

Certificate of Conformity

By the product certificate number

No. 230039RECO17-B-CER

Issued to:

License holder:

Shenzhen SOFARSOLAR Co., Ltd.

11/F., Gaoxingqi Technology Building, No.67 Area, Xingdong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

Trademark:

Manufacturer:

Guangdong Sofar Smart Solar Technology Co., Ltd.

No.1, Dongsheng North Road, Chenjiang Street, Zhongkai High-tech Zone, Huizhou City, China.

It is certified that the product:

Type of generator: Bidirectional Inverter

Models:	SOFAR 250KTLX0	SOFAR 330KTLX0	SOFAR 350KTLX0	SOFAR 330KTLX1	SOFAR 350KTLX1
Technical Data:					
Rated Active Power:	250 kW	330 kW	352 kW	330 kW	352 kW
Rated Voltage:			800 V _{ac}		
Rated Frequency:			50 / 60 Hz		
Firmware version:			V1.1.1		
Number of phases:			Three Phase / Triphasé (3/PE)		
Isolation transformer:			No / Non		

Is in compliance with standard:

- **Document Number: DOC-030221-GAP** of ESB Networks Company Standard- Conditions Governing the Connection and Operation of Micro- Generation

This certificate just covers PV inverters models of up to 72 A, or in a range within 17 kVA and 50 kVA, certified below above-mentioned references to be installed in PV generating of plants or to be connected to a LV distribution network.

Requirements for interface protection according to the clause 2.2 of the above-mentioned standard have been checked verifying upper and lower thresholds of the voltage and frequency configuration ranges which are required in the certified standard. This ensures the compliance with interface protection settings which adjusted inside of these configuration ranges.

Additionally, this certification ensures the compliance with specific deviations for interface protection according for **Ireland** which have been verified according to settings defined in section 2.2 Interface Protection Settings - Table 3, Annex A Ireland, of the above-mentioned standard.

The above-mentioned generating unit is certified according SGS internal procedure 4 based on the requirements of the UNE-EN ISO / IEC 17065.

First issued on: 28th December 2023.

This certificate is valid until: 28th December 2028.

Madrid, 28th December 2023.

Daniel Arranz Muñiz
Certification Manager



SGS Tecnos, S.A.U. C/ Trespademe, 29 - 28042 Madrid
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Certificate of Conformity

By the product certificate number

No. 230039RECO17-A-CER

Issued to:

Shenzhen SOFARSOLAR Co., Ltd.

License holder :

11/F., Gaoxingqi Technology Building, No.67 Area, Xingdong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

Trademark :



Manufacturer :

Guangdong Sofar Smart Solar Technology Co., Ltd.

No.1, Dongsheng North Road, Chenjiang Street, Zhongkai High-tech Zone, Huizhou City , China.

It is certified that the product

Type of generator : Solar Grid-tied Inverter

Models :	SOFAR 250KTLX0	SOFAR 330KTLX0	SOFAR 350KTLX0	SOFAR 330KTLX1	SOFAR 350KTLX1
Technical Data :					
Rated Active Power	250 kW	330 kW	352 kW	330 kW	352 kW
Rated Voltage			800 V _{ac}		
Rated Frequency			50 / 60 Hz		
Firmware version			V1.1.1		
Number of phases			Three Phase / Triphasé (3/PE)		
Isolation transformer			No / Non		

Is in compliance with standard

EN 50549-1: 2019 "Requirements for generating plants to be connected in parallel with distribution networks" – Part 1: Connection to a LV Distribution Network - Generating Plants up to and including type B.

This certificate just covers PV inverters models certified below above-mentioned references to be installed in PV generating of type plants B to be connected to a LV distribution network.

The above-mentioned product is certified according to the standard EN 50549-1: 2019 and is valid to be installed in PV generating of type plants B to be connected to a LV distribution network. The relation between this European Standard with the relevant Article of COMMISSION REGULATION (EU) 2016/631 (NC RfG) is considered as it is indicated in the annex H of the standard EN 50549-1:2019.

Requirements for interface protection according to the clause 4.9.3 of the above-mentioned standard have been checked verifying upper and lower thresholds of the voltage and frequency configuration ranges which are required in the certified standard. This ensures the compliance with interface protection settings which adjusted inside of these configuration ranges, as for example, interface protection settings needed in **Romania**.

The above-mentioned generating unit is certified according to the SGS internal procedure PE.T-ECPE-53 based on the requirements of the UNE-EN ISO / IEC 17065.

First issued on: 28th December 2023.

This certificate is valid until: 28th December 2028.

Madrid, 28th December 2023.


