

SOFAR 25-50KTLX-G3

25 / 30 / 33 / 36 / 40 / 45 / 50 kW

THREE-PHASE THREE TO FOUR MPPTS



Product advantages

- Max. efficiency up to 98.80%
- Up to 4 MPPTs with DC overload capability (up to 150%)
- Type II SPD for both DC and AC side
- Prolonged AC overload capability (110%)
- Low start-up voltage, wide MPPT voltage range
- Compatible with 500 W+ modules
- I-V curve scanning function



OV2024051606

Digitally signed by Maracuța Veronica
Date: 2024.10.14 16:14:59 EEST
Reason: MoldSign Signature
Location: Moldova

MOLDOVA EUROPEANĂ



| Model | SOFAR 25KTLX-G3 | SOFAR 30KTLX-G3 | SOFAR 33KTLX-G3 | SOFAR 36KTLX-G3 | SOFAR 40KTLX-G3 | SOFAR 45KTLX-G3 | SOFAR 50KTLX-G3 |
|-----------------------------------|--|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Input (DC) | | | | | | | |
| Max. input voltage | 1100V | | | | | | |
| Rated input voltage | 620V | | | | | | |
| Start-up voltage | 200V | | | | | | |
| MPPT operating voltage range | 180V-1000V | | | | | | |
| Number of MPP trackers | 3 | | | 4 | | | |
| Number of DC inputs | 2 for each MPPT | | | | | | |
| Max. input MPPT current | 3*40A | | | 4*40A | | | |
| Max. input short circuit current | 3*50A | | | 4*50A | | | |
| Output (AC) | | | | | | | |
| Rated output power | 25000W | 30000W | 33000W | 36000W | 40000W | 45000W | 50000W |
| Max. apparent power | 28000VA | 34000VA | 37000VA | 40000VA | 44000VA | 50000VA | 55000VA |
| Max. output current | 42.4A | 51.5A | 56A | 60.6A | 66.7A | 75.8A | 83.3A |
| Rated output voltage | 3/N/PE, 230/400Vac | | | | | | |
| Output voltage range | 310Vac-480Vac | | | | | | |
| Rated output frequency | 50/60Hz | | | | | | |
| Output frequency range | 45Hz-55Hz/55Hz-65Hz | | | | | | |
| Active power adjustable range | 0-100% | | | | | | |
| THDi | <3% | | | | | | |
| Power factor | 1 (adjustable +/-0.8) | | | | | | |
| Efficiency | | | | | | | |
| Max. efficiency | 98.6% | | | 98.8% | | | |
| European efficiency | 98.2% | | | 98.2% | | | |
| Protection | | | | | | | |
| DC reverse polarity protection | Yes | | | | | | |
| Anti-islanding protection | Yes | | | | | | |
| Leakage current protection | Yes | | | | | | |
| Ground fault monitoring | Yes | | | | | | |
| PV-array string fault monitoring | Yes | | | | | | |
| DC switch | Yes | | | | | | |
| SPD | PV: type II, AC: type II | | | | | | |
| General Data | | | | | | | |
| Ambient temperature range | -30°C-+60°C | | | | | | |
| Self-consumption at night | <3W | | | | | | |
| Topology | Transformerless | | | | | | |
| Degree of protection | IP65 | | | | | | |
| Allowable relative humidity range | 0-100% | | | | | | |
| Max. operating altitude | 4000m | | | | | | |
| Cooling | Smart air cooling | | | | | | |
| Dimension (W×H×D) | 585×480×220mm | | | | | | |
| Weight | 36kg | | | 37kg | | | |
| Display | LCD & Bluetooth +APP | | | | | | |
| Communication | RS485/Wi-Fi | | | | | | |
| Standard | IEC/EN 61000-6-1/2/3/4, IEC 62116, IEC 61727, IEC 61683, IEC 60068-1/2/14/30, IEC/EN 62109-1/2, G99, VDE-AR-N 4105, VDE V 0126-1-1, EN 50549-1, NRS 097-2-1, UNE 217002-2020 | | | | | | |

*All specifications are subject to change without notice.

CERTIFICATE

Management system as per ISO 9001 : 2015

(idt GB/T 19001-2016)

The Certification Body TÜV NORD CERT GmbH hereby confirms as a result of the audit, assessment and certification decision according to ISO/IEC 17021-1: 2015, that the organization

Shenzhen SOFARSOLAR Co., Ltd.

**11/F, Gaoxingqi Science and Technology Building, District 67, Xingdong
Community, Xin'an Street, Bao'an District, Shenzhen City, Guangdong
Province, P. R. China**

Unified Social Credit Code: 9144030007111227X8

operates a management system in accordance with the requirements of ISO9001: 2015 and will be assessed for conformity within the 3 year term of validity of the certificate.

scope

**R & D and Sales of Solar Inverter, Energy Storage Battery
(without Lead-Acid Battery) and Energy Storage Inverter;
Sales of Power Supply Systems for Communication Data
Centers and Related Management Activities**

