



Product Service

CERTIFICATE

No. Z2 099333 0045 Rev. 19

Holder of Certificate: **LONGi Green Energy Technology Co., Ltd.**

No. 388, Middle Hangtian Road
Chang'an District
710100 Xi'an City, Shaanxi
PEOPLE'S REPUBLIC OF CHINA

Certification Mark:



Product:

Crystalline Silicon Terrestrial Photovoltaic (PV) Modules
Mono-Crystalline Silicon Photovoltaic Module

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the testing and certification regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 704061700516-19

Valid until: 2027-03-17

Date, 2022-03-18

(Zhulin Zhang)

CERTIFICATE

No. Z2 099333 0045 Rev. 19

Model(s):

LR6-72HV-xxxM, (xxx=335-360 in step of 5)
 LR6-60HV-xxxM, (xxx=280-300 in step of 5)
 LR6-72PH-xxxM, (xxx=340-380 in step of 5)
 LR6-60PH-xxxM, (xxx=285-315 in step of 5)
 LR6-72HPH-xxxM, (xxx=365-395 in step of 5)
 LR6-72HIH-xxxM, (xxx=365-395 in step of 5)
 LR6-60HPH-xxxM, (xxx=300-325 in step of 5)
 LR6-60HIH-xxxM, (xxx=300-325 in step of 5)
 LR6-72OPH-xxxM, (xxx=385-415 in step of 5)
 LR6-60OPH-xxxM, (xxx=335-365 in step of 5)
 LR6-72HPH-xxxMC, (xxx=375-390 in step of 5)
 LR6-60HPH-xxxMC, (xxx=305-325 in step of 5)
 LR4-72HPH-xxxM, (xxx=420-465 in step of 5)
 LR4-72HIH-xxxM, (xxx=420-465 in step of 5)
 LR4-60HPH-xxxM, (xxx=350-380 in step of 5)
 LR4-60HIH-xxxM, (xxx=350-380 in step of 5)
 LR4-72ZPH-xxxM, (xxx=420-435 in step of 5)
 LR4-60ZPH-xxxM, (xxx=350-365 in step of 5)
 LR6-60ZPH-xxxM, (xxx=330-355 in step of 5)
 LR4-78ZPH-xxxM, (xxx=455-485 in step of 5)
 LR5-72HPH-xxxM, (xxx=525-555 in step of 5)
 LR5-66HPH-xxxM, (xxx=480-505 in step of 5)
 LR4-66HPH-xxxM, (xxx=395-415 in step of 5)
 LR4-66HIH-xxxM, (xxx=395-415 in step of 5)
 LR5-72HIH-xxxM, (xxx=525-550 in step of 5)
 LR5-66HIH-xxxM, (xxx=480-505 in step of 5)
 LR5-78HPH-xxxM, (xxx=575-595 in step of 5)
 LR5-78ZPH-xxxM, (xxx=565-585, in step of 5)
 LR4-50HPH-xxxM, (xxx=305-320, in step of 5)
 LR4-66HTB-xxxM, (xxx=410-430 in step of 5)
 LR4-60HTB-xxxM, (xxx=370-390 in step of 5)
 LR5-54HPH-xxxM, (xxx=395-415 in step of 5)
 LR4-66HTH-xxxM, (xxx=420-440 in step of 5)
 LR4-60HTH-xxxM, (xxx=380-400 in step of 5)
 LR5-54HIH-xxxM, (xxx=395-415 in step of 5)
 xxx stands for rated output power at STC

Parameters:

Fire Safety Class: Class C according to UL790.
 Safety Class: Class II
 Max. System Voltage: 1500V DC
 Test Laboratory: Yangzhou Opto-Electrical
 Products Testing Institute.
 No.10 West Kaifa Road, Yangzhou
 225009 Jiangsu, P.R. China.
 Construction: Framed, with Junction box, cable and

connector.

Tested according to:

IEC 61215-1:2016
 IEC 61215-1-1:2016
 IEC 61215-2:2016
 IEC 61730-1:2016
 IEC 61730-2:2016
 EN 61215-1:2016
 EN 61215-1-1:2016
 EN 61215-2:2017
 EN IEC 61730-1:2018
 EN IEC 61730-1:2018/AC:2018-06
 EN IEC 61730-2:2018
 EN IEC 61730-2:2018/AC:2018-06

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.

ANNEX

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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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Max. output current	42.4A	Power factor	1 (adjustable+/-0.8)
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Model type	SOFAR 30KTLX-G3		
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General information			
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Type of inverter	Transformer-less	Separated by	Non-isolated
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Safety Class	Class I	IP grade	IP65
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Over-voltage Category	II (PV) III (AC mains)	Pollution degree	External:3 Internal:2
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Operating temperature	-30°C~60°C (>50°C power derating)	Maximum Altitude	4000m
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Weight	36kg	Dimension (W x H x D)	585*480*220mm
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Hardware Version	V102	Software Version	V000001
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PV input			
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Vmax	1100V	Isc	3*50A
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MPP voltage range	180-1000V	Number of MPPT tracking	3
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Max. input current	3*40A		
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AC output			
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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
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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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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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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



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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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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)



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



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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.



Certificate of Conformity

Registered No.:

COCPPV07047/21B-03

File reference
PVP07047/21B-01

Test report No.
492011831.002

Date of issue
2021-11-22

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 62109-1:2010 & IEC 62109-2:2011
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).



Renewable Energy

BOS-T-015 COC



中国认可
产品
PRODUCT
CNAS C183-P

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TÜV NORD (HANGZHOU) CO., LTD.
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Tel: +86-571-85386989
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P.R. China

Version 1.3



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-DG2190260D02


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: 

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) 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-DG2190260-402

