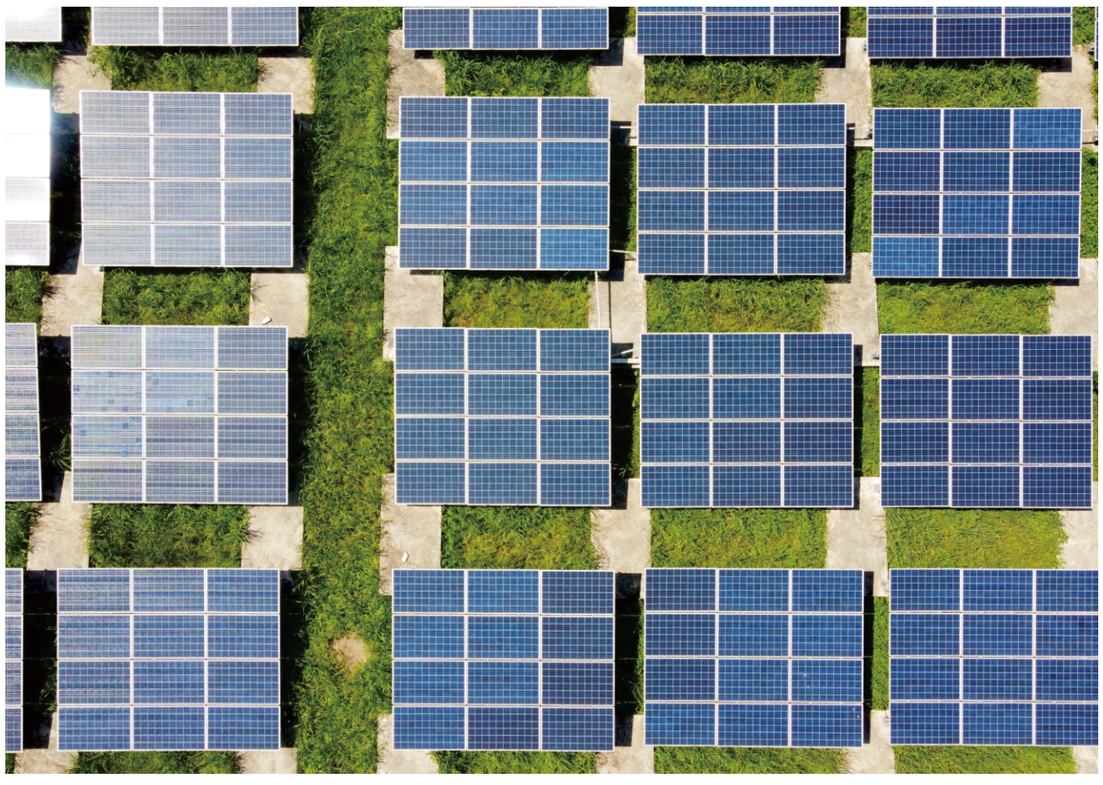
SOFAR 25K~50KTLX-G3

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

THREE-PHASE THREE TO FOUR MPPTS

Product advantages

- Max. efficiency up to 98.90%
- 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



Datasheet	SOFAR 25KTLX-G3	SOFAR 30KTLX-G3	SOFAR 33KTLX-G3	SOFAR 36KTLX-G3	SOFAR 40KTLX-G3	SOFAR 45KTLX-G3	SOFAR 50KTLX-G3
Input (DC)							
Recommended max. PV input power (Wp)	37500	45000	49500	54000	60000	67500	75000
Max. DC power for single MPPT (W)	25000						
Number of MPP trackers	3				4		
Number of DC inputs	2 for each MPPT						
Max. input voltage (V)	1100						
Start-up voltage (V)	200						
Rated input voltage (V)	620						
MPPT operating voltage range (V)	180-1000						
Full power MPPT voltage range (V)	480–850		510-850	540–850	480–850	510–850	540–850
Max. input MPPT current (A)	3*40				4*40		
Max. input short circuit current per MPPT (A)	3*50				4*50		
Output (AC)							
Rated power (W)	25000	30000	33000	36000	40000	45000	50000
Max. AC power (VA)	28000	34000	37000	40000	44000	50000	55000
Max. output current (A)	42.4	51.5	56.0	60.6	66.7	75.8	83.3
Rated grid voltage	3 / N / PE, 230 V / 400 Vac						
Grid voltage range	310 - 480 Vac (according to local standard)						
Rated grid frequency	50 Hz / 60 Hz						
Grid frequency range	45 Hz-55 Hz / 55 Hz-65 Hz (according to local standard)						
Active power adjustable range	0~100%						
THDi	< 3%						
Power factor	1 default (adjustable +/-0.8)						
Efficiency							
Max. efficiency	98.6%				98.8%		
European efficiency	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						
Feed-in limitation function	Yes						
DC switch	Yes						
Input / output SPD	PV: type II standard, AC: type II standard						
Communication							
Standard Communication mode	RS485/Bluetooth, Optional: WiFi/Ethernet						
General Data							
Ambient temperature range	-30°C ~ +60°C						
Self-consumption at night (W)	< 3						
Topology	Transformerless						
Degree of protection	IP65						
Allowable relative humidity range	0~100%						
Max. operating altitude	4000 m						
Weight (kg)	36				37		
Cooling	Fan						
Dimension (mm)	585*480*220						
Display	LCD, App via Bluetooth						
Standard							
EMC	EN 61000-6-1, EN 61000-6-2,EN 61000-6-3, EN 61000-6-4						
Safety standards	IEC 62109-1/2, IEC 62116, IEC 61727, IEC 61683, IEC 60068(1,2,14,30), IEC 60255						
Grid standards	VDE V 0124-100, V 0126-1-1, VDE-AR-N 4105, CEI 0-21/CEI 0-16, UNE 206 007-1, EN 50549, G98/G99, EN 50530						

* All specifications are subject to change without notice.

ENAC
CERTIFICACIÓN
Nº 87/C-PR244

SGS

Certificate of Conformity

By the product certificate number **No. 2621/0362-3-CER**

Issued to

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.

Trademark: SOFAR SOLAR

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: **PV 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.

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, 17th of January 2022

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				

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.

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

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:	SOFAR SOLAR
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

CE

CERTIFICATION · CONSULTING · SERVICE · TESTING · BALUN Dongguan

Simon Qi

Date of Issue: Oct. 18, 2021