

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



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℃~+60℃						
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 of Conformity

By the product certificate number

No. 2621/0362-3-E1-B-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.

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 A.13 IE of the standard EN 50438:2013.

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



SGS Tecnos, S.A. C/ Trespaderne, 29 - 28042 Madrid

This certificate is issued by SGS under its General Conditions

for Product Certification at www.sgs.com/terms_and_conditions.

The status and validity of the certificate can be checked scanning the
QR code above included or through the following web link database:

<https://www.sgs.com/en/certified-clients-and-products/electrical-products>

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

Page 1 of 2

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				





VERIFICATION OF COMPLIANCE

No.: GZES2208014829PV

Applicant: Shenzhen SOFARSOLAR Co., Ltd.
11/F., Gaoxinqi Technology Building, No. 67 Area, Xingdong Community, Xin'an Sub-district, Bao'an District, Shenzhen, Guangdong, China

Manufacturer: Shenzhen SOFARSOLAR Co., Ltd.
11/F., Gaoxinqi Technology Building, No. 67 Area, Xingdong Community, Xin'an Sub-district, Bao'an District, Shenzhen, Guangdong, China

Product Name: Solar Grid-tied Inverter

Product Description: Inverter used in PV system

Model No.: SOFAR 50KTLX-G3, SOFAR 25KTLX-G3, SOFAR 30KTLX-G3, SOFAR 30KTLX-G3-A, SOFAR 33KTLX-G3, SOFAR 36KTLX-G3, SOFAR 40KTLX-G3, SOFAR 45KTLX-G3, SOFAR 40KTLX-G3-HV, SOFAR 50KTLX-G3-HV

Trade Mark: 

Rating: Refer to page 2 to page 3

Protection against Electric Shock: Class I

Additional Information (if any): IP 65
Software version: V000001

Sufficient samples of the product have been tested and found to be in conformity with

Test Standard: Engineering Recommendation G99/NI Issue 1 April 2019

as shown in the

Test Report Number(s): GZES220801482901

This Verification of Compliance has been granted to the applicant based on the results of tests, performed by Laboratory of SGS-CSTC Standards Technical Services Co., Ltd. on sample of the above-mentioned product in accordance with the provisions of the relevant specific standards.

David Guo

Senior Technical Manager
SGS-CSTC

2022-10-13

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Member of SGS Group (Société Générale de Surveillance)



No.:

GZES2208014829PV

Other information added:

Rating:

Model	SOFAR 40KTLX-G3	SOFAR 45KTLX-G3	SOFAR 50KTLX-G3	SOFAR 40KTLX-G3-HV	SOFAR 50KTLX-G3-HV
PV String Input Data					
Max. DC voltage	1100V				
MPPT voltage range	180~1000V				
Full power MPPT voltage range	480~850V	510~850V	540~850V	620~850V	650~850V
Max. input current	4*40A	4*40A	4*40A	3*40A	4*40A
Max. short current	4*50A	4*50A	4*50A	3*50A	4*50A
AC Output Data					
Nominal AC power	40000W	45000W	50000W	40000W	50000W
Max. AC power	44000VA	50000VA	55000VA	44000VA	55000VA
Rated output current	58.0A	65.2A	72.5A	48.1A	60.2A
Max. output current	66.7A	75.8A	83.3A	53A	66.2A
Nominal grid voltage	3/N/PE, 230Vac			3/N/PE or 3/PE 277/480Vac	
Nominal output frequency	50Hz				
Output power factor	1(0.8 leading to 0.8 lagging)				
Ingress protection	IP65				
Protective class	Class I				
Cooling method	Fan	Fan	Fan	Fan	Fan

David Guo

Senior Technical Manager
SGS-CSTC



2022-10-13

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VERIFICATION OF COMPLIANCE

No.: GZESS2206011668PV

Applicant: Shenzhen SOFARSOLAR Co., Ltd.
11/F., Gaoxinqi Technology Building, No. 67 Area, Xingdong Community, Xin'an Sub-district, Bao'an District, Shenzhen, Guangdong, China.

Manufacturer: Shenzhen SOFARSOLAR Co., Ltd.
11/F., Gaoxinqi Technology Building, No. 67 Area, Xingdong Community, Xin'an Sub-district, Bao'an District, Shenzhen, Guangdong, China.

