



**BUREAU
VERITAS**

Certificate of compliance

Applicant: Shenzhen SOFARSOLAR Co., Ltd.
401, Building 4, AnTongDa Industrial Park, District 68,
XingDong Community, XinAn Street, BaoAn District, Shenzhen,
China

Product: Photovoltaic (PV) inverter

Model: SOFAR 15KTLX-G3, SOFAR 17KTLX-G3, SOFAR 20KTLX-G3, SOFAR 22KTLX-G3,
SOFAR 24KTLX-G3

Inverter for three-phase parallel connection to the public grid. The network monitoring and disconnection device is an integral part of the above-mentioned model.

Applied rules and standards:

EN 50549-1:2019

Requirements for parallel connection of installations with distribution networks - Part 1: Connection to an LV distribution network - Production of installations up to and including Type B

- 4.4 Normal operating range
- 4.5 Immunity to disturbances
- 4.6 Active response to frequency deviation
- 4.7 Power response to voltage variations and voltage changes
- 4.8 EMC and power quality
- 4.9 Interface protection
- 4.10 Connection and starting to generate electrical power
- 4.11 Ceasing and reduction of active power on set point
- 4.12 Remote information exchange
- 4.13 Requirements regarding single fault tolerance of interface protection system and interface switch

EN 50438:2013

Requirements for micro-generating plants to be connected in parallel with public low-voltage distribution networks

DIN V VDE V 0126-1-1:2006 (4.1 Functional safety)

Automatic disconnection device between a generator and the public low-voltage grid

Commission Regulation (EU) 2016/631 of 14 April 2016

Establishing a network code on requirements for grid connection of generators (NC RFG).

Type approval for generation units to use in Type A and Type B plants.

At the time of issue of this certificate, the safety concept of an aforementioned representative product corresponds to the valid safety specifications for the specified use in accordance with regulations.

Report number: PV200511N080-7 **Certification Program:** NSOP-0032-DEU-ZE-V01
Certificate number: U20-0742 **Date of issue:** 2021-08-26

Certification body



Thomas Lammel



Certification body Bureau Veritas Consumer Products Services Germany GmbH accreditation to DIN EN ISO/IEC 17065

A partial representation of the certificate requires the written approval of Bureau Veritas Consumer Products Services Germany GmbH



Annex to the EN 50549-1 certificate of compliance No. U20-0742

**BUREAU
VERITAS**

Appendix
 Extract from test report according to EN 50549-1 No. PV200511N080-7

Type Approval and declaration of compliance with the requirements of EN 50549-1 and Commission Regulation (EU) 2016/631 of 14 April 2016

Manufacturer / applicant	Shenzhen SOFARSOLAR Co., Ltd. 401, Building 4, AnTongDa Industrial Park, District 68, XingDong Community, XinAn Street, BaoAn District, Shenzhen, China
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Micro-generator Type	Photovoltaic inverter			
	SOFAR 15KTLX-G3	SOFAR 17KTLX-G3	SOFAR 20KTLX-G3	SOFAR 22KTLX-G3
MPP DC voltage range [V]	140-1000			
Input DC voltage range [V]	Max. 1100			
Input DC current [A]	26,0 / 26,0			
Output AC voltage [V]	380-400V 50/60Hz			
Output AC current [A]	15,0	17,0	20,0	22,0
Output power [VA]	16,5	18,7	22,0	24,2
	SOFAR 24KTLX-G3	--	--	--
MPP DC voltage range [V]	140-1000	--	--	--
Input DC voltage range [V]	Max. 1100	--	--	--
Input DC current [A]	26,0 / 26,0	--	--	--
Output AC voltage [V]	380-400V 50/60Hz	--	--	--
Output AC current [A]	24,0	--	--	--
Output power [VA]	26,4	--	--	--

Firmware version	2020-06-01 – 2020-12-18
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Description of the structure of the power generation unit:
 The power generation unit is equipped with a PV and line-side EMC filter. The power generation unit has no galvanic isolation between DC input and AC output. Output switch-off is performed with single-fault tolerance based on two series-connected relays in each line and neutral. This enables a safe disconnection of the power generation unit from the network in case of error.