Certificate Registration No. 44 100 2384 0049

Audit Report No. 2.5-CN7441/2023

Valid from 2023-11-13

Valid until 2026-11-12

Initial Certification 2023-11-13



Certification Body
at TÜV NORD CERT GmbH

Printing Address:
TÜV NORD (Hangzhou) Co., Ltd. Shanghai Branch
Registered Address: Room 1537, No.1256, 1258,
WanRong Road, Jing'an District, Shanghai, China, 200436
Office Address: Building 5, No.1, Lane 288, Kangning Road,
Jing'an District, Shanghai 200443 China
Tel: (+8621) 33196200

Issue Date: 2023-11-13

Validity can be verified at the official Website of Certification and Accreditation Administration of the People's Republic of China:
www.cnca.gov.cn

TÜV NORD CERT GmbH

Am TÜV 1

45307 Essen

www.tuev-nord-cert.com



CERTIFICATE

Management system as per ISO 14001: 2015

(idt GB/T 24001-2016)

The Certification Body TÜV NORD CERT GmbH hereby confirms as a result of the audit, assessment and certification decision according to ISO/IEC 17021-1: 2015, that the organization

Guangdong Sofar Smart Solar Technology Co., Ltd.

No.1 Shiquanling West Road, Chenjiang Street, Zhongkai High-Tech Zone,
Huizhou City, Guangdong Province, P. R. China

operates a management system in accordance with the requirements of ISO14001: 2015 and will be assessed for conformity within the 3 year term of validity of the certificate.

scope

Manufacture of Solar Inverter, Energy Storage Inverter; Manufacture and Sales of Energy Storage Converter

Certificate Registration No. 44 104 2384 0051

Audit Report No. 2.5-CN7447/2023

Valid from 2023-12-05

Valid until 2026-12-04

Initial Certification 2023-12-05



Certification Body
at TÜV NORD CERT GmbH

Printing Address:
TÜV NORD (Hangzhou) Co., Ltd. Shanghai Branch
Registered Address: Room 1537, No.1256, 1258,
WanRong Road, Jing'an District, Shanghai, China, 200436
Office Address: Building 5, No.1, Lane 288, Kangning Road,
Jing'an District, Shanghai 200443 China
Tel: (+8621) 33196200

Issue Date: 2023-12-05

Validity can be verified at the official Website of Certification and Accreditation Administration of the People's Republic of China:
www.cnca.gov.cn

TÜV NORD CERT GmbH

Am TÜV 1

45307 Essen

www.tuev-nord-cert.com



CERTIFICATE

Management system as per ISO 45001 : 2018

(idt GB/T 45001-2020)

The Certification Body TÜV NORD CERT GmbH hereby confirms as a result of the audit, assessment and certification decision according to ISO/IEC 17021-1: 2015, that the organization

Shenzhen SOFARSOLAR Co., Ltd.

11/F, Gaoxinqi Science and Technology Building, District 67,
Xingdong Community, Xin'an Street, Bao'an District, Shenzhen City,
Guangdong Province, P. R. China

operates a management system in accordance with the requirements of ISO45001: 2018 and will be assessed for conformity within the 3 year term of validity of the certificate.

scope

R & D and Sales of Solar Inverter, Energy Storage Battery (without Lead-Acid Battery) and Energy Storage Inverter; Sales of Power Supply Systems for Communication Data Centers and Related Management Activities

Certificate Registration No. 44 126 2384 0049

Audit Report No. 2.5-CN7441/2023

Valid from 2023-11-13

Valid until 2026-11-12

Initial Certification 2023-11-13



Certification Body
at TÜV NORD CERT GmbH

Printing Address:
TÜV NORD (Hangzhou) Co., Ltd. Shanghai Branch
Registered Address: Room 1537, No.1256, 1258,
WanRong Road, Jing'an District, Shanghai, China, 200436
Office Address: Building 5, No.1, Lane 288, Kangning Road,
Jing'an District, Shanghai 200443 China
Tel: (+8621) 33196200

Issue Date: 2023-11-13

Validity can be verified at the official Website of Certification and Accreditation Administration of the People's Republic of China:
www.cnca.gov.cn

TÜV NORD CERT GmbH

Am TÜV 1

45307 Essen

www.tuev-nord-cert.com



CERTIFICATE

of conformity with the following European Directives
Low Voltage Directive 2014/35/EU

This certifies that below described products of the applicant:

Shenzhen SOFARSOLAR Co., Ltd.

401, Building 4, AnTongDa Industrial Park, District 68, XingDong
Community, XinAn Street, BaoAn District,
Shenzhen, China.

comply to the essential requirements of the above mentioned European Directive and the following standards,
taking into account the German national deviations:

| | |
|-----------------------|---|
| Product(s): | Solar Grid-tied Inverter |
| Model type(s): | SOFAR 25KTLX-G3, SOFAR 30KTLX-G3, SOFAR 30KTLX-G3-A, SOFAR 33KTLX-G3, SOFAR 36KTLX-G3, SOFAR 40KTLX-G3, SOFAR 45KTLX-G3, SOFAR 50KTLX-G3, SOFAR 40KTLX-G3-HV, SOFAR 50KTLX-G3-HV |
| Standard(s): | EN 62109-1:2010, EN 62109-2:2011 |

This certificate of conformity is based on the evaluation of samples of the product. It does not imply an
assessment of the production and it does not permit the use of a mark of conformity or of a safety mark of the
TÜV NORD CERT GmbH. The holder of this certificate may use this Certificate together with his EC-
Declaration of Conformity.

| | |
|-----------------|--------------------------|
| Registered no.: | 44 799 21 406749 - 124R1 |
| Report no.: | 492011831.002 |
| File no.: | PVP07047/21B-01 |



TÜV NORD CERT GmbH
Certification Body
Balance of System (BOS) for Photovoltaics

Essen, 2021-11-08

TÜV NORD CERT GmbH Langemarckstraße 20 45141 Essen www.tuev-nord-cert.de prodcert@tuev-nord.de

Please also pay attention to the information stated overleaf.