Product Name: Solar Grid-tied Inverter

Product Description: Inverter used in PV system

Model No.: SOFAR 50KTLX-G3, SOFAR 25KTLX-G3, SOFAR 30KTLX-G3, SOFAR 30KTLX-G3-A, SOFAR 33KTLX-G3, SOFAR 36KTLX-G3, SOFAR 40KTLX-G3, SOFAR 45KTLX-G3, SOFAR 40KTLX-G3-HV, SOFAR 50KTLX-G3-HV

Trade Mark: 

Rating: Refer to page 2 to page 3

Protection against Electric Shock: Class I

Additional Information (if any): IP 65
Software version: V000001

Sufficient samples of the product have been tested and found to be in conformity with

Test Standard: ENA Engineering Recommendation G99 Issue 1 Amendment 8,
01 September 2021

as shown in the

Test Report Number(s): GZES220601166801

This Verification of Compliance has been granted to the applicant based on the results of tests, performed by Laboratory of SGS-CSTC Standards Technical Services Co., Ltd. on sample of the above-mentioned product in accordance with the provisions of the relevant specific standards.

David Guo

Senior Technical Manager

SGS-CSTC

2022-07-01

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No.:

GZESS2206011668PV

Other information added:

Rating:

Model	SOFAR 25KTLX-G3	SOFAR 30KTLX-G3	SOFAR 30KTLX-G3-A	SOFAR 33KTLX-G3	SOFAR 36KTLX-G3
PV String Input Data					
Max. DC voltage	1100V				
MPPT voltage range	180~1000V				
Full power MPPT voltage range	480~850V	480~850V	480~850V	510~850V	540~850V
Max. input current	3*40A	3*40A	3*40A	3*40A	3*40A
Max. short current	3*50A	3*50A	3*50A	3*50A	3*50A
AC Output Data					
Nominal AC power	25000W	30000W	29900W	33000W	36000W
Max. AC power	28000VA	34000VA	29900VA	37000VA	40000VA
Rated output current	36.2A	43.5A	43.3A	47.8A	52.2A
Max. output current	42.4A	51.5A	45.3A	56A	60.6A
Nominal grid voltage	3/N/PE, 230Vac				
Nominal output frequency	50Hz				
Output power factor	1(0.8 leading to 0.8 lagging)				
Ingress protection	IP65				
Protective class	Class I				
Cooling method	Fan	Fan	Fan	Fan	Fan

David Guo
Senior Technical Manager
SGS-CSTC



2022-07-01

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No.:

GZESS2206011668PV

Other information added:

Rating:

Model	SOFAR 40KTLX-G3	SOFAR 45KTLX-G3	SOFAR 50KTLX-G3	SOFAR 40KTLX-G3-HV	SOFAR 50KTLX-G3-HV
PV String Input Data					
Max. DC voltage	1100V				
MPPT voltage range	180~1000V				
Full power MPPT voltage range	480~850V	510~850V	540~850V	620~850V	650~850V
Max. input current	4*40A	4*40A	4*40A	3*40A	4*40A
Max. short current	4*50A	4*50A	4*50A	3*50A	4*50A
AC Output Data					
Nominal AC power	40000W	45000W	50000W	40000W	50000W
Max. AC power	44000VA	50000VA	55000VA	44000VA	55000VA
Rated output current	58.0A	65.2A	72.5A	48.1A	60.2A
Max. output current	66.7A	75.8A	83.3A	53A	66.2A
Nominal grid voltage	3/N/PE, 230Vac			3/N/PE or 3/PE 277/480Vac	
Nominal output frequency	50Hz				
Output power factor	1(0.8 leading to 0.8 lagging)				
Ingress protection	IP65				
Protective class	Class I				
Cooling method	Fan	Fan	Fan	Fan	Fan

David Guo

Senior Technical Manager

SGS-CSTC



2022-07-01

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Certificate

of Conformity

Registered No.:

COCPPV07047/21B-02_R1

File reference

PVP07047/21B-03

PVP07047/21B-04

Test report No.

TRPVP07047/21B/03_R1

TRPVP07047/21B/04_R1

Date of issue

2021-11-08

On the basis of the tests undertaken, the samples of the below product(s) have been found to comply with the essential requirements of the referenced specifications at the time the tests were carried out:

Applicant:

Shenzhen SOFARSOLAR Co., Ltd.

