

Certificate of Conformity

Certificate Number: CN-PV-230069

On the basis of the tests undertaken, the sample<s> of the below product have been found to comply with the requirements of the referenced specification<s>/standard<s> at the time the tests were carried out. It does not imply that Intertek has performed any surveillance or control of the manufacture(s). The manufacturer(s) shall ensure that the manufacturing process assures compliance of the production units with the examined products mentioned in this certificate.

Applicant:	Shenzhen SOFARSOLAR Co., Ltd. 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
Ratings & Principle Characteristics:	See appendix of Certificate of Conformity
Model:	SOFAR 100KTLX-G4, SOFAR 110KTLX-G4 SOFAR 125KTLX-G4, SOFAR 125KTLX-G4-A
Brand Name<s>:	
Product Complies with:	Ordinul ANRE Nr. 208/14.12.2018 For the approval of the Technical Regulation concerning the technical requirements for connection to electricity networks of public interest for generating modules, power plants consisting of generating modules and power plants consisting of offshore generating modules (offshore) Type approval for type B
Certificate Issuing Office Name & Address:	Intertek Testing Services Ltd. Shanghai West Area, 2 nd Floor, No. 707, Zhangyang Road China (Shanghai) Pilot Free Trade Zone, Shanghai, P. R. China
Test Report No.<s>:	221201104GZU-001

Additional information in Appendix.



Signature

Certification Manager: Grady Ye

Date: 28 February 2023

This Certificate 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 Certificate. Only the Client is authorized to permit copying or distribution of this Certificate. 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.

APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-230069

Model	SOFAR 100KTLX-G4	SOFAR 110KTLX-G4	SOFAR 125KTLX-G4	SOFAR 125KTLX-G4-A
Max. DC input Voltage	1100Vdc			
Operating MPPT voltage range	180Vdc – 1000Vdc			
Max. Input current	10*40A			
PV Isc	10*50A			
Nominal AC output voltage	3/N/PE 230Vac/400Vac			
Nominal AC output Frequency	50/60Hz			
Max. AC output current	145A	159.5A	181.2A	181.2A
Rated Output power	100.0KW	100.0KW	110.0KW	125.0KW
Max. Output Power	100.0KVA	110.0KVA	125.0KVA	125.0KVA
Power factor	1(adjustable +/-0.8)			
Safety level	Class I			
Ingress Protection	IP 66			
Operation Ambient Temperature	-30°C - 60°C			
Software version	V000001			

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Certificate of Conformity

Certificate Number: CN-PV-230056

On the basis of the tests undertaken, the sample<s> of the below product have been found to comply with the requirements of the referenced specification<s>/standard<s> at the time the tests were carried out. It does not imply that Intertek has performed any surveillance or control of the manufacture(s). The manufacturer(s) shall ensure that the manufacturing process assures compliance of the production units with the examined products mentioned in this certificate.

Applicant: Shenzhen SOFARSOLAR Co., Ltd.
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

Ratings & Principle Characteristics: See appendix of Certificate of Conformity

Model: SOFAR 100KTLX-G4, SOFAR 110KTLX-G4
SOFAR 125KTLX-G4, SOFAR 125KTLX-G4-A

Brand Name<s>:

SOFAR

Product Complies with: 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
Type approval for type B

Certificate Issuing Office Name & Address: Intertek Testing Services Ltd. Shanghai
West Area, 2nd Floor, No. 707, Zhangyang Road
China (Shanghai) Pilot Free Trade Zone, Shanghai, P. R. China
Accredited by ACCREDIA in accordance with ISO/IEC 17065:2012

Test Report No.<s>: 221215056GZU-004
According to Annex H of the standard EN 50549-1:2019, generating plants compliant with the clauses of this European Standard are considered to be compliant with the relevant Article of COMMISSION REGULATION (EU) 2016/631, provided that all settings as provided by the DSO and the responsible party are complied with. Additional information in Appendix.



Signature

Certification Manager: Grady Ye
Date: 23 February 2023



PRD N° 306B

APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-230056.

Model	SOFAR 100KTLX-G4	SOFAR 110KTLX-G4	SOFAR 125KTLX-G4	SOFAR 125KTLX-G4-A
Max. DC input Voltage	1100Vdc			
Operating MPPT voltage range	180Vdc – 1000Vdc			
Max. Input current	10*40A			
PV Isc	10*50A			
Nominal AC output voltage	3/N/PE 230Vac/400Vac			
Nominal AC output Frequency	50/60Hz			
Max. AC output current	145A	159.5A	181.2A	181.2A
Rated Output power	100.0KW	100.0KW	110.0KW	125.0KW
Max.Output Power	100.0KVA	110.0KVA	125.0KVA	125.0KVA
Power factor	1(adjustable +/-0.8)			
Safety level	Class I			
Ingress Protection	IP 66			
Operation Ambient Temperature	-30°C - 60°C			
Software version	V000001			

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APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-230056.