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-DG2480068D02

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: **SOFAR**

Model name: SOFAR 20KTLX-G3, SOFAR 25KTLX-G3, SOFAR 30KTLX-G3, SOFAR 30KTLX-G3-A, SOFAR 33KTLX-G3, SOFAR 36KTLX-G3, SOFAR 40KTLX-G3, SOFAR 45KTLX-G3, SOFAR 50KTLX-G3, SOFAR 40KTLX-G3-HV, SOFAR 50KTLX-G3-HV

The submitted sample of the above product has been tested according with below Standard(s) used for showing compliance with the essential requirements in the **EMC directive (2014/30/EU)** :

| Applied Standards: | Report No.: |
|--|------------------|
| EN IEC 61000-6-1:2019, EN IEC 61000-6-2:2019, EN 61000-6-3:2007+A1:2011+AC:2012, EN IEC 61000-6-4:2019 | BL-DG2480068-402 |



Tel: +86 769 22212330

Email: qc@baluntek.com

web: www.baluntek.com

Certificate of Conformity

By the product certificate number

No. 2621/0362-3-E1-C-CER

Issued to:

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

Trademark:



Manufacturer:

Dongguan SOFAR SOLAR Co., Ltd.
1F – 6F, Building E, No.1 JinQi Road, Bihu Industrial Park.
Wulian Village, Fenggang Town, Dongguan City,
Guangdong Province, P.R. China.



It is certified that the product:

Type of generator: **Solar Grid-tied Inverter**

Models: **SOFAR 25KTLX-G3 / SOFAR 30KTLX-G3 / SOFAR 30KTLX-G3-A / SOFAR 33KTLX-G3 / SOFAR 36KTLX-G3 / SOFAR 40KTLX-G3 / SOFAR 45KTLX-G3 / SOFAR 50KTLX-G3 / SOFAR 40KTLX-G3-HV / SOFAR 50KTLX-G3-HV**

| | | |
|-----------------|-----------------------|------------|
| Technical Data: | Rated Active Power | See page 2 |
| | Rated Voltage | See page 2 |
| | Rated Frequency | 50 Hz |
| | Firmware version | V000001 |
| | Number of phases | See page 2 |
| | Isolation transformer | NO |

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 **Greece**.

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: 17th of January 2022.

This certificate is valid until: 17th of January 2027.

Madrid, 23rd of March 2022



Daniel Arranz Muñiz
Certification Manager



Full list of product references and nominal characteristics:

| Model | SOFAR 25KTLX-G3 | SOFAR 30KTLX-G3 | SOFAR 30KTLX-G3-A | SOFAR 33KTLX-G3 | SOFAR 36KTLX-G3 |
|--------------------------|--------------------|--------------------|----------------------|--------------------|--------------------|
| DC Input | | | | | |
| Max. DC voltage | 1100 V | | | | |
| Rated input voltage | 620 V | | | | |
| MPPT voltage range | 180 V-1000 V | | | | |
| AC Output | | | | | |
| Rated AC Output power | 25 kW | 30 kW | 29.9 kW | 33 kW | 36 kW |
| Max. AC Output power | 28 kVA | 34 kVA | 29.9 kVA | 37 kVA | 40 kVA |
| Nominal grid voltage | 3/N/PE, 230V/400V | | | | |
| Nominal output frequency | 50Hz | | | | |

| Model | SOFAR 40KTLX-G3 | SOFAR 45KTLX-G3 | SOFAR 50KTLX-G3 | SOFAR 40KTLX-G3-HV | SOFAR 50KTLX-G3-HV |
|--------------------------|---------------------|--------------------|----------------------------|-----------------------|-----------------------|
| DC Input | | | | | |
| Max. DC voltage | 1100 V | | | | |
| Rated input voltage | 620 V | | | 725 V | |
| MPPT voltage range | 180 V~1000 V | | | | |
| AC Output | | | | | |
| Rated AC Output power | 40 kW | 45 kW | 50 kW | 40 kW | 50 kW |
| Max. AC Output power | 44 kVA | 50 kVA | 55 kVA | 44 kVA | 55 kVA |
| Nominal grid voltage | 3/N/PE, 230 V/400 V | | | 3P/PE, 277 V/480 V | |
| Nominal output frequency | 50 Hz | | | | |



Certificate of Conformity

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

No. 2621/0362-3-CER/E1

Issued to / Délivré à:

License holder /
Titulaire de la licence:

Shenzhen SOFARSOLAR Co., Ltd.