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

Manufacturer:

Shenzhen SOFARSOLAR Co., Ltd.

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

Factory:

Coded by debtor no. 55513462

Product:

Solar Grid-tied Inverter

Type designation:

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

Three-phase, Firmware version: V000001

Certification program:

BOS-P-01 Rev. 00

Certification fundamental(s): IEC 61683:1999, IEC 60068-2-1:2007, IEC 60068-2-2:2007, IEC 60068-2-14:2009, and IEC 60068-2-30:2005

See test report for detailed information.

This document is based on the evaluation of the samples of the above mentioned product(s). It does not imply an assessment of the mass-production of the product(s), and it does not permit the use of a TÜV NORD mark. The holder of this document may use it in connection with the related test report(s).

This certificate replaces certificate no. COCPVP07047/21B-02 due to modification of information. With issuance of this certificate, certificate no. COCPVP07047/21B-02 is therefore void.



Renewable Energy

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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-DG2190262D01

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 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):

Applied Standards:	Report No.:
IEC 60255-27: 2013	BL-DG2190262-B01



Certificate of Conformity

Registered No.:

COCPPV07047/21B-01_R1

File reference
PVP07047/21B-02

Test report No.
TRPVP07047/21B/02_R1

Date of issue
2021-11-08

On the basis of the tests undertaken, the samples of the below product(s) have been found to comply with the essential requirements of the referenced specifications at the time the tests were carried out:

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

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

Factory: **Coded by debtor no. 55513462**

Product: Solar Grid-tied Inverter

Type designation: 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
Three-phase, Firmware version: V000001

Certification program: BOS-P-01 Rev. 00

Certification fundamental(s): IEC 61727:2004, IEC 62116:2014
See test report for detailed information.

This document is based on the evaluation of the samples of the above mentioned product(s). It does not imply an assessment of the mass-production of the product(s), and it does not permit the use of a TÜV NORD mark. The holder of this document may use it in connection with the related test report(s).

This certificate replaces certificate no. COCPVP07047/21B-01 due to modification of information. With issuance of this certificate, certificate no. COCPVP07047/21B-01 is therefore void.



Renewable Energy

BOS-T-015 COC



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PRODUCT
CNAS C183-P

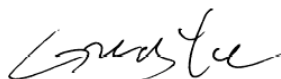
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Certificate of Conformity

Certificate Number: CN-PV-210227

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:	NRS 097-2-1:2017 Edition 2.1 GRID INTERCONNECTION OF EMBEDDED GENERATION PART 2: SMALL-SCALE EMBEDDED GENERATION SECTION 1: UTILITY INTERFACE
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:	210819147GZU-001
Additional information in Appendix.	



Signature

Certification Manager: Grady Ye

Date: 28 September 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-210227

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-210227

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-210227

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			
PV Isc	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℃ - 60℃			
Software version	V000001			

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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-DG2190261D01

Applicant: Shenzhen SOFARSOLAR Co., Ltd.

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

Manufacture: Shenzhen SOFARSOLAR Co., Ltd.

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

Product: Solar Grid-tied Inverter

Brand name:  **SOFAR**
SOFAR 25KTLX-G3, SOFAR 30KTLX-G3, SOFAR 30KTLX-G3-A,
SOFAR 33KTLX-G3, SOFAR 36KTLX-G3, SOFAR 40KTLX-G3,
Model name: 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) :

Applied Standards:	Report No.:
NRS 097-2-1:2017 Edition 2.1	BL-DG2190261-401



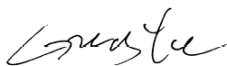
Certificate of Conformity

Certificate Number: CN-PV-210252

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: Ratings & Principle Characteristics:	Solar Grid-tied Inverter 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:	TOR Erzeuger Typ A Version 1.1:12.12.2019 OVE-Richtlinie R 25:2020-03-01 Connection and parallel operation of power generation plants of type A and of small generation plants (maximum capacity <250 kW and nominal voltage <110kV)
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:	210819144GZU-001

Certification procedure: SMS-PV-OP-19
Product certification scheme type: Type test
Additional information in Appendix.



Signature

Certification Manager: Grady Ye

Date: 4 November 2021



中国认可
国际互认
产品
PRODUCT
CNAS C058-P

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APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-210252

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-210252

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		

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-210252

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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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.



The CE marking may be affixed on the product if all relevant and effective Directives are complied with.