Interface protection settings according to EN 50549-1:2019			
Parameter	Max. disconnection time	Min. operate time	Trip value
Undervoltage threshold stage 1 [27 <]	100s	0.1s (0.1 s steps)	Trip value Config. from 0.2 to 1 Un (0.01 Un steps)
Undervoltage threshold stage 2 [27 <<]	5s	0.1s (0.05 s steps)	Trip value Config. from 0.2 to 1 Un (0.01 Un steps)
Overvoltage threshold stage 1 [59 >]	100s	0.1s (0.1 s steps)	Trip value Config. from 1.0 to 1.2 Un (0.01 Un steps)
Overvoltage threshold stage 2 [59 >>]	5s	0.1s (0.05 s steps)	Trip value Config. from 1.0 to 1.3 Un (0.01 Un steps)
Overvoltage 10 min mean protection	Trip time Config ≤ 3s not adjustable Time delay setting = 0 ms		Trip value Config. from 1.0 to 1.15Un (0.01 Un steps)
Underfrequency threshold stage 1 [81 <]	100s	0.1s (0.1s steps)	Trip value Config. from 47.0 to 50.0Hz (0.1Hz steps)
Underfrequency threshold stage 2 [81 <<]	5s	0.1s (0.05 s steps)	Trip value Config. from 47.0 to 50.0Hz (0.1Hz steps)
Overfrequency threshold stage 1 [81 >]	100s	0.1s (0.1s steps)	Trip value Config. from 50.0 to 52.0Hz (0.1Hz steps)
Overfrequency threshold stage 2 [81 >>]	5s	0.1s (0.05 s steps)	Trip value Config. from 50.0 to 52.0Hz (0.1Hz steps)
Starting to and reconnection settings for voltage	50%-120% adjustable, 85%Un ≤ U ≤ 1.10Un default		
Starting to generate electrical power	47Hz – 52Hz adjustable, 49.5Hz ≤ U ≤ 50.1Hz default		
Reconnection settings for frequency	47Hz – 52Hz adjustable, 49.5Hz ≤ U ≤ 50.2Hz default		
Observation time	10s-60s adjustable, 60s default		
Active power increase gradient	6%-3000%/min adjustable, 10%/min default		
Permanent DC injection	0.5% of rated inverter output		
Loss of mains according to EN 62116	Within 2s		

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EN

The below products

DE

Die unten aufgeführten Produkte

FR

Les produits ci-dessous

SOFAR 100KTLX-G4 / SOFAR 110KTLX-G4/SOFAR 125KTLX-G4

manufactured by

hergestellt von

fabriqué par

Shenzhen SOFARSOLAR Co., Ltd.
11/F., Gaoxingqi Technology Building, Xingdong Community,
Xin'an Sub-district, Bao'an District, Shenzhen City, China

are in conformity with the following
EU legislations:

- **Directive 2014/35/EU LVD**
- **Directive 2014/30/EU EMC**
- **Radio Equipment Directive
2014/53/EU (RED)**
- **Directive 2011/65/EU, (EU)
2015/863 RoHS**

mit den folgenden EU-Gesetzen:

- **Richtlinie 2014/35/EU LVD**
- **Richtlinie 2014/30/EU EMC**
- **Richtlinie 2014/53/EU
Funkanlagen (RED)**
- **Richtlinie 2011/65/EU, (EU)
2015/863 RoHS**

sont conformes aux législations
européennes:

- **Directive 2014/35/EU LVD**
- **Directive 2014/30/EU EMC**
- **Directive 2014/53/EUR Les
équipements radio (RED)**
- **Directive 2011/65/EU, (EU)
2015/863 RoHS**

and harmonized standards:

und harmonisierten Normen konform
sind:

et normes harmonisées
suivantes:

Electromagnetic Compatibility

EN IEC 61000-6-2:2019

EN IEC 61000-6-4:2019

ETSI EN 301 489-1 V2.2.3 (2019-11)

ETSI EN 301 489-17 V3.2.4 (2020-09)

Device safety

EN 62109-1:2010

EN 62109-2:2011

Radio spectrum

ETSI EN 300 328 V2.2.2 (2019-07)

EN 62479:2010

This declaration of conformity is
issued under the sole responsibility
of the manufacturer.

Diese Konformitätserklärung wird
unter der alleinigen Verantwortung
des Herstellers ausgestellt.

