

Certificate of Conformity

Registered No.:

COCPVP02103/23E-07

File reference
PVP02103/23E-02

Test report No.
TRPVP02103/23E/02

Date of issue
2023-05-29

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: **FOXESS CO., LTD.**
No.939, Jinhai Third Road, New Airport Industry Area, Longwan District,
Wenzhou, Zhejiang, China

Manufacturer: **FOXESS CO., LTD.**
No.939, Jinhai Third Road, New Airport Industry Area, Longwan District,
Wenzhou, Zhejiang, China

Factory : **FOXESS CO., LTD.**
No.939, Jinhai Third Road, New Airport Industry Area, Longwan District,
Wenzhou, Zhejiang, China

Product: Storage Inverter

Type designation: H1-6.0-E, H1-5.0-E, H1-4.6-E, H1-3.7-E, H1-3.0-E, AC1-6.0-E, AC1-5.0-E, AC1-4.6-E, AC1-3.7-E, AC1-3.0-E, AIO-H1-6.0, AIO-H1-5.0, AIO-H1-4.6, AIO-H1-3.7, AIO-H1-3.0, AIO-AC1-6.0, AIO-AC1-5.0, AIO-AC1-4.6, AIO-AC1-3.7, AIO-AC1-3.0, AC1-3.0-E-G2, AC1-3.7-E-G2, AC1-4.6-E-G2, AC1-5.0-E-G2, AC1-6.0-E-G2, AC1-4.6-E1-G2, AC1-5.0-E1-G2, H1-3.0-E-G2, H1-3.7-E-G2, H1-4.6-E-G2, H1-5.0-E-G2, H1-6.0-E-G2, H1-4.6-E1-G2, H1-5.0-E1-G2

Type of equipment: Interface device
 Interface protection
 Static conversion device
 Rotary generation device
Remark: The device is for plants of each power.

Certification program: BOS-P-01 Rev. 00



Renewable Energy

BOS&ESS-T-004 COC



中国认可
产品
PRODUCT
CNAS C183-P

TÜV NORD (HANGZHOU) CO., LTD.
Member of TÜV NORD Group
Tel: +86-571-85386989
Fax: +86-571-85386986
www.tuv-nord.com/cn
P.R. China

Certification fundamental(s): CEI 0-21:2019-04, CEI 0-21:2022-03 "Reference technical rules for the connection of active and passive users to the LV electrical Utilities"

See test report for detailed information.

Certification body: TÜV NORD (HANGZHOU) CO., LTD.

Room B409, Building 1, No. 9, Jiuhuan Road, Shangcheng District, Hangzhou City, Zhejiang Province, 310019, P.R. China

Accredited by CNAS according to ISO/IEC 17065:2012, certificate no. CNAS C183-P.

Testing laboratory: Dongguan BALUN Testing Technology Co., Ltd.

Room 104/204/205, Building 1, No. 6, Industrial South Road, Songshan Lake District, Dongguan, Guangdong, China

Accredited by CNAS according to ISO/IEC 17025:2017, certificate no. CNAS L14701

Conclusion: After verifying following documents, it is concluded that the product is in compliance with the requirements of CEI 0-21:2019-04, CEI 0-21:2022-03.

ISO 9001 certificate:

Certificate no. 201838, issued by DCI certification Ltd.

Test report of CEI 0-21:2019-04, CEI 0-21:2022-03:

Report no. BL-DG2331155-201, issued by Dongguan BALUN Testing Technology Co., Ltd. accredited by CNAS according to ISO/IEC 17025:2017, certificate no. CNAS L14701

Test report of EMC:

Report no. 4861920333200&4861921219500, issued by TÜV SÜD Certification and Testing (China) Co., Ltd., accredited by CNAS according to ISO/IEC 17025:2017, certificate no. CNAS L2282.