ANNEX

Annex 1, Page 1 of 12

to Certificate registration no. 44 799 21 406749 - 124R1

Description of product(s):

Model type	SOFAR 25KTLX-G3		
General information			
Type of inverter	Transformer-less	Separated by.....	Non-isolated
Safety Class	Class I	IP grade.....	IP65
Over-voltage Category.....	II (PV) III (AC mains)	Pollution degree	External:3 Internal:2
Operating temperature.....	-30°C~60°C (>50°C power derating)	Maximum Altitude.....	4000m
Weight.....	36kg	Dimension (W x H x D)	585*480*220mm
Hardware Version	V102	Software Version.....	V000001
PV input			
Vmax.....	1100V	Isc.....	3*50A
MPP voltage range	180-1000V	Number of MPPT tracking.....	3
Max. input current.....	3*40A		
AC output			
Rated Output Voltage	380/400V, 3/N/PE	Rated Output Frequency.....	50/60Hz
Rated output power.....	25000W	Max. apparent power	28000VA



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Essen, 2021-11-08

ANNEX

Annex 1, Page 2 of 12

to Certificate registration no. 44 799 21 406749 - 124R1

Max. output current	42.4A	Power factor	1 (adjustable+/-0.8)
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Model type	SOFAR 30KTLX-G3
------------------	-----------------

General information

Type of inverter	Transformer-less	Separated by	Non-isolated
Safety Class	Class I	IP grade	IP65
Over-voltage Category	II (PV) III (AC mains)	Pollution degree	External:3 Internal:2
Operating temperature	-30°C~60°C (>50°C power derating)	Maximum Altitude	4000m
Weight	36kg	Dimension (W x H x D)	585*480*220mm
Hardware Version	V102	Software Version	V000001

PV input

Vmax	1100V	Isc	3*50A
MPP voltage range	180-1000V	Number of MPPT tracking	3
Max. input current	3*40A		

AC output



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Essen, 2021-11-08

ANNEX

Annex 1, Page 3 of 12

to Certificate registration no. 44 799 21 406749 - 124R1

Rated Output Voltage	380/400V, 3/N/PE	Rated Output Frequency	50/60Hz
Rated output power.....	30000W	Max. apparent power	34000VA
Max. output current	51.5A	Power factor.....	1 (adjustable+/-0.8)

Model type	SOFAR 33KTLX-G3		
General information			
Type of inverter	Transformer-less	Separated by	Non-isolated
Safety Class	Class I	IP grade	IP65
Over-voltage Category.....	II (PV) III (AC mains)	Pollution degree	External:3 Internal:2
Operating temperature.....	-30°C~60°C (>50°C power derating)	Maximum Altitude	4000m
Weight.....	36kg	Dimension (W x H x D)	585*480*220mm
Hardware Version	V102	Software Version	V000001
PV input			
Vmax.....	1100V	Isc	3*50A



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Essen, 2021-11-08

ANNEX

Annex 1, Page 4 of 12

to Certificate registration no. 44 799 21 406749 - 124R1

MPP voltage range	180-1000V	Number of MPPT tracking	3
Max. input current.....	3*40A		
AC output			
Rated Output Voltage	380/400V, 3/N/PE	Rated Output Frequency	50/60Hz
Rated output power.....	33000W	Max. apparent power	37000VA
Max. output current.....	56A	Power factor.....	1 (adjustable+/-0.8)

Model type	SOFAR 30KTLX-G3-A		
General information			
Type of inverter	Transformer-less	Separated by	Non-isolated
Safety Class	Class I	IP grade	IP65
Over-voltage Category.....	II (PV) III (AC mains)	Pollution degree.....	External:3 Internal:2
Operating temperature.....	-30°C~60°C (>50°C power derating)	Maximum Altitude	4000m
Weight.....	36kg	Dimension (W x H x D)	585*480*220mm



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Balance of System (BOS) for Photovoltaics

Essen, 2021-11-08

ANNEX

Annex 1, Page 5 of 12

to Certificate registration no. 44 799 21 406749 - 124R1

Hardware Version	V102	Software Version	V000001
PV input			
Vmax.....	1100V	Isc	3*50A
MPP voltage range	180-1000V	Number of MPPT tracking	3
Max. input current.....	3*40A		
AC output			
Rated Output Voltage	380/400V, 3/N/PE	Rated Output Frequency	50/60Hz
Rated output power.....	29900W	Max. apparent power	29900VA
Max. output current	45.3A	Power factor.....	1 (adjustable+/-0.8)