Cette déclaration de conformité est
délivrée sous la seule responsabilité
du fabricant.



Deklaracja zgodności UE
Declaración de conformidad de la UE
EU-conformiteitsverklaring

SOFAR

PL

Poniższe produkty

ES

Los siguientes productos

NL

De onderstaande producten

SOFAR 100KTLX-G4 / SOFAR 110KTLX-G4/SOFAR 125KTLX-G4

wyprodukowano przez

fabricado por

geproduceerd door

Shenzhen SOFARSOLAR Co., Ltd.
11/F., Gaoxingqi Technology Building, Xingdong Community,
Xin'an Sub-district, Bao'an District, Shenzhen City, China

są zgodne z następującymi przepisami UE:

- Dyrektywa 2014/35/EU LVD
- Dyrektywa 2014/30/EU EMC
- Dyrektywa 2014/53/UE
Urządzeń radiowych (RED)
- Dyrektywa 2011/65/EU, (EU)
2015/863 RoHS

cumplen con las siguientes legislaciones de la UE:

- Directiva 2014/35/EU LVD
- Directiva 2014/30/EU EMC
- Directiva 2014/53/UE Equipos
radioeléctricos (RED)
- Directiva 2011/65/EU, (EU)
2015/863 RoHS

zijn in overeenstemming met de volgende EU-wetgeving:

- Richtlijn 2014/35/EU LVD
- Richtlijn 2014/30/EU EMC
- Richtlijn 2014/53/EU
radioapparatuur (RED)
- Richtlijn 2011/65/EU, (EU)
2015/863 RoHS

i zharmonizowanych norm:

y normas armonizadas:

en geharmoniseerde normen:

Electromagnetic Compatibility

EN IEC 61000-6-2:2019

EN IEC 61000-6-4:2019

ETSI EN 301 489-1 V2.2.3 (2019-11)

ETSI EN 301 489-17 V3.2.4 (2020-09)

Device safety

EN 62109-1:2010

EN 62109-2:2011

Radio spectrum

ETSI EN 300 328 V2.2.2 (2019-07)

EN 62479:2010

Niniejsza deklaracja zgodności została wydana na wyłączną odpowiedzialność producenta.

Esta declaración de conformidad se emite bajo la única responsabilidad del fabricante.

Deze conformiteitsverklaring wordt uitgegeven onder de exclusieve verantwoordelijkheid van de fabrikant.



EU prohlášení o shode
EU-megfeleloségi nyilatkozat
Declaração de conformidade da UE

SOFAR

CZ

Níže uvedené produkty

HU

Az alábbi termékek

PT

Os produtos abaixo indicados

SOFAR 100KTLX-G4 / SOFAR 110KTLX-G4/SOFAR 125KTLX-G4

vyrobena společností

gyártotta

fabricado por

Shenzhen SOFARSOLAR Co., Ltd.

**11/F., Gaoxinqi Technology Building, Xingdong Community,
Xin'an Sub-district, Bao'an District, Shenzhen City, China**

jsou v souladu s následujícími
právními predpisy EU:

- Směrnice 2014/35/EU LVD
- Směrnice 2014/30/EU EMC
- Smernice o rádiových
zařízeních 2014/53/EU (RED)
- Směrnice 2011/65/EU, (EU)
2015/863 RoHS

megfelelnek a következő uniós
jogszabályoknak:

- Irányelv 2014/35/EU LVD
- Irányelv 2014/30/EU EMC
- A rádióberendezésekről szóló
2014/53/EU irányelv (RED)
- Irányelv 2011/65/EU RoHS

estão em conformidade com as
seguintes legislações da UE:

- Directiva 2014/35/EU LVD
- Directiva 2014/30/EU EMC
- Directiva sobre equipamento
de rádio 2014/53/UE (RED)
- Directiva 2011/65/EU, (EU)
2015/863 RoHS

a harmonizované normy:

és harmonizált szabványok:

e normas harmonizadas:

Electromagnetic Compatibility

EN IEC 61000-6-2:2019

EN IEC 61000-6-4:2019

ETSI EN 301 489-1 V2.2.3 (2019-
11)

ETSI EN 301 489-17 V3.2.4 (2020-
09)

Device safety

EN 62109-1:2010

EN 62109-2:2011

Radio spectrum

ETSI EN 300 328 V2.2.2 (2019-07)

EN 62479:2010

Toto prohlášení o shode je vydáno
na výhradní odpovědnost výrobce.

Ezt a megfelelőségi nyilatkozatot a
gyártó kizárólagos felelőssége
mellett adjuk ki.