Report no. BL-DG2130790-402&BL-DG2130790-403, issued by Dongguan BALUN Testing Technology Co., Ltd., accredited by CNAS according to ISO/IEC 17025:2017, certificate no. CNAS L14701

Report no. C21-342-WT, issued by Shanghai Inspection and Testing Institute of Instruments and Automation Systems Co., Ltd., accredited by CNAS according to ISO/IEC 17025:2017, certificate no. CNAS L0130



Renewable Energy

BOS&ESS-T-004 COC



中国认可
产品

PRODUCT
CNAS C183-P

TÜV NORD (HANGZHOU) CO., LTD.
Member of TÜV NORD Group
Tel: +86-571-85386989
Fax: +86-571-85386986
www.tuv-nord.com/cn
P.R. China

Report no. CN23M9ZI 001, issued by TÜV Rheinland (Shanghai) Co., Ltd accredited by CNAS according to ISO/IEC 17025:2017, certificate no. CNAS L3038

Report no. WPHE230834, issued by SUZHOU INSTITUTE OF PRODUCT QUALITY SUPERVISION AND INSPECTION accredited by CNAS according to ISO/IEC 17025:2017, certificate no. CNAS L0267

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&ESS-T-004 COC



中国认可
产品
PRODUCT
CNAS C183-P

Page 3 of 14

TÜV NORD (HANGZHOU) CO., LTD.
Member of TÜV NORD Group
Tel: +86-571-85386989
Fax: +86-571-85386986
www.tuv-nord.com/cn
P.R. China

Version 1.0

Description of product(s):

Model types.....:	AC1-3.0-E/ AIO-AC1- 3.0	AC1-3.7-E/ AIO-AC1- 3.7	AC1-4.6-E/ AIO-AC1- 4.6	AC1-5.0-E/ AIO-AC1- 5.0	AC1-6.0-E/ AIO-AC1- 6.0
General information:					
Firmware.....:	V1.09				
Battery input parameters:					
Battery Type.....:	Lithium-Ion				
Voltage range[V d.c.].....:	AC1-3.0-E, AC1-3.7-E, AC1-4.6-E, AC1-5.0-E, AC1-6.0-E: 85-450 AIO-AC1-3.0, AIO-AC1-3.7, AIO-AC1-4.6, AIO-AC1-5.0, AIO-AC1-6.0: 85-233.6				
Max. Charge Current [Ad.c.]:	40				
Max. Discharge Current [Ad.c.].....:	40				
AC output (Grid Side) parameters:					
Rated output voltage [V a.c.].....:	220/230/240				
Rated output frequency [Hz].....:	50/60				
Rated output power [W].....:	3000	3680	4600	5000	6000
Max. apparent power [VA]...:	3300	4048	5060	5500	6600
Max. output current [A a.c.]..:	14.4	17.6	22	23.9	28.7
Power factor $\cos\phi$ [λ].....:	1 default (adjustable +/-0.8)				
AC output (Back-up) parameters:					
Rated output voltage [V a.c.].....:	220/230/240				
Rated output frequency [Hz].....:	50/60				
Rated output power [W].....:	5000	5000	6000	6000	6000
Max. apparent power [VA]...:	5000	5000	6000	6000	6000



Renewable Energy

BOS&ESS-T-004 COC



中国认可
产品
PRODUCT
CNAS C183-P

TÜV NORD (HANGZHOU) CO., LTD.
Member of TÜV NORD Group
Tel: +86-571-85386989
Fax: +86-571-85386986
www.tuv-nord.com/cn
P.R. China

Max. output current [A a.c.]:	21.7	21.7	26.1	26.1	26.1
Power factor $\cos\phi$ [λ].....:	1 default (adjustable +/-0.8)				
Overvoltage category (OVC).....:	III				



Renewable Energy

BOS&ESS-T-004 COC



中国认可
产品
PRODUCT
CNAS C183-P

TÜV NORD (HANGZHOU) CO., LTD.
Member of TÜV NORD Group
Tel: +86-571-85386989
Fax: +86-571-85386986
www.tuv-nord.com/cn
P.R. China

