

# 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:

<b>Product(s):</b>	<b>Solar Grid-tied Inverter</b>
<b>Model type(s):</b>	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
<b>Standard(s):</b>	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

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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		
<b>General information</b>			
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
<b>PV input</b>			
Vmax .....	1100V	Isc .....	3*50A
MPP voltage range .....	180-1000V	Number of MPPT tracking .....	3
Max. input current .....	3*40A		
<b>AC output</b>			
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			
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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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		
<b>AC output</b>			
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		
<b>General information</b>			
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
<b>PV input</b>			
Vmax.....	1100V	Isc .....	3*50A
MPP voltage range .....	180-1000V	Number of MPPT tracking .....	3
Max. input current.....	3*40A		
<b>AC output</b>			
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		
<b>General information</b>			
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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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
<b>PV input</b>			
Vmax.....:	1100V	Isc .....	3*50A
MPP voltage range .....	180-1000V	Number of MPPT tracking .....	3
Max. input current.....:	3*40A		
<b>AC output</b>			
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		
<b>General information</b>			
Type of inverter.....:	Transformer-less	Separated by .....	Non-isolated



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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
<b>PV input</b>			
Vmax.....:	1100V	Isc.....:	4*50A
MPP voltage range.....:	180-1000V	Number of MPPT tracking.....:	4
Max. input current.....:	4*40A		
<b>AC output</b>			
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		
<b>General information</b>			
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
<b>PV input</b>			
Vmax .....	1100V	Isc .....	4*50A
MPP voltage range .....	180-1000V	Number of MPPT tracking .....	4
Max. input current .....	4*40A		
<b>AC output</b>			
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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<b>General information</b>			
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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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<b>PV input</b>			
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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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<b>AC output</b>			
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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		
<b>General information</b>			
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
<b>PV input</b>			
Vmax.....	1100V	Isc .....	3*50A



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MPP voltage range .....	180-1000V	Number of MPPT tracking .....	3
Max. input current.....	3*40A		
<b>AC output</b>			
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		
<b>General information</b>			
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
<b>PV input</b>			
Vmax.....	1100V	Isc .....	4*50A
MPP voltage range .....	180-1000V	Number of MPPT tracking .....	4
Max. input current.....	4*40A		
<b>AC output</b>			
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.