401, Building 4, AnTongDa Industrial Park, District 68, XingDong Community, XinAn Street, BaoAn District. Shenzhen City, Guangdong Province, P.R. China.

Trademark / Marque
déposée:

Manufacturer /
Fabricant:

Dongguan SOFAR SOLAR Co., Ltd.

1F – 6F, Building E, No.1 JinQi Road, Bihu Industrial Park. Wulian Village, Fenggang Town, Dongguan City, Guangdong Province, P.R. China.

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

Type of generator / Type de génératrice **PV Inverter**

Models / Modèles: **SO FAR 25KTLX-G3 / SO FAR 30KTLX-G3 / SO FAR 30KTLX-G3-A / SO FAR 33KTLX-G3 / SO FAR 36KTLX-G3 / SO FAR 40KTLX-G3 / SO FAR 45KTLX-G3 / SO FAR 50KTLX-G3 / SO FAR 40KTLX-G3-HV / SO FAR 50KTLX-G3-HV**

Technical Data /
Données techniques:

Rated Active Power / Puissance active nominale See page 2 / Voir page 2

Rated Voltage / Tension nominale See page 2 / Voir page 2

Rated Frequency / Fréquence nominale 50 Hz

Firmware version / Version du firmware V000001

Number of phases / Nombre de phases See page 2 / Voir page 2

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 type plants 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 PV de type B à connecter 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 MT. 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 basée sur les exigences de la norme UNE-EN ISO / IEC 17065.

First issued on: 17th January 2022. / Première émission le: 17 janvier 2022.

This certificate is valid until: 17th January 2027. / Ce certificat est valable jusqu'au: 17 janvier 2027..

Madrid, 20th June 2023

Daniel Arranz Muñiz
Certification Manager



| Model | SOFAR 25KTLX-G3 | SOFAR 30KTLX-G3 | SOFAR 30KTLX-G3-A | SOFAR 33KTLX-G3 | SOFAR 36KTLX-G3 |
|--------------------------|---------------------|--------------------|----------------------|-----------------------|-----------------------|
| DC Input | | | | | |
| Max. DC voltage | 1100 V | | | | |
| Rated input voltage | 620 V | | | | |
| MPPT voltage range | 180 V-1000 V | | | | |
| AC Output | | | | | |
| Rated AC Output power | 25 kW | 30 kW | 29.9 kW | 33 kW | 36 kW |
| Max. AC Output power | 28 kVA | 34 kVA | 29.9 kVA | 37 kVA | 40 kVA |
| Nominal grid voltage | 3/N/PE, 230V/400V | | | | |
| Nominal output frequency | 50Hz | | | | |
| Model | SOFAR 40KTLX-G3 | SOFAR 45KTLX-G3 | SOFAR 50KTLX-G3 | SOFAR 40KTLX-G3-HV | SOFAR 50KTLX-G3-HV |
| DC Input | | | | | |
| Max. DC voltage | 1100 V | | | | |
| Rated input voltage | 620 V | | | 725 V | |
| MPPT voltage range | 180 V~1000 V | | | | |
| AC Output | | | | | |
| Rated AC Output power | 40 kW | 45 kW | 50 kW | 40 kW | 50 kW |
| Max. AC Output power | 44 kVA | 50 kVA | 55 kVA | 44 kVA | 55 kVA |
| Nominal grid voltage | 3/N/PE, 230 V/400 V | | | 3P/PE, 277 V/480 V | |
| Nominal output frequency | 50 Hz | | | | |



Certificado de Conformidad

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

Nº 2621/0362-4-E1-A-CER/E1

Emitido a / Issued to:

Titular del certificado /
License holder:

Shenzhen SOFARSOLAR Co., Ltd.
401, Building 4, AnTongDa Industrial Park, District 68, XingDong
Community, XinAn Street, BaoAn District. Shenzhen City, Guangdong
Province, P.R. China



Marca / Trademark



Fábrica / Manufacturer

Dongguan SOFAR SOLAR Co., Ltd.
1F – 6F, Building E, No.1 JinQi Road, Bihu Industrial Park. Wulian Village,
Fenggang Town, Dongguan, P.R. China.

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

Tipo de aparato / Type of product: **Solar Grid-tied Inverter**

Modelos / Models:

**SOFAR 25KTLX-G3 / SOFAR 30KTLX-G3 / SOFAR 30KTLX-G3-A / SOFAR 33KTLX-G3 /
SOFAR 36KTLX-G3 / SOFAR 40KTLX-G3 / SOFAR 45KTLX-G3 /
SOFAR 50KTLX-G3 / SOFAR 40KTLX-G3-HV / SOFAR 50KTLX-G3-HV**

Datos técnicos /

Rated characteristics:

Potencia nominal / Rated Power

Ver página 2 / See page 2

Tensión nominal / Rated Voltage

Ver página 2 / See page 2

Frecuencia nominal / Rated Frequency

50 Hz

Versión Firmware / Firmware version

V000001

Número de fases / Number of phases

Ver página 2 / See page 2

Transformador de aislamiento / Isolation transformer

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

Está en cumplimiento con los requisitos de la norma y regulación / Is in compliance with the requirements of standard and regulation:

- **IEC 62116:2014** "Inversores fotovoltaicos conectados a la red de las compañías eléctricas. Procedimiento de ensayo para las medidas de prevención de formación de islas en la red"
- **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 cancela y sustituye el certificado nº 2621/0362-4-E1-A-CER. / This certificate cancels and supersedes the certificate nº 2621/0362-4-E1-A-CER.