Model types.....:	H1-3.0-E/ AIO-H1-3.0	H1-3.7-E/ AIO-H1-3.7	H1-4.6-E/ AIO-H1-4.6	H1-5.0-E/ AIO-H1-5.0	H1-6.0-E/ AIO-H1-6.0
General information					
Firmware.....:	V1.09				
PV input:					
Vmax PV [V d.c.].....:	600				
Mpp voltage range [V d.c.]...:	80 - 550				
Isc PV [A d.c.].....:	15/15	15/15	15/15	15/15	15/15
Max. input current [A d.c.]...:	13.5/13.5	13.5/13.5	13.5/13.5	13.5/13.5	13.5/13.5
Overvoltage category (OVC).....:	II				
Battery input parameters:					
Battery Type.....:	Lithium-Ion				
Voltage range[V d.c.].....:	H1-3.0-E, H1-3.7-E, H1-4.6-E, H1-5.0-E, H1-6.0-E: 85-450 AIO-H1-3.0, AIO-H1-3.7, AIO-H1-4.6, AIO-H1-5.0, AIO-H1-6.0: 85-233.6				
Max. Charge Current [Ad.c.]:	40				
Max. Discharge Current [Ad.c.].....:	40				
AC output (Grid Side) parameters:					
Rated output voltage [V a.c.].....:	220/230/240				
Raged output frequency [Hz].....:	50/60				
Rated output power [W].....:	3000	3680	4600	5000	6000
Max. apparent power [VA]...:	3300	4048	5060	5500	6600
Max. output current [A a.c.]...:	14.4	17.6	22.0	23.9	28.7
Power factor cosφ [λ].....:	1 default (adjustable +/-0.8)				



Renewable Energy

BOS&ESS-T-004 COC



中国认可
产品
PRODUCT
CNAS C183-P

TÜV NORD (HANGZHOU) CO., LTD.
Member of TÜV NORD Group
Tel: +86-571-85386989
Fax: +86-571-85386986
www.tuv-nord.com/cn
P.R. China

AC output (Back-up) parameters:					
Rated output voltage [V a.c.].....:	220/230/240				
Raged output frequency [Hz].....:	50/60				
Rated output power [W].....:	5000	5000	6000	6000	6000
Max. apparent power [VA]....:	5000	5000	6000	6000	6000
Max. output current [A a.c.]..:	21.7	21.7	26.1	26.1	26.1
Power factor $\cos\phi$ [λ].....:	1 default (adjustable +/-0.8)				
Overvoltage category (OVC).....:	III				



Renewable Energy

BOS&ESS-T-004 COC



中国认可
产品
PRODUCT
CNAS C183-P

TÜV NORD (HANGZHOU) CO., LTD.
Member of TÜV NORD Group
Tel: +86-571-85386989
Fax: +86-571-85386986
www.tuv-nord.com/cn
P.R. China

Model types.....	H1-3.0- E-G2	H1-3.7- E-G2	H1-4.6- E-G2	H1-5.0- E-G2	H1-6.0- E-G2	H1-4.6- E1-G2	H1-5.0- E1-G2
General information							
Firmware.....	V1.09						
PV input:							
Vmax PV [V d.c.].....	600						
Mpp voltage range [V d.c.]..:	80 - 550						
Isc PV [A d.c.].....	20/20	20/20	20/20	20/20	20/20	20/20	20/20
Max. input current [A d.c.]...:	16/16	16/16	16/16	16/16	16/16	16/16	16/16
Overvoltage category (OVC).....	II						
Battery input parameters:							
Battery Type.....	Lithium-Ion						
Voltage range[V d.c.].....	80-480						
Max. Charge Current [Ad.c.]:	40						
Max. Discharge Current [Ad.c.].....	40						
AC output (Grid Side) parameters:							
Rated output voltage [V a.c.].....	220/230/240						
Rated output frequency [Hz].....	50/60						
Rated output power [W].....:	3000	3680	4600	5000	6000	4600	5000
Max. apparent power [VA]....:	3300	4048	5060	5500	6600	4600	5000
Max. output current [A a.c.]..:	15.0	18.4	23.0	25.0	30.0	20.9	22.7
Power factor cosφ [λ].....:	1 default (adjustable +/-0.8)						



Renewable Energy

BOS&ESS-T-004 COC



中国认可
产品
PRODUCT
CNAS C183-P

TÜV NORD (HANGZHOU) CO., LTD.
Member of TÜV NORD Group
Tel: +86-571-85386989
Fax: +86-571-85386986
www.tuv-nord.com/cn
P.R. China

AC output (Back-up) parameters:							
Rated output voltage [V a.c.].....:	220/230/240						
Raged output frequency [Hz].....:	50/60						
Rated output power [W].....:	3000	3680	4600	5000	6000	4600	5000
Max. apparent power [VA]....:	3000	3680	4600	5000	6000	4600	5000
Max. output current [A a.c.]..:	13.6	16.7	20.9	22.7	27.3	20.9	22.7
Power factor cosφ [λ].....:	1 default (adjustable +/-0.8)						
Overvoltage category (OVC).....:	III						



