

CERTIFICATE

Bluesun Solar Co., Ltd.

Building No.7, 1499 Zhenxing Road, Shushan District, 230031
Hefei, 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):

PV grid-interactive 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 - 056	
Manufacturer and factory(-ies):	See Annex 1	
Test report no.:	492011643.001	Valid from: 2021-04-20
File no.:	PVP03011/21B-01	Valid until: 2026-02-04



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



Essen, 2021-04-20

ANNEX

Annex 1, Page 1 of 1

to Certificate registration no. 44 780 21 406749 - 056

Manufacturer:

Bluesun Solar Co., Ltd.

Building No.7, 1499 Zhenxing Road, Shushan District, 230031 Hefei,
PEOPLE'S REPUBLIC OF China

Factory(-ies):

Coded by debtor no. 55494355

Factory inspection report no.: 862010492.001

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 "Almanca Uler".

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

Essen, 2021-04-20

ANNEX

Annex 2, Page 1 of 3

to Certificate registration no. 44 780 21 406749 - 056

Description of product(s):

Model type(s)	BSM8000-B2		
General Information:			
Type of inverter	No transformer	Over voltage Category (OVC) ..:	PV Input: II, AC Output: III
Protective Class	Class I	Enclosure Protection (IP).....:	IP65
Operating Temperature Range [°C]	-40 to 60 (>40 derating)	Pollution degree (PD)	PD 3(external) PD 2(internal)
Weight [kg]	<14kg	Size (W x H x D) [mm].....:	325*380*177
Firmware Version	A		
PV Input:			
Vmax [Vd.c.].....:	550	Isc [Ad.c.].....:	30/15
MPP Voltage Range [Vd.c.]	90-500	MPP Full Power Voltage Range [Vd.c.].....:	200V~480V
Max. Input Current [Ad.c.].....:	24/12	Back-feed Current [A].....:	0
MPPT tracking	2		
AC Output:			
Rated Output Voltage [Va.c.].....:	220/230, L+N+PE	Rated Output Frequency [Hz]..:	50/60
Rated Output Power [kW]	8	Max. Apparent Power [kVA]:	8
Max. Output Current [Aa.c.]	36.4	Power Factor cosφ [λ]	[-0.8,0.8]



ANNEX

Annex 2, Page 2 of 3

to Certificate registration no. 44 780 21 406749 - 056

Model type(s)	BSM6000-B2		
General Information:			
Type of inverter	No transformer	Over voltage Category (OVC) ..	PV Input: II, AC Output: III
Protective Class	Class I	Enclosure Protection (IP).....	IP65
Operating Temperature Range [°C]	-40 to 60 (>40 derating)	Pollution degree (PD)	PD 3(external) PD 2(internal)
Weight [kg]	<14kg	Size (W x H x D) [mm]	325*380*177
Firmware Version.....	A		
PV Input:			
Vmax [Vd.c.].....	550	Isc [Ad.c.].....	15/15
MPP Voltage Range [Vd.c.]	90-500	MPP Full Power Voltage Range [Vd.c.].....	200V~480V
Max. Input Current [Ad.c.]	11/11	Back-feed Current [A]	0
MPPT tracking	2		
AC Output:			
Rated Output Voltage [Va.c.]	220/230, L+N+PE	Rated Output Frequency [Hz]..	50/60
Rated Output Power [kW]	6	Max. Apparent Power [kVA]	6.6
Max. Output Current [Aa.c.]	30	Power Factor cosφ [λ]	[-0.8,0.8]



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

Essen, 2021-04-20

ANNEX

Annex 2, Page 3 of 3

to Certificate registration no. 44 780 21 406749 - 056

Model type(s)	BSM5000-B2		
General Information:			
Type of inverter	No transformer	Over voltage Category (OVC) ..:	PV Input: II, AC Output: III
Protective Class	Class I	Enclosure Protection (IP).....:	IP65
Operating Temperature Range [°C]	-40 to 60 (>40 derating)	Pollution degree (PD)	PD 3(external) PD 2(internal)
Weight [kg]	<14kg	Size (W x H x D) [mm].....:	325*380*177
Firmware Version	A		
PV Input:			
Vmax [Vd.c.].....:	550	Isc [Ad.c.].....:	15/15
MPP Voltage Range [Vd.c.]	90-500	MPP Full Power Voltage Range [Vd.c.].....:	200V~480V
Max. Input Current [Ad.c.].....:	11/11	Back-feed Current [A].....:	0
MPPT tracking	2		
AC Output:			
Rated Output Voltage [Va.c.].....:	220/230, L+N+PE	Rated Output Frequency [Hz]..:	50/60
Rated Output Power [kW]	5	Max. Apparent Power [kVA]:	5.5
Max. Output Current [Aa.c.]	25	Power Factor cosφ [λ]	[-0.8,0.8]

Remark:

For detailed product information, please refer to CDF (Constructional Data Form) in Annex 2 of test report.