Daniel Arranz Muñiz
Certification Manager



Test Verification of Conformity

Verification Number: 2311A1382SHA-V1

On the basis of the referenced test report(s), sample(s) tested of the below product have been found to comply with the standards harmonized with the directives listed on this verification at the time the tests were carried out. Other standards and Directives may be relevant to the product. This verification is part of the full test report(s) and should be read in conjunction with it <them>.

Once compliance with all product relevant  mark directives are verified, including any relevant e.g. risk assessment and production control, the manufacturer may indicate compliance by signing a Declaration of Conformity themselves and applying the mark to products identical to the tested sample(s).

Applicant Name & Address:	Shenzhen SOFARSOLAR Co., Ltd. 11/F., Gaoxinqi Technology Building, No.67 Area, Xingdong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, China
Manufacturer site Name & Address:	Guangdong Sofar Smart Solar Technology Co., Ltd. No.1, Dongsheng North Road, Chenjiang Street, Zhongkai High-tech Zone, Huizhou City (One license multiple addresses), China
Product Description:	Smart String-level Disconnecter (SSLD)
Ratings & Principle Characteristics:	Ue=1500Vdc, Cat.A, In=20A;
Models/Type References:	SOFAR 320KTLX0, SOFAR 250KTLX0, SOFAR 330KTLX0, SOFAR 333KTLX0, SOFAR 350KTLX0, SOFAR 333KTLX1, SOFAR 330KTLX1, SOFAR 350KTLX1
Brand Name:	
Relevant Standards/Directives:	EN 60947-2:2017+A1:2020 The EMC Directive 2014/30/EU
Verification Issuing Office Name & Address:	Intertek Testing Services Shanghai Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, China
Date of Tests:	December 25, 2023 to December 26, 2023
Test Report Number(s):	2311A1382SHA-001



Signature

Name: Edwin Xu

Position: Assistant Manager

Date: April 11, 2024

This Verification is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Verification. Only the Client is authorized to permit copying or distribution of this Verification. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test/inspection results referenced in this Verification are relevant only to the sample tested/inspected. This Verification by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.



Dongguan BALUN Testing Technology Co., Ltd.

Room 104, 204, 205, Building 1, No. 6, Industrial South Road, Songshan Lake District, Dongguan, Guangdong, China

VERIFICATION OF CONFORMITY

Certificate No.: BL-DG2370278D01

Applicant: Shenzhen SOFARSOLAR Co., Ltd.

Address: 11/F., Gaoxinqi Technology Building, No.67 Area, Xingdong Community, Xin'an Sub-district, Bao'an District, Shenzhen City,China

Manufacture: Shenzhen SOFARSOLAR Co., Ltd.

Address: 11/F., Gaoxinqi Technology Building, No.67 Area, Xingdong Community, Xin'an Sub-district, Bao'an District, Shenzhen City,China

Product: Solar Grid-tied Inverter

Brand name: 

Model name: SOFAR 250KTLX0, SOFAR 330KTLX0, SOFAR 333KTLX0, SOFAR 350KTLX0, SOFAR 330KTLX1, SOFAR 333KTLX1, SOFAR 350KTLX1

The submitted sample of the above product has been tested according with below Standard(s):

