

CERTIFICATE

Shenzhen Kstar New Energy Company Limited

The 9th Floor, R&D Building, Kstar Industrial Park, Guangming Hi-tech Industrial Zone, Shenzhen, Guangdong Province, 518107, PEOPLE'S REPUBLIC OF CHINA

is authorized to provide the product(s) mentioned below with the mark as illustrated:



Description of product(s) (details see Annex 2):

Grid-Connected Inverter

It is certified by TÜV NORD CERT GmbH that the product(s) described above has(have) been assessed according to the certification program mentioned below and found in compliance with the requirements of below specified certification fundamental(s). This certification is based on evaluation results as documented in test report(s) referenced below and production site(s) audit results as documented in factory inspection report(s) referenced in Annex 1. This certificate is valid in conjunction with these quoted report(s).

Certification program:	P33-VA-01 Rev. 02 / 04.20	
Certification fundamental(s):	IEC 62109-1:2010; IEC 62109-2:2011	
Registered no.:	44 780 21 406749 - 265	
Manufacturer and factory(-ies):	See Annex 1	
Report no.:	492011832.001	Valid from: 2021-12-09
File no.:	PVP05072/21B-01	Valid until: 2026-12-08



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



Essen, 2021-12-09

ANNEX

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to Certificate registration no. 44 780 21 406749 - 265

Manufacturer:

Shenzhen Kstar New Energy Company Limited

The 9th Floor, R&D Building, Kstar Industrial Park, Guangming Hi-tech Industrial Zone, Shenzhen, Guangdong Province, 518107, PEOPLE'S REPUBLIC OF CHINA

Factory(-ies):

Factory :

Shenzhen KSTAR Science & Technology Co., Ltd. Guangming Branch.

Kstar High Tech Park, Guangming High Technology Town, Gongming Street, Bao'an District, Shenzhen, Guangdong Province, 516229, PEOPLE'S REPUBLIC OF CHINA

Factory inspection report no.: 862010493.002

Remark:

Factory inspection is mandatory to be performed annually. Please refer to factory inspection report for detailed information.

A handwritten signature in blue ink, appearing to read "Jannik Hennig".

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to Certificate registration no. 44 780 21 406749 - 265

Description of product(s):

Model type	BluE-G 3200S-G2		
General information			
Type of inverter	Transformer-less	Separated by	Non-isolated
Safety class	Class I	IP grade	IP66
Over-voltage category	PV Input: II, AC Output: III	Pollution degree	External:3 Internal:2
Operating temperature :	-25°C ~60°C (>45°C derating)	Altitude	≤4000m
Weight	8kg	Dimension (W x H x D)	290*120*350mm
Hardware version	REV002	Software version	1.7
PV input			
Vmax	600V	Isc	13.2A
MPP voltage range	80-560V	Number of MPPT tracking	1
Max input current	11A		
AC output			
Rated output voltage	230Vac	Rated output frequency	50Hz/60Hz
Rated output power	3200W	Max. apparent power	3520VA
Max. output current	15.3A	Power factor	0.8 leading to 0.8 lagging



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Model type	BluE-G 3000S-G2		
General information			
Type of inverter	Transformer-less	Separated by	Non-isolated
Safety class	Class I	IP grade	IP66
Over-voltage category	PV Input: II, AC Output: III	Pollution degree	External:3 Internal:2
Operating temperature	-25°C ~60°C (>45°C derating)	Altitude	≤4000m
Weight	8kg	Dimension (W x H x D)	290*120*350mm
Hardware version	REV002	Software version	1.7
PV input			
Vmax	600V	Isc	13.2A
MPP voltage range	80-560V	Number of MPPT tracking	1
Max input current	11A		
AC output			
Rated output voltage	230Vac	Rated output frequency	50Hz/60Hz
Rated output power	3000W	Max. apparent power	3300VA
Max. output current	14.4A	Power factor	0.8 leading to 0.8 lagging



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Model type	BluE-G 2000S		
General information			
Type of inverter	Transformer-less	Separated by	Non-isolated
Safety class.....	Class I	IP grade	IP66
Over-voltage category	PV Input: II, AC Output: III	Pollution degree.....	External:3 Internal:2
Operating temperature.....	-25°C ~60°C (>45°C derating)	Altitude.....	≤4000m
Weight.....	8kg	Dimension (W x H x D).....	290*120*350mm
Hardware version.....	REV002	Software version.....	1.7
PV input			
Vmax.....	600V	Isc	13A
MPP voltage range	80-560V	Number of MPPT tracking	1
Max input current	11A		
AC output			
Rated output voltage.....	230Vac	Rated output frequency	50Hz/60Hz
Rated output power.....	2000W	Max. apparent power	2200VA
Max. output current.....	9.6A	Power factor.....	0.8 leading to 0.8 lagging



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Model type	BluE-G 1500S		
General information			
Type of inverter	Transformer-less	Separated by.....	Non-isolated
Safety class.....	Class I	IP grade.....	IP66
Over-voltage category	PV Input: II, AC Output: III	Pollution degree	External:3 Internal:2
Operating temperature.....	-25°C ~60°C (>45°C derating)	Altitude	≤4000m
Weight.....	8kg	Dimension (W x H x D)	290*120*350mm
Hardware version.....	REV002	Software version	1.7
PV input			
Vmax.....	600V	Isc.....	13.2A
MPP voltage range	80-560V	Number of MPPT tracking.....	1
Max input current	11A		
AC output			
Rated output voltage.....	230Vac	Rated output frequency.....	50Hz/60Hz
Rated output power.....	1500W	Max. apparent power	1650VA
Max. output current.....	7.2A	Power factor	0.8 leading to 0.8 lagging