Este certificado se emite por vez primera: 16 de diciembre de 2021. / This certificate is first issued on 16th of December 2021.

Este certificado es válido hasta: 16 de diciembre de 2026. / This certificate is valid until the 16th of December 2026.

Madrid, 07 de abril de 2022



Daniel Arranz Muñiz
Certification Manager



Lista completa de referencias con las características nominales de los productos certificados /
Full list of product references and nominal characteristics:

| Model | SOFAR 25KTLX-G3 | SOFAR 30KTLX-G3 | SOFAR 30KTLX-G3-A | SOFAR 33KTLX-G3 | SOFAR 36KTLX-G3 |
|--------------------------|-------------------|-----------------|-------------------|-----------------|-----------------|
| DC Input | | | | | |
| Max. DC voltage | 1100 V | | | | |
| Rated input voltage | 620 V | | | | |
| MPPT voltage range | 180 V-1000 V | | | | |
| AC Output | | | | | |
| Rated AC Output power | 25 kW | 30 kW | 29.9 kW | 33 kW | 36 kW |
| Max. AC Output power | 28 kVA | 34 kVA | 29.9 kVA | 37 kVA | 40 kVA |
| Nominal grid voltage | 3/N/PE, 230V/400V | | | | |
| Nominal output frequency | 50Hz | | | | |

| Model | SOFAR 40KTLX-G3 | SOFAR 45KTLX-G3 | SOFAR 50KTLX-G3 | SOFAR 40KTLX-G3-HV | SOFAR 50KTLX-G3-HV |
|--------------------------|---------------------|-----------------|-----------------|--------------------|--------------------|
| DC Input | | | | | |
| Max. DC voltage | 1100 V | | | | |
| Rated input voltage | 620 V | | | 725 V | |
| MPPT voltage range | 180 V~1000 V | | | | |
| AC Output | | | | | |
| Rated AC Output power | 40 kW | 45 kW | 50 kW | 40 kW | 50 kW |
| Max. AC Output power | 44 kVA | 50 kVA | 55 kVA | 44 kVA | 55 kVA |
| Nominal grid voltage | 3/N/PE, 230 V/400 V | | | 3P/PE, 277 V/480 V | |
| Nominal output frequency | 50 Hz | | | | |





CERTIFICATE OF PRODUCT CERTIFICATION

SOLAR PRODUCT CERTIFICATE

CERTIFICATE NO.: CQC23024395932

Valid from: Jul.13,2023

Valid until:long-term

NAME AND REGISTERED ADDRESS OF THE 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

NAME AND REGISTERED ADDRESS OF THE MANUFACTURER Shenzhen SOFARSOLAR Co., Ltd.
11/F., Gaoxinqi Technology Building, No.67 Area, Xingdong Community, Xin' an Sub-district, Bao' an District, Shenzhen City,China

NAME AND LOCATION OF THE FACTORY Dongguan SOFAR SOLAR Co., Ltd.
1F - 6F, Building E, No. 1 JinQi Road, Bihu Industrial Park, Wulian Village, Fenggang Town, Dongguan City.

PRODUCT NAME, MODEL AND SPECIFICATION Solar Grid-tied Inverter
See Appendix

THE STANDARDS AND TECHNICAL REQUIREMENTS FOR THE PRODUCTS NB/T32004-2018

TYPE OF CERTIFICATION SCHEMES Type Testing of Product + Initial Factory Inspection + Follow up Factory Inspection

This is to certify that the above mentioned product(s) complies with the requirements of certification rules of CQC33-461239-2018.
The validity of the certificate is subject to positive result of the regular follow up inspection by issuing certification body.

The certificate information is available through the QR code below or CNCA's website: www.cnca.gov.cn



SIGNATURE:

谢肇煦



CHINA QUALITY CERTIFICATION CENTRE





CERTIFICATE OF PRODUCT CERTIFICATION

SOLAR PRODUCT CERTIFICATE

APPENDIX

Page 1 of 2

CERTIFICATE NO.: CQC23024395932

PAPER:

SOFAR 50KTLC-G3-HV

直流输入:MPPT 电压范围 180V-1000Vdc, 最大直流输入电压 1100Vdc, 最大输入电流 40A*4; 交流输出:3/N/PE~, 480V, 50Hz, Max. 66. 2A*3, 额定交流输出功率 50kW;

SOFAR 50KTLC-G3

直流输入:MPPT 电压范围 180V-1000Vdc, 最大直流输入电压 1100Vdc, 最大输入电流 40A*4; 交流输出:3/N/PE~, 400V, 50Hz, Max. 83. 3A*3, 额定交流输出功率 50kW;

SOFAR 45KTLC-G3

直流输入:MPPT 电压范围 180V-1000Vdc, 最大直流输入电压 1100Vdc, 最大输入电流 40A*4; 交流输出:3/N/PE~, 400V, 50Hz, Max. 75. 8A*3, 额定交流输出功率 45kW;

SOFAR 40KTLC-G3-HV

直流输入:MPPT 电压范围 180V-1000Vdc, 最大直流输入电压 1100Vdc, 最大输入电流 40A*4; 交流输出:3/N/PE~, 480V, 50Hz, Max. 53A*3, 额定交流输出功率 40kW;

SOFAR 40KTLC-G3

直流输入:MPPT 电压范围 180V-1000Vdc, 最大直流输入电压 1100Vdc, 最大输入电流 40A*4; 交流输出:3/N/PE~, 400V, 50Hz, Max. 66. 7A*3, 额定交流输出功率 40kW;

NOTE: This appendix is valid when used with the certificate.