Applied Standards:	Report No.:
IEC 60255-27: 2013	BL-DG2370278-201



Unit Certificate / Einheitszertifikat		No: 230039RECO21-CER Signed Copy No.1 / Unterzeichnete Kopie No.1				
License holder / Lizenzinhaber	Shenzhen SOFARSOLAR Co., Ltd. 11/F., Gaoxinqi Technology Building, No.67 Area, Xingdong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China					
Manufacturers / Hersteller	Guangdong Sofar Smart Solar Technology Co., Ltd. No.1, Dongsheng North Road, Chenjiang Street, Zhongkai High-tech Zone, Huizhou City, Guangdong Province.					
Power generating unit type / Typ Erzeugungseinheit	Solar Grid-tied Inverter					
	Trademark / Series	Sofar / SOFAR 250-350KTLX series				
	Model	SOFAR 350KTLX0	SOFAR 350KTLX1	SOFAR 330KTLX1	SOFAR 330KTLX0	SOFAR 250KTLX0
Technical Data / Technische Daten	Maximum Output Power / Maximale Ausgangsleistung	352 kVA	352 kVA	330 kVA	330 kVA	250 kVA
	Rated active power/ Bemessungswirkleistung:	352 kW	352 kW	330 kW	330 kW	250 kW
	Rated Voltage/ Bemessungsspannung	800 V _{ac} 3/PE	800 V _{ac} 3/PE	800 V _{ac} 3/PE	800 V _{ac} 3/PE	800 V _{ac} 3/PE
	Nominal Frequency / Nennfrequenz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz
	Software version / Softwareversion	V1.1.1	V1.1.1	V1.1.1	V1.1.1	V1.1.1
Validated Simulation Model / Validiertes Simulationsmodell	Reference name: PGU_350kW.slx MD5 Checksum: 59FB6570F388299BDC962D29133DEB42 Simulation platform: Matlab Simulink R2019a					
VDE application guide / VDE-Anwendungsregel	VDE-AR-N 4110: 2018-11. Technical requirements for the connection and operation of customer installations to the medium voltage network (TAR medium voltage) / VDE-AR-N 4110: 2018-11. Technische Voraussetzungen für den Anschluss und Betrieb von Kundenanlagen an das Mittelspannungsnetz (TAR-Mittelspannung). VDE-AR-N 4120:2018-11. Technical requirements for the connection and operation of customer installations to the high voltage network (TAR high voltage). VDE-AR-N 4120: 2018-11. Technische Voraussetzungen für den Anschluss und Betrieb von Kundeninstallationen an das Hochspannungsnetz (TAR-Hochspannung).					
Certification programme / Zertifizierungsprogramm	FGW- Richtlinie TR 8 Rev. 9					
Other applicable standards/guidelines / Mitgeltende Normen/Richtlinien	FGW- Richtlinie TR 3 Rev. 25 (including supplement 1, dated on 22/01/2019) and FGW- Richtlinie TR 4 Rev. 9.					
<p>The power generating unit mentioned above meets the requirements of the application guide listed above / Die oben bezeichnete Erzeugungseinheit erfüllt die Anforderungen der oben aufgeführten Anwendungsregel</p> <p>The following restrictions and deviations apply / Es gelten folgende Einschränkungen und Abweichungen:</p> <ul style="list-style-type: none"> The certified data of the power generating unit, the auxiliary equipment used and the software version used / Technische Daten der Erzeugungseinheit, der eingesetzten Hilfseinrichtungen und der verwendeten Softwareversion. Schematic structure of the power generating unit / Den schematischen Aufbau der Erzeugungseinheit. Summarized information on the properties of the power generating unit / Zusammengefasste Angaben zu den Eigenschaften der Erzeugungseinheit. <p>The certified product does not provide test terminal. A connecting terminal plate has to be installed separately, if necessary. Das zertifizierte Produkt bietet kein Prüfklemmleiste. Eine Prüfklemmleiste ist bei Bedarf separat nachzurüsten.</p> <p>This certification according to ISO/IEC 17065 has been issued on basis of the certification procedure of SGS / Diese Zertifizierung nach ISO / IEC 17065 wurde auf Basis des Zertifizierungsverfahrens von SGS erteilt.</p> <p>The manufacturer has provided proof of certification of the quality management system of his production facility in accordance with ISO 9001 or is subject to production monitoring / Der Hersteller hat die Zertifizierung seines Qualitätsmanagementsystems seiner Fertigungsstätte nach ISO 9001 nachgewiesen bzw. unterliegt einer Fertigungsüberwachung.</p> <p>The certificate comprises the following information / Das Zertifikat beinhaltet folgende Angaben:</p> <ul style="list-style-type: none"> Technical data of the power generating unit, the auxiliary equipment used and the software version used / Technische Daten der Erzeugungseinheit, der eingesetzten Hilfseinrichtungen und der verwendeten Softwareversion. Schematic structure of the power generating unit / Den schematischen Aufbau der Erzeugungseinheit. Summarized information on the properties of the power generating unit / Zusammengefasste Angaben zu den Eigenschaften der Erzeugungseinheit. <p>The certificate is comprised of 1 page and an Annex of 150 pages. Current revision of this annex is Revision 0 (dated on 07-03-2024). / Das Zertifikat besteht aus 1 Seite und einem Anhang mit 150 Seiten. Die aktuelle Revision dieses Anhangs ist Revision 0 (vom 07.03.2024).</p> <p>The certificate is valid until / Dieses Zertifikat ist gültig bis: 12-03-2029 Place, Date/ Ort, Datum: Brussels, 12-03-2024</p>						
 Calogero Laña, Certification Manager						



C E R T I F I C A T E
of Conformity
EC Council Directive 2014/53/EU
of Radio Equipment

Registration No.: AT 50608549 0001

Report No.: CN2322CD 001

Holder: Shenzhen SOFARSOLAR Co., Ltd.
11/F., Gaoxingqi Technology Building
No.67 Area, Xingdong Community
Xin'an Sub-district, Bao'an District
Shenzhen City
Guangdong
P.R. China