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Model type	BluE-G 1000S		
General information			
Type of inverter	Transformer-less	Separated by	Non-isolated
Safety class	Class I	IP grade	IP66
Over-voltage category	PV Input: II, AC Output: III	Pollution degree	External:3 Internal:2
Operating temperature	-25°C ~60°C (>45°C derating)	Altitude	≤4000m
Weight	7.3kg	Dimension (W x H x D)	290*120*350mm
Hardware version	REV002	Software version	1.7
PV input			
Vmax	600V	Isc	13.2A
MPP voltage range	60-560V	Number of MPPT tracking	1
Max input current	11A		
AC output			
Rated output voltage	230Vac	Rated output frequency	50Hz/60Hz
Rated output power	1000W	Max. apparent power	1100VA
Max. output current	4.8A	Power factor	0.8 leading to 0.8 lagging



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Model type	BluE-G 3200S-G2-M1		
General information			
Type of inverter	Transformer-less	Separated by	Non-isolated
Safety class	Class I	IP grade	IP66
Over-voltage category	PV Input: II, AC Output: III	Pollution degree	External:3 Internal:2
Operating temperature	-25°C ~60°C (>45°C derating)	Altitude	≤4000m
Weight	8kg	Dimension (W x H x D)	290*120*350mm
Hardware version	REV002	Software version	1.7
PV input			
Vmax	600V	Isc	15.6A
MPP voltage range	80-560V	Number of MPPT tracking	1
Max input current	13A		
AC output			
Rated output voltage	230Vac	Rated output frequency	50Hz/60Hz
Rated output power	3200W	Max. apparent power	3520VA
Max. output current	15.3A	Power factor	0.8 leading to 0.8 lagging



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Model type	BluE-G 3000S-G2-M1		
General information			
Type of inverter	Transformer-less	Separated by	Non-isolated
Safety class	Class I	IP grade	IP66
Over-voltage category	PV Input: II, AC Output: III	Pollution degree	External:3 Internal:2
Operating temperature	-25°C ~60°C (>45°C derating)	Altitude	≤4000m
Weight	8kg	Dimension (W x H x D)	290*120*350mm
Hardware version	REV002	Software version	1.7
PV input			
Vmax	600V	Isc	15.6A
MPP voltage range	80-560V	Number of MPPT tracking	1
Max input current	13A		
AC output			
Rated output voltage	230Vac	Rated output frequency	50Hz/60Hz
Rated output power	3000W	Max. apparent power	3300VA
Max. output current	14.4A	Power factor	0.8 leading to 0.8 lagging



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Model type	BluE-G 2000S-M1		
General information			
Type of inverter	Transformer-less	Separated by	Non-isolated
Safety class	Class I	IP grade	IP66
Over-voltage category	PV Input: II, AC Output: III	Pollution degree	External:3 Internal:2
Operating temperature	-25°C ~60°C (>45°C derating)	Altitude	≤4000m
Weight	8kg	Dimension (W x H x D)	290*120*350mm
Hardware version	REV002	Software version	1.7
PV input			
Vmax	600V	Isc	15.6A
MPP voltage range	80-560V	Number of MPPT tracking	1
Max input current	13A		
AC output			
Rated output voltage	230Vac	Rated output frequency	50Hz/60Hz
Rated output power	2000W	Max. apparent power	2200VA
Max. output current	9.6A	Power factor	0.8 leading to 0.8 lagging



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Model type	BluE-G 1500S -M1		
General information			
Type of inverter	Transformer-less	Separated by	Non-isolated
Safety class	Class I	IP grade	IP66
Over-voltage category	PV Input: II, AC Output: III	Pollution degree	External:3 Internal:2
Operating temperature	-25°C ~60°C (>45°C derating)	Altitude	≤4000m
Weight	8kg	Dimension (W x H x D)	290*120*350mm
Hardware version	REV002	Software version	1.7
PV input			
Vmax	600V	Isc	15.6A
MPP voltage range	80-560V	Number of MPPT tracking	1
Max input current	13A		
AC output			
Rated output voltage	230Vac	Rated output frequency	50Hz/60Hz
Rated output power	1500W	Max. apparent power	1650VA
Max. output current	7.2A	Power factor	0.8 leading to 0.8 lagging



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Model type	BluE-G 1000S -M1		
General information			
Type of inverter	Transformer-less	Separated by	Non-isolated
Safety class	Class I	IP grade	IP66
Over-voltage category	PV Input: II, AC Output: III	Pollution degree	External:3 Internal:2
Operating temperature	-25°C ~60°C (>45°C derating)	Altitude	≤4000m
Weight	7.3kg	Dimension (W x H x D)	290*120*350mm
Hardware version	REV002	Software version	1.7
PV input			
Vmax	600V	Isc	15.6A
MPP voltage range	60-560V	Number of MPPT tracking	1
Max input current	13A		
AC output			
Rated output voltage	230Vac	Rated output frequency	50Hz/60Hz
Rated output power	1000W	Max. apparent power	1100VA
Max. output current	4.8A	Power factor	0.8 leading to 0.8 lagging



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Remark:

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

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