CHINA QUALITY CERTIFICATION CENTRE



CERTIFICATE OF PRODUCT CERTIFICATION

SOLAR PRODUCT CERTIFICATE

APPENDIX

Page 2 of 2

CERTIFICATE NO.: CQC23024395932

PAPER:

SOFAR 36KTLC-G3

直流输入:MPPT 电压范围 180V-1000Vdc, 最大直流输入电压 1100Vdc, 最大输入电流 40A*3; 交流输出:3/N/PE~, 400V, 50Hz, Max. 60. 6A*3, 额定交流输出功率 36kW;

SOFAR 33KTLC-G3

直流输入:MPPT 电压范围 180V-1000Vdc, 最大直流输入电压 1100Vdc, 最大输入电流 40A*3; 交流输出:3/N/PE~, 400V, 50Hz, Max. 56A*3, 额定交流输出功率 33kW;

SOFAR 30KTLC-G3

直流输入:MPPT 电压范围 180V-1000Vdc, 最大直流输入电压 1100Vdc, 最大输入电流 40A*3; 交流输出:3/N/PE~, 400V, 50Hz, Max. 51. 5A*3, 额定交流输出功率 30kW;

SOFAR 25KTLC-G3

直流输入:MPPT 电压范围 180V-1000Vdc, 最大直流输入电压 1100Vdc, 最大输入电流 40A*3; 交流输出:3/N/PE~, 400V, 50Hz, Max. 42. 4A*3, 额定交流输出功率 25kW;

NOTE: This appendix is valid when used with the certificate.



CHINA QUALITY CERTIFICATION CENTRE

Certificate of The Network and System Protection Zertifikat für den Netz- und Anlagenschutz

Certificate No. (Zertifikats-Nr.): CN-PV-230178

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.

Anhand der durchgeführten Tests wurde festgestellt, dass die Probe (n) des nachstehenden Produkts zum Zeitpunkt der Durchführung der Tests den Anforderungen der angegebenen Spezifikation (n) / Norm (en) entsprachen. Dies bedeutet nicht, dass Intertek die Herstellung (en) überwacht oder kontrolliert hat. Der Hersteller stellt sicher, dass der Herstellungsprozess die Übereinstimmung der Produktionseinheiten mit den in diesem Zertifikat genannten geprüften Produkten sicherstellt.

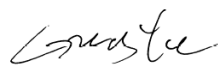
| | |
|---|--|
| Applicant: (Antragsteller) | Shenzhen SOFARSOLAR Co., Ltd. 11/F., Gaoxinqi Technology Building, No.67 Area, Xingdong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, China |
| Type of NS protection: (Typ NA-Schutz) | Integrierter NA-Schutz (Integrated NS protection) |
| Assigned to power generation unit of type: (Zugeordnet zu Erzeugungseinheit Typ) | SOFAR 25KTLX-G3 Bemessungsspannung (Rated voltage) 3/N/PE, 380V/400V Bemessungsfrequenz (Nominal frequency) 50/60 Hz |
| Firmware version: (Firmwareversion) | V000001 |
| Brandname: (Markenname) |  |
| Network connection rule: (Netzanschlussregel) | VDE-AR-N 4105:2018-11 Erzeugungsanlagen am Niederspannungsnetz - Technische Mindestanforderungen für Anschluss und Parallelbetrieb von Erzeugungsanlagen am Niederspannungsnetz (Generators connected to the low-voltage distribution network - Technical minimum requirements for connection and parallel operation of power generation systems connected to the low-voltage network) DIN VDE V 0124-100 (VDE V 0124-100):2020-06 Netzintegration von Erzeugungsanlagen – Niederspannung -Prüfanforderungen an Erzeugungseinheiten vorgesehen zum Anschluss und Parallelbetrieb am Niederspannungsnetz (Network integration of power generation systems – Low voltage - Test requirements for power generation units intended for connection to and parallel operation on the low-voltage network) |
| Test Report No.: (Prüfbericht-Nr.) | 230302181GZU-001 Revision 1 |
| Certificate Issuing Office: (Stelle des ausgestellten Zertifikats) | Intertek Testing Services Ltd. Shanghai West Area, 2 nd 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 |

The network and system protection designated above meets the requirements of VDE-AR-N 4105: 2018.
Der oben bezeichnete Netz- und Anlagenschutz erfüllt die Anforderungen der VDE-AR-N 4105: 2018.