Note:
 The settings of the interface protection are password protected adjustable.
 In case the above stated generators are used with an external protection device, the protection settings of the inverters are to be adjusted according to the manufacturer's declaration.
 The above stated generators are tested according to the requirements in the EN 50549-1:2019 Commission Regulation (EU) 2016/631 of 14 April 2016. Any modification that affects the stated tests must be named by the manufacturer/supplier of the product to ensure that the product meets all requirements.



EU Declaration of Conformity
EU-Konformitätserklärung
Déclaration de conformité de l'UE



EN

The below products

DE

Die unten aufgeführten Produkte

FR

Les produits ci-dessous

**SOFAR 15KTLX-G3 / SOFAR 17KTLX-G3 / SOFAR 20KTLX-G3 /
SOFAR 22KTLX-G3 / SOFAR 24KTLX-G3 SOFAR**

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**

re 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 61000-6-1:2019
EN 301 489-1 V2.2.3
IEC 61000-6-3:2006+A1:2010
IEC 61000-3-11:2017
IEC 61000-3-12:2011
IEC 61000-6-1:2016
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 61-6-3: 2007 +A1:2011
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 15KTLX-G3 / SOFAR 17KTLX-G3 / SOFAR 20KTLX-G3 /
SOFAR 22KTLX-G3 / SOFAR 24KTLX-G3 SOFAR**

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 61000-6-1:2019

EN 301 489-1 V2.2.3

IEC 61000-6-3:2006+A1:2010

IEC 61000-3-11:2017

IEC 61000-3-12:2011

IEC 61000-6-1:2016

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 61-6-3: 2007 +A1:2011

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-megfelelőségi nyilatkozat
Declaração de conformidade da UE

SOFAR

CZ

Níže uvedené produkty

HU

Az alábbi termékek

PT

Os produtos abaixo indicados

**SOFAR 15KTLX-G3 / SOFAR 17KTLX-G3 / SOFAR 20KTLX-G3 /
SOFAR 22KTLX-G3 / SOFAR 24KTLX-G3 SOFAR**

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 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 IEC 61000-6-1:2019
EN 301 489-1 V2.2.3
IEC 61000-6-3:2006+A1:2010
IEC 61000-3-11:2017
IEC 61000-3-12:2011
IEC 61000-6-1:2016

Device safety

EN 301 489-17 V3.2.4
EN 62109-1:2010
EN 62109-2:2011

Radio spectrum

EN 300 328 V2.2.2
EN 61-6-3: 2007 +A1:2011
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 15KTLX-G3 / SOFAR 17KTLX-G3 / SOFAR 20KTLX-G3 /
SOFAR 22KTLX-G3 / SOFAR 24KTLX-G3 SOFAR**

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**

er i samsvar med følgende 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**

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**

och harmoniserade standarder:

og harmoniserte standarder:

og harmoniserede standarder:

Electromagnetic Compatibility

EN IEC 61000-6-1:2019
EN 301 489-1 V2.2.3
IEC 61000-6-3:2006+A1:2010
IEC 61000-3-11:2017
IEC 61000-3-12:2011
IEC 61000-6-1:2016
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 61-6-3: 2007 +A1:2011
EN 62479:2010

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 15KTLX-G3 / SOFAR 17KTLX-G3 / SOFAR 20KTLX-G3 /
SOFAR 22KTLX-G3 / SOFAR 24KTLX-G3 SOFAR**

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 61000-6-1:2019

EN 301 489-1 V2.2.3

IEC 61000-6-3:2006+A1:2010

IEC 61000-3-11:2017

IEC 61000-3-12:2011

IEC 61000-6-1:2016

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 61-6-3: 2007 +A1:2011

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.



EU-försäkran om överensstämmelse
EU-samsvarserklæring
EU-overensstemmelseserklæring



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