Model type	SOFAR 36KTLX-G3		
General information			
Type of inverter	Transformer-less	Separated by	Non-isolated
Safety Class	Class I	IP grade	IP65
Over-voltage Category	II (PV) III (AC mains)	Pollution degree	External:3 Internal:2



ANNEX

Annex 1, Page 6 of 12

to Certificate registration no. 44 799 21 406749 - 124R1

Operating temperature.....:	-30°C~60°C (>50°C power derating)	Maximum Altitude	4000m
Weight.....:	36kg	Dimension (W x H x D)	585*480*220mm
Hardware Version	V102	Software Version	V000001
PV input			
Vmax.....:	1100V	Isc	3*50A
MPP voltage range	180-1000V	Number of MPPT tracking	3
Max. input current.....:	3*40A		
AC output			
Rated Output Voltage	380/400V, 3/N/PE	Rated Output Frequency	50/60Hz
Rated output power.....:	36000W	Max. apparent power	40000VA
Max. output current.....:	60.6A	Power factor.....:	1 (adjustable+/-0.8)

Model type	SOFAR 40KTLX-G3		
General information			
Type of inverter	Transformer-less	Separated by	Non-isolated



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Essen, 2021-11-08

ANNEX

Annex 1, Page 7 of 12

to Certificate registration no. 44 799 21 406749 - 124R1

Safety Class.....:	Class I	IP grade	IP65
Over-voltage Category.....:	II (PV) III (AC mains)	Pollution degree.....:	External:3 Internal:2
Operating temperature.....:	-30°C~60°C (>50°C power derating)	Maximum Altitude	4000m
Weight.....:	37kg	Dimension (W x H x D).....:	585*480*220mm
Hardware Version	V102	Software Version	V000001
PV input			
Vmax.....:	1100V	Isc	4*50A
MPP voltage range	180-1000V	Number of MPPT tracking	4
Max. input current.....:	4*40A		
AC output			
Rated Output Voltage	380/400V, 3/N/PE	Rated Output Frequency	50/60Hz
Rated output power.....:	40000W	Max. apparent power	44000VA
Max. output current.....:	66.7A	Power factor.....:	1 (adjustable+/-0.8)



ANNEX

Annex 1, Page 8 of 12

to Certificate registration no. 44 799 21 406749 - 124R1

Model type	SOFAR 45KTLX-G3		
General information			
Type of inverter	Transformer-less	Separated by	Non-isolated
Safety Class	Class I	IP grade	IP65
Over-voltage Category	II (PV) III (AC mains)	Pollution degree	External:3 Internal:2
Operating temperature	-30°C~60°C (>50°C power derating)	Maximum Altitude	4000m
Weight	37kg	Dimension (W x H x D)	585*480*220mm
Hardware Version	V102	Software Version	V000001
PV input			
Vmax	1100V	Isc	4*50A
MPP voltage range	180-1000V	Number of MPPT tracking	4
Max. input current	4*40A		
AC output			
Rated Output Voltage	380/400V, 3/N/PE	Rated Output Frequency	50/60Hz
Rated output power	45000W	Max. apparent power	50000VA



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Balance of System (BOS) for Photovoltaics

Essen, 2021-11-08

ANNEX

Annex 1, Page 9 of 12

to Certificate registration no. 44 799 21 406749 - 124R1

Max. output current.....:	75.8A	Power factor.....:	1 (adjustable+/-0.8)
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Model type	SOFAR 50KTLX-G3		
General information			
Type of inverter	Transformer-less	Separated by	Non-isolated
Safety Class	Class I	IP grade	IP65
Over-voltage Category.....	II (PV) III (AC mains)	Pollution degree.....	External:3 Internal:2
Operating temperature.....	-30°C~60°C (>50°C power derating)	Maximum Altitude	4000m
Weight.....	37kg	Dimension (W x H x D)	585*480*220mm
Hardware Version	V102	Software Version	V000001
PV input			
Vmax.....	1100V	Isc	4*50A
MPP voltage range	180-1000V	Number of MPPT tracking	4
Max. input current.....	4*40A		
AC output			