Signature: (Unterschrift)

Certification Manager: Grady Ye

Date (Datum): 18 April 2023



PRD N° 306B

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Dieses Zertifikat ist ausschließlich für den Kunden von Intertek bestimmt und wird gemäß der Vereinbarung zwischen Intertek und seinem Kunden zur Verfügung gestellt. Die Verantwortung und Haftung von Intertek ist auf die Vertragsbedingungen beschränkt. Intertek übernimmt keine Haftung gegenüber anderen Parteien als dem Kunden gemäß der Vereinbarung für Verluste, Kosten oder Schäden, die durch die Verwendung dieses Zertifikats entstehen. Nur der Kunde ist berechtigt, das Kopieren oder Verteilen dieses Zertifikats zuzulassen. Jede Verwendung des Intertek-Namens oder einer seiner Marken für den Verkauf oder die Werbung für das getestete Material, Produkt oder die getestete Dienstleistung muss zuerst von Intertek schriftlich genehmigt werden.

APPENDIX (ANHANG)

Annex to Certificate No. (Anhang zur Zertifikatsnummer): CN-PV-230178

E.7 of (von) VDE-AR-N 4105:2018-11

Requirements for the test report for the NS protection (Anforderungen an den Prüfbericht zum NA-Schutz)

| | | | | | | |
|---|--|---------------------------------|---|--|---------------------------------|--|
| Extract of the test report for NS protection (Auszug aus dem Prüfbericht für den NA-Schutz) "Determination of electrical properties" („Bestimmung der elektrischen Eigenschaften“) | | | | No. (Nr.): 230302181GZU-001 Revision 1 (consecutive no. (laufende Nr.)) | | |
| Test report NS protection (Prüfbericht NA-Schutz) | | | | | | |
| Type of NS Protection: (Typ NA-Schutz) | Integrierter NA-Schutz (Integrated NS protection) | | | Further manufacturer indications (weitere Herstellerangaben) | | |
| Software Version: | V000001 | | | | | |
| Manufacturer: (Hersteller) | Shenzhen SOFARSOLAR Co., Ltd. 11/F., Gaoxinqi Technology Building, No.67 Area, Xingdong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, China | | | | | |
| Measurement Period: (Messzeitraum) | 2023-3-2~2023-3-7 | | | | | |
| | Stirling generators, fuel cells (Stirlinggeneratoren, Brennstoffzellen) Synchronous and asynchronous generators with Pn ≤ 50 kW coupled directly or via inverters (direkt oder über Umrichter gekoppelte Synchron- und Asynchrongeneratoren mit Pn ≤ 50 kW) | | | | | |
| Protective function (Schutzfunktion) | Set value (Einstellwert) | Tripping value (Auslösewert) | Tripping time NS protection * (Auslösezeit NA-Schutz*) | Set value (Einstellwert) | Tripping value (Auslösewert) | Tripping time NS protection * (Auslösezeit NA-Schutz*) |
| Rise-in-voltage protection (Spannungssteigerungsschutz) $U >>$ | 1,15* Un | --- Un | ---ms | 1,15* Un | 1,257 · Un | 87,8 ms |
| Rise-in-voltage protection (Spannungssteigerungsschutz) $U >$ | 1,10* Un | --- Un | ---ms | 1,10* Un | 1,10 · Un | 500,6 s |
| Voltage drop protection (Spannungsrückgangsschutz) $U <$ | 0,8* Un | --- Un | ---ms | 0,8* Un | 0,807 · Un | 3060 ms |
| Voltage drop protection (Spannungsrückgangsschutz) $U <<$ | Not applicable (entfällt) | | | 0,45* Un | 0,451 · Un | 348 ms |
| Frequency decrease protection (Frequenzrückgangsschutz) $f <$ | 47,5 Hz | ---Hz | ---ms | 47,5 Hz | 47,5 Hz | 87,4 ms |
| Frequency increase protection (Frequenzsteigerungsschutz) $f >$ | 51,5 Hz | ---Hz | ---ms | 51,5 Hz | 51,51 Hz | 86,8 ms |

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APPENDIX (ANHANG)

Annex to Certificate No. (Anhang zur Zertifikatsnummer): CN-PV-230178

- * The tripping time includes the period from the limit value violation U/f until the tripping signal to the interface switch.
- * Die Auslösezeit umfasst den Zeitraum von der Grenzwertverletzung U/f bis zum Auslösesignal an den Kuppelschalter.

When planning the power generation system, the response time of the interface switch shall be added to the maximum time value obtained as indicated above.

The disconnection time (sum of tripping time of the NS protection plus response time of the interface switch) shall not exceed 200 ms. Bei der Planung der Erzeugungsanlage ist die Eigenzeit des Kuppelschalters zum höchsten oben ermittelten Zeitwert zu addieren. Die Abschaltzeit (Summe der Auslösezeit NA-Schutz zzgl. Eigenzeit des Kuppelschalters) darf 200 ms nicht überschreiten.

