A2
Firmware version:

Estándar: UNE 217001 :2020
Standard: Inversores para conexión a la red de distribución Ensayos de los requisitos de inyección de corriente continua a la red, generación de sobretensiones y sistema de detección de funcionamiento en isla

Reporte no.: CN23II58 001
Report No.:

Fecha de emisión: 2023-05-19
Date of issue:

El certificado de conformidad hace referencia al producto mencionado anteriormente. Esto es para certificar que la muestra se encuentra en conformidad con el requisito de evaluación mencionado anteriormente. Este certificado no implica una evaluación de la producción del producto y no permite el uso de una marca de conformidad TÜV Rheinland. Los requisitos de la norma anterior también se refieren al Real Decreto 244/2019, de 5 de abril, por el que se regulan las condiciones administrativas, técnicas y económicas del autoconsumo de energía eléctrica.

The verification of conformity refers to the above mentioned product. This is to verify that the specimen is in conformity with the assessment requirement mentioned above. This verification does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity. The requirements in above standard also refer to Royal decree 244/2019 of 5 April, by which regulate the administrative, technical and economic conditions of the self-consumption of electrical energy.



Weichun Li
Certificador



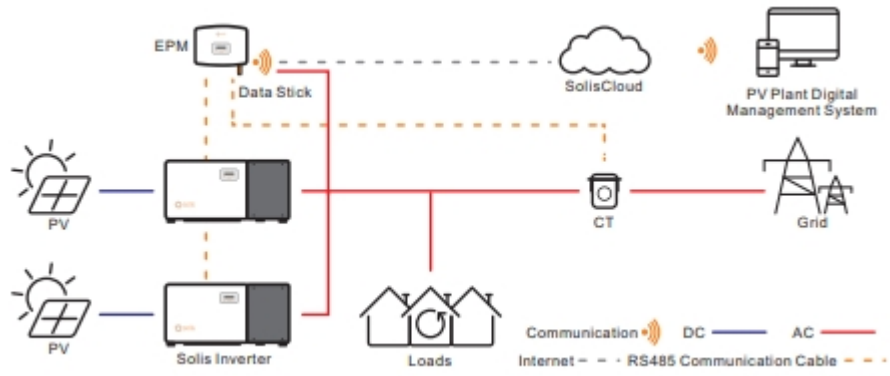
Página 1 de 4
Page 1 of 4

Apéndice
Appendix

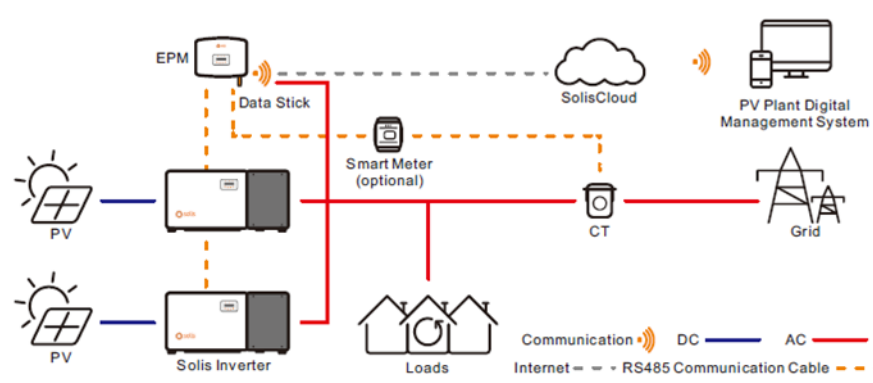
Modelo Model	S5-GC80K	S5-GC100K	S5-GC110K
Potencia nominal CA Nominal AC Power	80000 W	100000 W	110000 W
Tensión nominal CA Nominal AC voltage	220V/230V	220V/230V	220V/230V
Corriente máxima CA Maximal AC current	133.7 A	167.1 A	183.8 A
Frecuencia nominal Nominal frequency	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
Rango de tensión MPPT MPPT voltage range	180-1000 V	180-1000 V	180-1000 V
Tensión CC máxima Max. DC voltage	1100 V	1100 V	1100 V
Corriente DC máxima Max. DC current	9*32 A	10*32 A	10*32 A
Elemento de control Control device	Controller in Inverter	Controller in Inverter	Controller in Inverter
Tipo de dispositivo de control Type of control device	Integrated	Integrated	Integrated

