

Certificate of Conformity

Certificate Number: CN-PV-210190

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

Applicant Name & Address:	Shenzhen SOFARSOLAR Co., Ltd. 401, Building 4, AnTongDa Industrial Park, District 68, XingDong Community, XinAn Street, BaoAn District, Shenzhen, China
Product Description:	Solar Grid-tied Inverter
Ratings & Principle Characteristics:	See Annex to Certificate of Conformity
Models/Type References:	SOFAR 3KTLM-G3, SOFAR 3.6KTLM-G3, SOFAR 4KTLM-G3, SOFAR 4.6KTLM-G3, SOFAR 5KTLM-G3, SOFAR 5KTLM-G3-A SOFAR 6KTLM-G3
Brand Name:	
Specification/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 Type approval for type A and with deviations according to the Romania (The technical requirements for connection to the electrical networks of public Ordinul 208_201)
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
Test Report Number:	210120057GZU-001

Additional information in Appendix.



Signature

Certification Manager: Grady Ye

Date: 31 August 2021

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-210190

MODEL	SOFAR 3KTLM-G3	SOFAR 3.6KTLM-G3	SOFAR 4KTLM-G3	SOFAR 4.6KTLM-G3
Input (DC)				
Max. input voltage	600V			
Start-up voltage	90V			
Rated input voltage	380V			
MPPT operating voltage range	80V~550V			
Full power MPPT voltage range	200V~500V			
Max. input MPPT current	15A/15A			
Max. input short circuit current per MPPT	22.5A/22.5A			
Output (AC)				
Rated power	3000W	3680W	4000W	4600W
Max. AC power	3300VA	3680VA	4400VA	4600VA
Rated output current	13.6A	16A	18.2A	21A
Max output current	15A	16A	20A	23A
Nominal grid voltage	230Vac			
Nominal frequency	50Hz/60Hz			
Power factor	1default(+/-0.8 adjustable)			
Ambient temperature range	-30~+60°C			
Degree of protection	IP65			
Cooling	Natural			
Software version	V000001			

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APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-210190

MODEL	SOFAR 5KTLM-G3	SOFAR 5KTLM-G3-A	SOFAR 6KTLM-G3
Input (DC)			
Max. input voltage	600V		
Start-up voltage	90V		
Rated input voltage	380V		
MPPT operating voltage range	80V~550V		
Full power MPPT voltage range	210V~500V	260V~500V	
Max. input MPPT current	15A/15A		
Max. input short circuit current per MPPT	22.5A/22.5A		
Output (AC)			
Rated power	5000W	5000W	6000W
Max. AC power	5500VA	5000VA	6000VA
Rated output current	22.7A	21.7A	27.3A
Max output current	25A	21.7A	29A
Nominal grid voltage	230Vac		
Nominal frequency	50Hz/60Hz		
Power factor	1default(+/-0.8 adjustable)		
Ambient temperature range	-30~+60°C		
Degree of protection	IP65		
Cooling	Natural		
Software version	V000001		

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Interface protection settings according to EN 50549-1:2019 with deviation of Romania			
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, 90%Un ≤ U ≤ 1.10Un default		
Starting to generate electrical power for frequency	47Hz – 52Hz adjustable, 47.5Hz ≤ U ≤ 51Hz default		
Reconnection settings for frequency	47Hz – 52Hz adjustable, 47.5Hz ≤ U ≤ 51Hz default		
Observation time	10s-300s 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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EU Declaration of Conformity
EU-Konformitätserklärung
Déclaration de conformité de l'UE



EN

DE

FR

The below products

Die unten aufgeführten Produkte

Les produits ci-dessous

**SOFAR 3KTLM-G3 / SOFAR 3.6KTLM-G3 / SOFAR 4KTLM-G3 / SOFAR 4.6KTLM-G3 / SOFAR 5KTLM-G3 /
SOFAR 5KTLM-G3-A / SOFAR 6KTLM-G3**

manufactured by

hergestellt von

fabriqué par

Shenzhen SOFARSOLAR Co., Ltd.