ANNEX

Annex 1, Page 10 of 12

to Certificate registration no. 44 799 21 406749 - 124R1

Rated Output Voltage	380/400V, 3/N/PE	Rated Output Frequency	50/60Hz
Rated output power.....	50000W	Max. apparent power	55000VA
Max. output current	83.3A	Power factor.....	.1 (adjustable+/-0.8)

Model type	SOFAR 40KTLX-G3-HV		
General information			
Type of inverter	Transformer-less	Separated by	Non-isolated
Safety Class	Class I	IP grade	IP65
Over-voltage Category.....	II (PV) III (AC mains)	Pollution degree.....	External:3 Internal:2
Operating temperature.....	-30°C~60°C (>50°C power derating)	Maximum Altitude	4000m
Weight.....	37kg	Dimension (W x H x D)	585*480*220mm
Hardware Version	V102	Software Version	V000001
PV input			
Vmax.....	1100V	Isc	3*50A



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Balance of System (BOS) for Photovoltaics

Essen, 2021-11-08

ANNEX

Annex 1, Page 11 of 12

to Certificate registration no. 44 799 21 406749 - 124R1

MPP voltage range	180-1000V	Number of MPPT tracking	3
Max. input current.....	3*40A		
AC output			
Rated Output Voltage	480V, 3/N/PE	Rated Output Frequency	50/60Hz
Rated output power.....	40000W	Max. apparent power	44000VA
Max. output current	53A	Power factor.....	1 (adjustable+/-0.8)

Model type	SOFAR 50KTLX-G3-HV		
General information			
Type of inverter	Transformer-less	Separated by	Non-isolated
Safety Class	Class I	IP grade	IP65
Over-voltage Category.....	II (PV) III (AC mains)	Pollution degree.....	External:3 Internal:2
Operating temperature.....	-30°C~60°C (>50°C power derating)	Maximum Altitude	4000m
Weight.....	37kg	Dimension (W x H x D)	585*480*220mm



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

Essen, 2021-11-08

ANNEX

Annex 1, Page 12 of 12

to Certificate registration no. 44 799 21 406749 - 124R1

Hardware Version	V102	Software Version	V000001
PV input			
Vmax.....	1100V	Isc	4*50A
MPP voltage range	180-1000V	Number of MPPT tracking	4
Max. input current.....	4*40A		
AC output			
Rated Output Voltage	480V, 3/N/PE	Rated Output Frequency	50/60Hz
Rated output power.....	50000W	Max. apparent power	55000VA
Max. output current	66.2A	Power factor.....	1 (adjustable+/-0.8)

Remark:

For detailed product information, please refer to CDF (Constructional Data Form) in Annex 1 of test report.



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

Essen, 2021-11-08

Certificado de Conformidad

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

Nº 2621/0362-4-E1-B-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 los requisitos de la regulación / Is in compliance with the requirements of regulation:

- RD 647/2020, de 7 de julio, por el que se regulan aspectos necesarios para la implementación de los códigos de red de conexión de determinadas instalaciones eléctricas. (*)

(*) **Observación:** Siendo **SOLO** certificados los requisitos para funciones de protección ante variaciones anormales de tensión y frecuencia, auto reconexión y factor de potencia en la red según viene definido en el Real Decreto 647/2020. / (*) **Remark:** Being **ONLY** certified the protective functions requirements for voltage and frequency abnormal variations, Self-reconnection and Power Factor in the grid stated in the Real Decreto 647/2020

El equipo antes mencionado está certificado conforme con el procedimiento interno 4 de SGS de acuerdo con los requisitos de la norma UNE-EN ISO/IEC 17065. / IEC 17065 / The above-mentioned generating unit is certified according to the SGS internal procedure 4 based on the requirements of the UNE-EN ISO.

Este certificado cancela y sustituye el certificado nº 2621/0362-4-E1-B-CER. / This certificate cancels and supersedes the certificate nº 2621/0362-4-E1-B-CER.