Esta declaração de conformidade é
emitida sob a exclusiva
responsabilidade do fabricante.



EU-försäkran om överensstämmelse
EU-samsvarserklæring
EU-overensstemmelseserklæring



SE

Nedanstående produkter

NO

Produktene nedenfor

DK

Nedenstående produkter

SOFAR 100KTLX-G4 / SOFAR 110KTLX-G4/SOFAR 125KTLX-G4

tillverkad av

laget av

fremstillet af

Shenzhen SOFARSOLAR Co., Ltd.
11/F., Gaoxinqi Technology Building, Xingdong Community,
Xin'an Sub-district, Bao'an District, Shenzhen City, China

överensstämmer med följande EU-lagstiftning:

- **Direktiv 2014/35/EU LVD**
- **Direktiv 2014/30/EU EMC**
- **Direktiv om radioutrustning 2014/53/EU (RED)**
- **Direktiv 2011/65/EU, (EU) 2015/863 RoHS**

och harmoniserade standarder:

Electromagnetic Compatibility

er i samsvar med följande EU-lovgivning:

- **Direktiv 2014/35/EU LVD**
- **Direktiv 2014/30/EU EMC**
- **Direktiv 2014/53/EU om radioustyr (RED)**
- **Direktiv 2011/65/EU, (EU) 2015/863 RoHS**

og harmoniserte standarder:

EN IEC 61000-6-2:2019

EN IEC 61000-6-4:2019

ETSI EN 301 489-1 V2.2.3 (2019-11)

ETSI EN 301 489-17 V3.2.4 (2020-09)

Device safety

EN 62109-1:2010

EN 62109-2:2011

Radio spectrum

ETSI EN 300 328 V2.2.2 (2019-07)

EN 62479:2010

er i overensstemmelse med følgende EU-lovgivning:

- **Direktiv 2014/35/EU LVD**
- **Direktiv 2014/30/EU EMC**
- **Direktiv om radioudstyr 2014/53/EU (RED)**
- **Direktiv 2011/65/EU, (EU) 2015/863 RoHS**

og harmoniserede standarder:

Denna försäkran om överensstämmelse utfärdas på tillverkarens eget ansvar.

Denne samsvarserklæringen er utstedt på produsentens eget ansvar.

Denne overensstemmelseserklæring er udstedt på producentens eget ansvar.



EU izjava o skladnosti
EU deklaracija o usklađenosti
EU izjava o skladnosti

SOFAR

HR

Niže navedene proizvode

SLK

Nižšie uvedené produkty

SL

Nižje navedeni izdelki

SOFAR 100KTLX-G4 / SOFAR 110KTLX-G4/SOFAR 125KTLX-G4

proizvodi

Vyrába

Izdeluje

Shenzhen SOFARSOLAR Co., Ltd.

**11/F., Gaoxinqi Technology Building, Xingdong Community,
Xin'an Sub-district, Bao'an District, Shenzhen City, China**

su u skladu sa slijedećim EU normama

- Uredba 2014/35/EU LVD
- Uredba 2014/30/EU EMC
- Uredba radio uređaja
2014/53/EU (RED)
- Uredba 2011/65/EU, (EU)
2015/863 RoHS

te standarde za harmonike

sú v súlade s európskymi právnymi predpismi:

- Smernica 2014/35/EU LVD
- Smernica 2014/30/EU EMC
- Smernica radio naprava
2014/53/EU (RED)
- Smernica 2011/65/EU, (EU)
2015/863 RoHS

a nasledujúce harmonizované normy:

skladni z naslednimi EU smernicami

- Smernica 2014/35/EU LVD
- Smernica 2014/30/EU EMC
- Smernica radio naprav
2014/53/EUR (RED)
- Smernica 2011/65/EU, (EU)
2015/863 RoHS

in standarde za harmonike

Electromagnetic Compatibility	EN IEC 61000-6-2:2019
	EN IEC 61000-6-4:2019
	ETSI EN 301 489-1 V2.2.3 (2019-11)
	ETSI EN 301 489-17 V3.2.4 (2020-09)
Device safety	EN 62109-1:2010
	EN 62109-2:2011
Radio spectrum	ETSI EN 300 328 V2.2.2 (2019-07)
	EN 62479:2010

Ova izjava o skladnosti je izdana isključivo pod odgovornošću proizvođača

Toto vyhlásenie o zhode sa vydáva na výhradnú zodpovednosť výrobcu.

Ta izjava o skladnosti je izdana na izključno odgovornost proizvojalca.

The Last two digits of the year in which the CE marking was affixed 23

Shenzhen, 2023-09-27 Rong Xiao, Head of R&D

Rock Xiao