Modelo Model	Solis-80K-5G	Solis-100K-5G	Solis-110K-5G
Potencia nominal CA Nominal AC Power	80000 W	100000 W	110000 W
Tensión nominal CA Nominal AC voltage	220V/230V	220V/230V	220V/230V
Corriente máxima CA Maximal AC current	133.7 A	167.1 A	183.8 A
Frecuencia nominal Nominal frequency	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
Rango de tensión MPPT MPPT voltage range	180-1000 V	180-1000 V	180-1000 V
Tensión CC máxima Max. DC voltage	1100 V	1100 V	1100 V
Corriente DC máxima Max. DC current	9*26 A	10*26 A	10*26 A
Elemento de control Control device	Controller in Inverter	Controller in Inverter	Controller in Inverter
Tipo de dispositivo de control Type of control device	Integrated	Integrated	Integrated

Apéndice
Appendix

Información general del transductor de corriente externo / medidor de potencia ¹⁾ General information of external current transductor/ power meter	
Modelo Model	Solis-EPM3-5G
Aplicación Application	3 Phase
Tensión nominal Nominal voltage	3/N/PE, 230 V / 400 V
Corriente máxima Max. current	0.5 A
Clase de precisión Class of accuracy	Class 3
Tipo de comunicación Type of communication	RS485 / Modbus RTU
Esquema básico del sistema ¹⁾ Basic system diagram	
 <p>The diagram illustrates the basic system architecture. On the left, two PV panels are connected to a Solis Inverter via DC lines (solid blue). The inverter is connected to household Loads and the Grid via AC lines (solid red). An EPM (External Current Transducer) is connected to the inverter and the Grid via a Data Stick (dashed orange). The EPM is also connected to SolisCloud and a PV Plant Digital Management System via an Internet connection (dotted black). A CT (Current Transformer) is connected to the Grid. A legend at the bottom right defines the line types: Communication (dashed orange), Internet (dotted black), RS485 Communication Cable (dashed orange), DC (solid blue), and AC (solid red).</p>	

Apéndice
Appendix

Información general del transductor de corriente externo / medidor de potencia ^{*)} General information of external current transductor/ power meter	
Modelo Model	Solis-EPM3-5G-PRO
Aplicación Application	3 Phase
Tensión nominal Nominal voltage	3/N/PE, 230 V / 400 V
Corriente máxima Max. current	0.5 A
Clase de precisión Class of accuracy	Class 3
Tipo de comunicación Type of communication	RS485 / Modbus RTU
Esquema básico del sistema ^{*)} Basic system diagram	
 <p>The diagram illustrates the system architecture. On the left, two PV panels are connected to a Solis Inverter via DC lines (blue). The inverter is connected to a Smart Meter (optional) and a CT (Current Transformer) via AC lines (red). The Smart Meter and CT are connected to the Grid. The EPM (External Current Transducer) is connected to the Smart Meter via RS485 Communication Cable (dashed orange). The EPM is also connected to SolisCloud via Internet (dashed orange) and to the PV Plant Digital Management System via RS485 Communication Cable (dashed orange). The SolisCloud is connected to the PV Plant Digital Management System via Internet (dashed orange). A legend at the bottom indicates: DC (blue line), AC (red line), and RS485 Communication Cable (dashed orange line).</p>	

***) Para cumplir los requisitos de RD 244/2019, ANEXO I y UNE 217001 IN: 2020, se instalará el dispositivo adicional.**
To fulfill the requirements of RD 244/2019, ANEXO I and UNE 217001 IN : 2020, the additional device shall be installed.