Product: PV-Inverter
(Solar Grid-tied Inverter)

Identification: Type Designation:
SOFAR 250KTLX0, SOFAR 330KTLX0,
SOFAR 333KTLX0, SOFAR 350KTLX0,
SOFAR 330KTLX1, SOFAR 333KTLX1,
SOFAR 350KTLX1
Continued on page 0002

Tested acc. to: EN 300328 V 2.2.2:2019
EN 301489-1 V 2.2.3:2019
EN 301489-17 V 3.2.4:2020
EN 50412-2-1:2005

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. This is to certify that the tested sample is in conformity with all provisions of Article 3 of Council Directive 2014/53/EU. This certificate does not imply assessment of the production and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate as part of the technical documentation and in combination with the EC Declaration of Conformity.

Date 13.12.2023



Certification Body



Tongle Lee

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

Phone:(+49/221)806-1371 Fax:(+49/221)806-3935 e-mail: cert-validity@de.tuv.com http://www.tuv.com/safety

C E R T I F I C A T E
of Conformity
EC Council Directive 2014/53/EU
of Radio Equipment

Registration No.: AT 50608549 0002

Report No.: CN2322CD 001

Holder: Shenzhen SOFARSOLAR Co., Ltd.
11/F., Gaoxingqi Technology Building
No.67 Area, Xingdong Community
Xin'an Sub-district, Bao'an District
Shenzhen City
Guangdong
P.R. China

Product: PV-Inverter
(Solar Grid-tied Inverter)

Identification: as page 0001 Continuation
Serial No.: n.a.
Remark: Refer to test report CN2322CD 001 for details.

Tested acc. to: EN 50561-1:2013
EN 62109-1:2010
EN 62109-2:2011
EN IEC 61000-6-2:2019
EN IEC 61000-6-4:2019
EN IEC 62311:2020

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. This is to certify that the tested sample is in conformity with all provisions of Article 3 of Council Directive 2014/53/EU. This certificate does not imply assessment of the production and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate as part of the technical documentation and in combination with the EC Declaration of Conformity.

Date 13.12.2023



Certification Body



Tongle Lee

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

Phone:(+49/221)806-1371 Fax:(+49/221)806-3935 e-mail: cert-validity@de.tuv.com http://www.tuv.com/safety

Shenzhen SOFARSOLAR Co., Ltd.

Date : 2023/12/13

Our ref. : GZ 02

Your ref.: 168432143

11/F., Gaoxingqi Technology Building
No.67 Area, Xingdong Community
Xin'an Sub-district, Bao'an
District
Shenzhen City
Guangdong
P.R. China

Ref : AT RED Conformity

Type of Equipment : Solar Grid-tied Inverter

Model Designation : See Certificate

Certificate No. : AT 50608549 0001

Report No. : CN2322CD 001

Dear Ladies and Gentlemen,

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



Tongle Lee

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

Certificate of Conformity

By the product certificate number / Par le numéro de certificat du produit

No. 230039RECO17-CER

Issued to / Délivré à

License holder / Titulaire de licence Shenzhen SOFARSOLAR Co., Ltd.
11/F., Gaoxinqi Technology Building, No.67 Area, Xingdong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

Trademark / Marque déposée



Manufacturer / Fabricant Guangdong Sofar Smart Solar Technology Co., Ltd.
No.1, Dongsheng North Road, Chenjiang Street, Zhongkai High-tech Zone, Huizhou City, China.

It is certified that the product / Il est certifié que le produit

Type of generator / Type de générateur: **Solar Grid-tied Inverter / Onduleur solaire relié au réseau**

Models / Modèles	SOFAR 250KTLX0	SOFAR 330KTLX0	SOFAR 350KTLX0	SOFAR 330KTLX1	SOFAR 350KTLX1
Rated Power / Puissance nominale	250 kW	330 kW	352 kW	330 kW	352 kW
Rated Voltage / Tension nominale	800 V _{ac}				
Rated Frequency / Fréquence nominale	50 / 60 Hz				
Firmware version / Version du firmware	V1.1.1				
Number of phases / Nombre de phases	Three Phase / Triphasé (3/PE)				
Isolation transformer / Transformateur d'isolement	No / Non				

Is in compliance with standard / Est conforme à la norme:

EN 50549-1: 2019 "Requirements for generating plants to be connected in parallel with distribution networks" – Part 1: Connection to a LV Distribution Network - Generating Plants up to and including type B. / "Exigences relatives aux centrales de production à raccorder en parallèle aux réseaux de distribution" – Partie 1 : Raccordement à un réseau de distribution BT - Centrales jusqu'au type B inclus.