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

are in conformity with the following
EU legislations:

mit den folgenden EU-Gesetzen:

sont conformes aux législations
européennes:

- 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

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

- 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 61000-6-1:2019

EN 61000-3-2:2019

EN 61000-3-12:2011

EN 61000-6-2:2005

EN 61000-6-3:2007+A1:2011+
AC:2012

EN61000-3-3:2013+A1:2019

EN 61000-3-11:2019

EN 301 489-1 V2.2.3

EN 301 489-17 V3.2.4

Device safety

EN 62109-1:2010

EN 62109-2:2011

Radio spectrum

EN 300 328 V2.2.2

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 3KTLM-G3 / SOFAR 3.6KTLM-G3 / SOFAR 4KTLM-G3 / SOFAR 4.6KTLM-G3 / SOFAR 5KTLM-G3 /
SOFAR 5KTLM-G3-A / SOFAR 6KTLM-G3**

wyprodukowano przez

fabricado por

geproduceerd door

**Shenzhen SOFARSOLAR Co., Ltd.
11/F., Gaoxinqi 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/UE
radioapparatuur (RED)
- Richtlijn 2011/65/EU, (EU)
2015/863 RoHS

i zharmonizowanych norm:

y normas armonizadas:

en geharmoniseerde normen:

Electromagnetic Compatibility

EN 61000-6-1:2019
EN 61000-3-2:2019
EN 61000-3-12:2011
EN 61000-6-2:2005
EN 61000-6-3:2007+A1:2011+
AC:2012
EN61000-3-3:2013+A1:2019
EN 61000-3-11:2019
EN 301 489-1 V2.2.3
EN 301 489-17 V3.2.4

Device safety

EN 62109-1:2010
EN 62109-2:2011

Radio spectrum

EN 300 328 V2.2.2
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 3KTLM-G3 / SOFAR 3.6KTLM-G3 / SOFAR 4KTLM-G3 / SOFAR 4.6KTLM-G3 / SOFAR 5KTLM-G3 /
SOFAR 5KTLM-G3-A / SOFAR 6KTLM-G3

vyrobena společnost

gyártotta

fabricado por

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

jsou v souladu s následujícími
právními předpisy 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 61000-6-1:2019
EN 61000-3-2:2019
EN 61000-3-12:2011
EN 61000-6-2:2005
EN 61000-6-3:2007+A1:2011+
AC:2012
EN61000-3-3:2013+A1:2019
EN 61000-3-11:2019
EN 301 489-1 V2.2.3
EN 301 489-17 V3.2.4

Device safety

EN 62109-1:2010
EN 62109-2:2011

Radio spectrum

EN 300 328 V2.2.2
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.



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

SOFAR

SE

Nedanstående produkter

NO

Produktene nedenfor

DK

Nedenstående produkter

**SOFAR 3KTLM-G3 / SOFAR 3.6KTLM-G3 / SOFAR 4KTLM-G3 / SOFAR 4.6KTLM-G3 / SOFAR 5KTLM-G3 /
SOFAR 5KTLM-G3-A / SOFAR 6KTLM-G3**

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 radioutstyr (RED)
- Direktiv 2011/65/EU, (EU) 2015/863 RoHS

og harmoniserte standarder:

EN 61000-6-1:2019
EN 61000-3-2:2019
EN 61000-3-12:2011
EN 61000-6-2:2005
EN 61000-6-3:2007+A1:2011+AC:2012
EN61000-3-3:2013+A1:2019
EN 61000-3-11:2019
EN 301 489-1 V2.2.3
EN 301 489-17 V3.2.4

Device safety

EN 62109-1:2010
EN 62109-2:2011

Radio spectrum

EN 300 328 V2.2.2
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 3KTLM-G3 / SOFAR 3.6KTLM-G3 / SOFAR 4KTLM-G3 / SOFAR 4.6KTLM-G3 / SOFAR 5KTLM-G3 /
SOFAR 5KTLM-G3-A / SOFAR 6KTLM-G3**

proizvodi

Vyrába

Izdeluje

Shenzhen SOFARSOLAR Co., Ltd.

**11/F., Gaoxingqi 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 61000-6-1:2019

EN 61000-3-2:2019

EN 61000-3-12:2011

EN 61000-6-2:2005

EN 61000-6-3:2007+A1:2011+
AC:2012

EN61000-3-3:2013+A1:2019

EN 61000-3-11:2019

EN 301 489-1 V2.2.3

EN 301 489-17 V3.2.4

Device safety

EN 62109-1:2010

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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.



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



The Last two digits of the year in which the CE marking was affixed 21

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

Rong Xiao