For integrated NS protection (Bei integriertem NA-Schutz)

| | |
|---|--|
| Assigned to power generation unit of type zugeordnet zu Erzeugungseinheit Typ | SOFAR 25KTLX-G3 |
| Type integrated interface switch Typ integrierter Kuppelschalter | (Hongfa) HF167F/12-HF ⁴⁾ (ZETTLER) AZSR190-1AE-12D ⁴⁾ (CHUROD) AZSR190-1AE-12D ⁴⁾ |
| Response time of interface switch for integrated NS protection Eigenzeit des Kuppelschalters bei integriertem NA-Schutz | Max.20ms |
| Verification of the entire functional chain "integrated NS protection – interface switch" has resulted in successful disconnection. Die Überprüfung der Gesamtwirkungskette „integrierter NA-Schutz – Kuppelschalter“ führte zu einer erfolgreichen Abschaltung. | |

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Certificate of Conformity

Certificate Number: CN-PV-210246

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 25KTLX-G3, SOFAR 30KTLX-G3, SOFAR 30KTLX-G3-A
SOFAR 33KTLX-G3, SOFAR 36KTLX-G3, SOFAR 40KTLX-G3,
SOFAR 45KTLX-G3, SOFAR 50KTLX-G3, SOFAR 40KTLX-G3-HV
SOFAR 50KTLX-G3-HV

Brand Name: 

Specification/Standard: France_UTE_C_15_712-1: July 2013
DIN V VDE V 0126-1-1:2013.08 Automatic disconnecting device
Compliant with VFR 2019

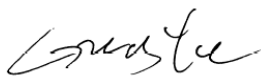
Certificate Issuing Office Name & Address: Intertek Testing Services Ltd. Shanghai
West Area, 2nd Floor, No. 707, Zhangyang Road China (Shanghai) Pilot Free
Trade Zone, Shanghai, P. R. China
Accredited by China National Accreditation Service for Conformity
Assessment (CNAS C058-P) in accordance with ISO/IEC 17065:2012

Test Report Number: 210819145GZU-001, 210819145GZU-002

Certification procedure: SMS-PV-OP-19

Product certification scheme type: Type test

Additional information in Appendix.



Signature

Certification Manager: Grady Ye
Date: 25 October 2021



中国认可
国际互认
产品
PRODUCT
CNAS C058-P

APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-210246

| Model | SOFAR 25KTLX-G3 | SOFAR 30KTLX-G3 | SOFAR 30KTLX-G3-A |
|-------------------------------|----------------------|--------------------|----------------------|
| Max. DC input Voltage | 1100Vdc | | |
| Operating MPPT voltage range | 180Vdc – 1000Vdc | | |
| Max. Input current | 40A*3 | | |
| PV Isc | 50A*3 | | |
| Nominal AC output voltage | 3/N/PE 230Vac/400Vac | | |
| Nominal AC output Frequency | 50Hz | | |
| Max. AC output current | 42.4A | 51.5A | 45.3A |
| Nominal Output power | 25000W | 30000W | 29900W |
| Max. Output Power | 28000VA | 34000VA | 29900VA |
| Power factor | 1(adjustable +/-0.8) | | |
| Safety level | Class I | | |
| Ingress Protection | IP 65 | | |
| 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-210246

| Model | SOFAR 33KTLX-G3 | SOFAR 36KTLX-G3 | SOFAR 40KTLX-G3 |
|-------------------------------|----------------------|--------------------|--------------------|
| Max. DC input Voltage | 1100Vdc | | |
| Operating MPPT voltage range | 180Vdc – 1000Vdc | | |
| Max. Input current | 40A*3 | | 40A*4 |
| PV Isc | 50A*3 | | 50A*4 |
| Nominal AC output voltage | 3/N/PE 230Vac/400Vac | | |
| Nominal AC output Frequency | 50Hz | | |
| Max. AC output current | 56A | 60.6A | 66.7A |
| Nominal Output power | 33000W | 36000W | 40000W |
| Max. Output Power | 37000VA | 40000VA | 44000VA |
| Power factor | 1(adjustable +/-0.8) | | |
| Safety level | Class I | | |
| Ingress Protection | IP 65 | | |
| 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-210246

| Model | SOFAR 45KTLX-G3 | SOFAR 50KTLX-G3 | SOFAR 40KTLX-G3-HV | SOFAR 50KTLX-G3-HV |
|-------------------------------|-----------------------|--------------------|-----------------------|-----------------------|
| Max. DC input Voltage | 1100Vdc | | | |
| Operating MPPT voltage range | 180Vdc – 1000Vdc | | | |
| Max. Input current | 40A*4 | | 40A*3 | 40A*4 |
| PV Isc | 50A*4 | | 50A*3 | 50A*4 |
| Nominal AC output voltage | 3/N/PE 230Vac/400Vac | | 3/N/PE 277Vac/480Vac | |
| Nominal AC output Frequency | 50Hz | | | |
| Max. AC output current | 75.8A | 83.3A | 53.0A | 66.2A |
| Nominal Output power | 45000W | 50000W | 40000W | 50000W |
| Max. Output Power | 50000VA | 55000VA | 44000VA | 55000VA |
| Power factor | 1 (adjustable +/-0.8) | | | |
| Safety level | Class I | | | |
| Ingress Protection | IP 65 | | | |
| Operation Ambient Temperature | -30°C - 60°C | | | |
| Software version | V000001 | | | |

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