This certificate just covers PV inverters models certified below above-mentioned references to be installed in PV generating of plants type B to be connected to a LV distribution network. / Ce certificat couvre uniquement les modèles d'onduleurs PV certifiés selon les références mentionnées ci-dessus, à installer dans des centrales de production PV de type B à raccorder à un réseau de distribution BT.

The above-mentioned product is certified according to the standard EN 50549-1: 2019 and is valid to be installed in PV generating of type plants B to be connected to a LV distribution network. The relation between this European Standard with the relevant Article of COMMISSION REGULATION (EU) 2016/631 (NC RfG) is considered as it is indicated in the annex H of the standard EN 50549-1: 2019. / Le produit susmentionné est certifié conformément à la norme EN 50549-1 : 2019 et est valable pour être installé dans des centrales PV de type B à raccorder à un réseau de distribution BT. La relation entre cette norme européenne et l'article pertinent du RÈGLEMENT (UE) 2016/631 DE LA COMMISSION (NC RfG) est considérée comme indiquée dans l'annexe H de la norme EN 50549-1 : 2019.

The above-mentioned generating unit is certified according to the SGS internal procedure PE.T-ECPE-53 based on the requirements of the UNE-EN ISO / IEC 17065. / L'unité de production susmentionnée est certifiée conformément à la procédure interne de SGS PE.T-ECPE-53 sur la base des exigences de la norme UNE-EN ISO / IEC 17065.

First issued on: 28th December 2023. / Première émission le: 28 décembre 2023.

This certificate is valid until: 28th December 2028. / Ce certificat est valable jusqu'au: 28 décembre 2028.

Madrid, 28th December 2023. / Madrid, 28 décembre 2023.

Daniel Arranz Muñiz
Certification Manager



SGS Tecnos, S.A.U. C/ Trespaderne, 29 - 28042 Madrid
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No. 230039RECO17-CER

Page 1 de 1

Certificado de Conformidad

Por medio del certificado de producto número / By the product certificate number

Nº 230039RECO19-A-CER

Emitido a / Issued to:

Propietario de la licencia / License holder: Shenzhen SOFARSOLAR Co., Ltd.
11/F., Gaoxinqi Technology Building, No.67 Area, Xingdong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

Marca / Trademark:

Dirección de Fábrica / Factory location: Guangdong Sofar Smart Solar Technology Co., Ltd.
No.1, Dongsheng North Road, Chenjiang Street, Zhongkai High-tech Zone, Huizhou City (One license multiple addresses), China.

Se certifica que el producto / It is certified that the product:

Tipo de aparato / Type of product: Inversor de conexión a red / Solar Grid-tied Inverter

Modelos / Models:	SOFAR 250KTLX0	SOFAR 330KTLX0	SOFAR 350KTLX0	SOFAR 330KTLX1	SOFAR 350KTLX1
Datos técnicos / Rated characteristics:					
Potencia nominal / Rated Power	250 kW	330 kW	352 kW	330 kW	352 kW
Tensión nominal / Rated Voltage	800 V _{ac}				
Frecuencia nominal / Rated Frequency	50 / 60 Hz				
Versión Firmware / Firmware version	V1.1.1				
Número de fases / Number of phases	Trifásico / Three Phase				
Transformador de aislamiento / Isolation transformer	No / No				

Está en cumplimiento con la norma / Is in compliance with the standard:

- **UNE 217002: 2020** 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.

Teniendo en cuenta los requisitos aplicables de la norma y regulación / Taking into account the applicable requirements of the standard and regulation:

- **IEC 62116** "Utility-interconnected photovoltaic inverters-Test procedure of islanding prevention measures"
- **Anexo I, apartado 2.3.6 y 5.3 de la Orden Ministerial TED/749/2020**, de 16 de julio, por la que se establecen los requisitos técnicos para la conexión a la red necesarios para la implementación de los códigos de red de conexión.

El equipo antes mencionado está certificado conforme con el procedimiento interno de SGS PE.T-ECPE-23 de acuerdo con los requisitos de la norma UNE-EN ISO/IEC 17065. / The above-mentioned generating unit is certified according to the SGS internal procedure PE.T-ECPE-23 based on the requirements of the UNE-EN ISO / IEC 17065.

Este certificado se emite por vez primera: 15 de septiembre de 2023. / This certificate is first issued on 15th September 2023.
Este certificado es válido hasta: 15 de septiembre de 2028. / This certificate is valid until the 15th September 2028.

Madrid, 15 de septiembre de 2023.

Daniel Arranz Muñiz
Certification Manager