This certificate is first issued on 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				



VERIFICATION OF RED COMPLIANCE

Verification No.: GZCR2206000788PVV
 Applicant: Shenzhen SOFARSOLAR Co., Ltd.
 Address of Applicant: 11/F., Gaoxingqi Technology Building, No.67 Area, Xingdong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, China
 Manufacturer: The same as the applicant
 Address of Manufacturer: The same as the applicant
 Factory: Dongguan SOFAR SOLAR Co., Ltd.
 Address of Factory: 1F - 6F, Building E, No. 1 JinQi Road, Bihu Industrial Park, Wulian Village, Fenggang Town, Dongguan City, Guangdong, China
 Product Description: Solar Grid-tied Inverter
 Model No.: 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
 Trade Mark: 
 Sufficient samples of the product have been tested and found to be in conformity with
 Test Standards: EN 301 489-1 V2.2.3, EN 301 489-17 V3.2.4
 EN 300 328 V2.2.2, EN 62479: 2010
 As shown in the
 Test Report Number(s): GZCR220600078801, GZCR220600078802
 GZCR220600078803

Based on a review of the test report(s) detailed above, this apparatus meets the requirements of above standards. The product is in conformity with the essential requirements of Article 3.1 (a) the protection of the health, 3.1 (b) an adequate level of electromagnetic compatibility and 3.2 effective use of the spectrum of 2014/53/EU.

The CE mark as shown below can be used, under the responsibility of the manufacturer, after completion of an EU Declaration of Conformity and compliance with all relevant EU Directives.



Date: 2022-07-28

Test Verification of Conformity

Verification Number: 211108059GZU-VOC006

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
Product Description:	Inverter
Ratings & Principle Characteristics:	NA
Models/Type References:	SOFAR 50KTLX-G3, SOFAR 25KTLX-G3, SOFAR 30KTLX-G3, SOFAR 30KTLX-G3-A, SOFAR 33KTLX-G3, SOFAR 36KTLX-G3, SOFAR 40KTLX-G3, SOFAR 45KTLX-G3, SOFAR 40KTLX-G3-HV, SOFAR 50KTLX-G3-HV
Brand Name:	
Relevant Standards/Directives:	This verification and corresponding evaluation report is considered to constitute technical documentation sufficient for an EC Declaration of Conformity and CE marking of the product according to Directive 2011/65/EU and (EU) 2015/863 of the European Parliament and of the Council with regard to the restriction of the use of certain hazardous substances in electrical and electronic equipment.
Verification Issuing Office Name & Address:	Intertek Testing Services Shenzhen Ltd. Guangzhou Branch Room 02, 1-8F. & Room 01, 101/E201/E301/E401/E501/E601/E701/E801, No.7-2, Caipin Road, Science City, GETDD, Guangzhou, Guangdong, China.
Date of Tests:	Nov 9, 2021 to Jan 11, 2022
Test Report Number(s):	211108059GZU-006

Signature 

Name: Hay.zhao
Position: Engineer
Date: 18 May, 2022

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Test Verification of Conformity

Verification Number: 230621168GZU-VOC001

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., Gaoxingqi Technology Building, No.67 Area, Xingdong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, China
Product Description:	Solar Grid-tied Inverter
Models/Type References:	SOFAR 30KTLX-G3-LV
Ratings & Principle	See Appendix
Characteristics:	
Brand Name:	
Relevant Standards/Directives:	EN IEC 61000-6-4:2019 EN IEC 61000-6-2:2019 EMC Directive 2014/30/EU
Verification Issuing Office Name & Address:	Intertek Testing Services Shenzhen Ltd. Guangzhou Branch Room 02, & 101/E201/E301/E401/E501/E601/E701/E801 of Room 01 1-8/F., No. 7-2. Caipin Road, Science City, GETDD, Guangzhou, Guangdong, China
Date of Tests:	04 September 2023 to 02 November 2023
Test Report Number(s):	230621168GZU-001
Remark:	This new VOC supersedes the original test report dated 06 November 2023 due to correct the model rating.
Additional information in Appendix.	



Signature

Name: Sky Zhu

Position: Team Leader

Date: 13 November 2023

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APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 230621168GZU-VOC001.