CERTIFICATE

of conformity with the following European Directives

Low Voltage Directive 2014/35/EU

This certifies that below described products of the applicant:

Bluesun Solar Co., Ltd.

Building No.7, 1499 Zhenxing Road, Shushan District, 230031
Hefei, PEOPLE'S REPUBLIC OF 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):	PV grid-interactive inverter
Model type(s):	BSM5000-B2, BSM6000-B2, BSM8000-B2
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 - 035
Test report no.:	492011643.001
File no.:	PVP03011/21B-01





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

Essen, 2021-04-20

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 3

to Certificate registration no. 44 799 21 406749 - 035

Description of product(s):

Model type(s)	BSM8000-B2		
General Information:			
Type of inverter	No transformer	Over voltage Category (OVC) ..:	PV Input: II, AC Output: III
Protective Class	Class I	Enclosure Protection (IP).....:	IP65
Operating Temperature Range [°C]	-40 to 60 (>40 derating)	Pollution degree (PD)	PD 3(external) PD 2(internal)
Weight [kg]	<14kg	Size (W x H x D) [mm].....:	325*380*177
Firmware Version.....:	A		
PV Input:			
Vmax [Vd.c.].....:	550	Isc [Ad.c.].....:	30/15
MPP Voltage Range [Vd.c.]	90-500	MPP Full Power Voltage Range [Vd.c.].....:	200V~480V
Max. Input Current [Ad.c.].....:	24/12	Back-feed Current [A].....:	0
MPPT tracking	2		
AC Output:			
Rated Output Voltage [Va.c.]	220/230, L+N+PE	Rated Output Frequency [Hz]...:	50/60
Rated Output Power [kW]	8	Max. Apparent Power [kVA]	8
Max. Output Current [Aa.c.]	36.4	Power Factor cosφ [λ]	[-0.8,0.8]



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Balance of System (BOS) for Photovoltaics

Essen, 2021-04-20

ANNEX

Annex 1, Page 2 of 3

to Certificate registration no. 44 799 21 406749 - 035

Model type(s)	BSM6000-B2		
General Information:			
Type of inverter	No transformer	Over voltage Category (OVC) ..:	PV Input: II, AC Output: III
Protective Class	Class I	Enclosure Protection (IP).....:	IP65
Operating Temperature Range [°C]	-40 to 60 (>40 derating)	Pollution degree (PD)	PD 3(external) PD 2(internal)
Weight [kg]	<14kg	Size (W x H x D) [mm].....:	325*380*177
Firmware Version.....:	A		
PV Input:			
Vmax [Vd.c.].....:	550	Isc [Ad.c.].....:	15/15
MPP Voltage Range [Vd.c.].....:	90-500	MPP Full Power Voltage Range [Vd.c.].....:	200V~480V
Max. Input Current [Ad.c.].....:	11/11	Back-feed Current [A].....:	0
MPPT tracking	2		
AC Output:			
Rated Output Voltage [Va.c.].....:	220/230, L+N+PE	Rated Output Frequency [Hz]..:	50/60
Rated Output Power [kW]	6	Max. Apparent Power [kVA]	6.6
Max. Output Current [Aa.c.]	30	Power Factor cosφ [λ]	[-0.8,0.8]



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 Certification Body
 Balance of System (BOS) for Photovoltaics

Essen, 2021-04-20

ANNEX

Annex 1, Page 3 of 3

to Certificate registration no. 44 799 21 406749 - 035

Model type(s)	BSM5000-B2		
General Information:			
Type of inverter	No transformer	Over voltage Category (OVC) ..:	PV Input: II, AC Output: III
Protective Class	Class I	Enclosure Protection (IP).....:	IP65
Operating Temperature Range [°C]	-40 to 60 (>40 derating)	Pollution degree (PD)	PD 3(external) PD 2(internal)
Weight [kg]	<14kg	Size (W x H x D) [mm].....:	325*380*177
Firmware Version	A		
PV Input:			
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MPP Voltage Range [Vd.c.]	90-500	MPP Full Power Voltage Range [Vd.c.].....:	200V~480V
Max. Input Current [Ad.c.]	11/11	Back-feed Current [A].....:	0
MPPT tracking	2		
AC Output:			
Rated Output Voltage [Va.c.]	220/230, L+N+PE	Rated Output Frequency [Hz]..:	50/60
Rated Output Power [kW]	5	Max. Apparent Power [kVA]	5.5
Max. Output Current [Aa.c.]	25	Power Factor cosφ [λ]	[-0.8,0.8]

Remark:

For detailed product information, please refer to CDF (Constructional Data Form) in Annex 4 of test report.



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