Ratings & Principle
Characteristics:

Model	SOFAR 30KTLX-G3-LV
Max. DC input voltage	1100Vd.c.
MPP Voltage Range	180-800Vd.c.
Max. Input current	4*40A
Max. PV Isc	4*50A
Nominal Grid voltage	3/N/PE, 127/220Va.c.
Max. Output Current	78.8A
Nominal Grid frequency	50/60Hz
Rated output Power	30000W
Max. Apparent power	30000VA
Power Factor	1(adjustable +/-0.8)
Ingress Protection	IP65
Protective Class	Class I
Software version	V000001
Operation Ambient Temperature	-30°C - 60°C



Signature

Name: Sky Zhu

Position: Team Leader

Date: 13 November 2023

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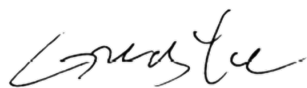
Certificate of Conformity

Certificate Number: CN-PV-230592

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 30KTLX-G3-LV
Brand Name<s>:	
Product Complies with:	IEC 61727:2004 Photovoltaic (PV) systems – Characteristics of the utility interface IEC 62116:2014 Test procedure of islanding prevention measures for utility-interconnected photovoltaic inverters
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 Accredited by ACCREDIA in accordance with ISO/IEC 17065:2012
Test Report No.<s>:	230621152GZU-004, 230621152GZU-005, 25 Oct 2023

Additional information in Appendix.



Signature

Certification Manager: Grady Ye
Date: 27 Oct. 2023



PRD N° 306B

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APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-230592

Model	SOFAR 30KTLX-G3-LV
Max. DC input voltage	1100Vd.c.
MPP Voltage Range	180-800Vd.c.
Max. Input current	4*40A
Max. PV Isc	4*50A
Nominal Grid voltage	3/N/PE, 127/220Va.c.
Max. Output Current	78.8A
Nominal Grid frequency	50/60Hz
Rated output Power	30000W
Max. Apparent power	30000VA
Power Factor	1(adjustable +/-0.8)
Ingress Protection	IP65
Protective Class	Class I
Software version	V000001
Operation Ambient Temperature	-30°C - 60°C

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.

CERTIFICATE

of Conformity

Registration No.: AK 50602908 0001
Report No.: CN235D8U 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)

Type designation and serial number are listed on the next page

The certificate of conformity refers to the above-mentioned product. This is to certify that the specimen is in conformity with the assessment requirement mentioned on the next page. This certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity.

Date: 2023-09-27

Certification Body

Tongle Lee

Tongle Lee



TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

CERTIFICATE

of Conformity

Registration No.: AK 50602908 0001

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

Tested according to: IEC/TS 61000-3-4:1998
IEC/TS 61000-3-5:2009

Identification: Type Designation
SOFAR 30KTLX-G3-LV
Serial No.:
n.a.
Remark:
Refer to above-listed test report for details.



TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

Test Verification of Conformity

Verification Number: 230621152GZU-VOC001

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.
Product Description:	11/F., Gaoxinqi Technology Building, No.67 Area, Xingdong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, China
Ratings & Principle Characteristics:	See Appendix: Test Verification of Conformity
Models/Type References:	SOFAR 30KTLX-G3-LV
Brand Name:	
Relevant Standards/Directives:	IEC/EN 62109-1: 2010 Safety of power converters for use in photovoltaic power systems – Part 1: General requirements IEC/EN 62109-2: 2011 Safety of power converters for use in photovoltaic power systems – Part 2: Particular requirements for inverters Low Voltage Directive 2014/35/EU
Verification Issuing Office Name & Address:	Intertek Testing Services Shenzhen Ltd. Guangzhou Branch. Room 02, & 101/E201/E301/E401/E501/E601/E701/E801 of Room 01 1-8/F., No. 7-2. Caipin Road, Science City, GETDD, Guangzhou, Guangdong, China
Date of Tests:	07 Jul 2023 to 13 Aug 2023
Test Report Number(s):	230621152GZU-001 dated 25 Oct 2023, 230621152GZU-002 dated 25 Oct 2023
Additional information in Appendix.	



Signature

Name: Drewe Zhou

Position: Reviewer

Date: 26 October 2023

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APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 230621152GZU-VOC001.

Model	SOFAR 30KTLX-G3-LV
Max. DC input voltage	1100Vd.c.
MPP Voltage Range	180-800Vd.c.
Max. Input current	4*40A
Max. PV Isc	4*50A
Nominal Grid voltage	3/N/PE, 127/220Va.c.
Max. Output Current	78.8A
Nominal Grid frequency	50/60Hz
Rated output Power	30000W
Max. Apparent power	30000VA
Power Factor	1(adjustable +/-0.8)
Ingress Protection	IP65
Protective Class	Class I
Software version	V000001
Operation Ambient Temperature	-30°C - 60°C



Signature

Name: Drewe Zhou

Position: Reviewer

Date: 26 October 2023

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