Renewable Energy

BOS&ESS-T-004 COC



中国认可
产品
PRODUCT
CNAS C183-P

TÜV NORD (HANGZHOU) CO., LTD.
Member of TÜV NORD Group
Tel: +86-571-85386989
Fax: +86-571-85386986
www.tuv-nord.com/cn
P.R. China

Model types.....:	AC1- 3.0-E- G2	AC1- 3.7-E- G2	AC1- 4.6-E- G2	AC1- 5.0-E- G2	AC1- 6.0-E- G2	AC1- 4.6-E1- G2	AC1- 5.0-E1- G2
General information							
Firmware.....:	V1.09						
Battery input parameters:							
Battery Type.....:	Lithium-Ion						
Voltage range[V d.c.].....:	80-480						
Max. Charge Current [Ad.c.]:	40						
Max. Discharge Current [Ad.c.].....:	40						
AC output (Grid Side) parameters:							
Rated output voltage [V a.c.].....:	220/230/240						
Raged output frequency [Hz].....:	50/60						
Rated output power [W].....:	3000	3680	4600	5000	6000	4600	5000
Max. apparent power [VA]....:	3300	4048	5060	5500	6600	4600	5000
Max. output current [A a.c.]..:	15.0	18.4	23.0	25.0	30.0	20.9	22.7
Power factor cosφ [λ].....:	1 default (adjustable +/-0.8)						



Renewable Energy

BOS&ESS-T-004 COC



中国认可
产品
PRODUCT
CNAS C183-P

TÜV NORD (HANGZHOU) CO., LTD.
Member of TÜV NORD Group
Tel: +86-571-85386989
Fax: +86-571-85386986
www.tuv-nord.com/cn
P.R. China

AC output (Back-up) parameters:							
Rated output voltage [V a.c.].....:	220/230/240						
Raged output frequency [Hz].....:	50/60						
Rated output power [W].....:	3000	3680	4600	5000	6000	4600	5000
Max. apparent power [VA]...:	3000	3680	4600	5000	6000	4600	5000
Max. output current [A a.c.]...:	13.6	16.7	20.9	22.7	27.3	20.9	22.7
Power factor $\cos\phi$ [λ].....:	1 default (adjustable +/-0.8)						
Overvoltage category (OVC).....:	III						



Renewable Energy

BOS&ESS-T-004 COC



中国认可
产品
PRODUCT
CNAS C183-P

TÜV NORD (HANGZHOU) CO., LTD.
Member of TÜV NORD Group
Tel: +86-571-85386989
Fax: +86-571-85386986
www.tuv-nord.com/cn
P.R. China

The inverters listed above may be installed with the following batteries:

Manufacturer	FOXESS Co., Ltd. (for AC1 and H1 series)			
Accumulator Model / Battery Model	HS 5.2	HS 7.8	HS 10.4	HS 13
Capacity of each battery module (kWh)	2.6			
Number(s) of battery modules recommended by the manufacturer (HV2600)	2	3	4	5
Manufacturer	FOXESS Co., Ltd. (for AC1 and H1 series)			
Accumulator Model / Battery Model	HS 15.6	HS 18.2	HS 20.8	
Capacity of each battery module (kWh)	2.6			
Number(s) of battery modules recommended by the manufacturer (HV2600)	6	7	8	
Manufacturer	FOXESS Co., Ltd. (for AIO-AC1 and AIO-H1 series)			
Accumulator Model / Battery Model	HVS 5.2	HVS 7.8	HVS 10.4	
Capacity of each battery module (kWh)	2.6			
Number(s) of battery modules recommended by the manufacturer (HV2600)	2	3	4	



Renewable Energy

BOS&ESS-T-004 COC



中国认可
产品
PRODUCT
CNAS C183-P

TÜV NORD (HANGZHOU) CO., LTD.
Member of TÜV NORD Group
Tel: +86-571-85386989
Fax: +86-571-85386986
www.tuv-nord.com/cn
P.R. China

Manufacturer	FOXESS Co., Ltd.(for AC1 and H1 series)		
Accumulator Model / Battery Model	ECS2900-H2	ECS2900-H3	ECS2900-H4
Capacity of each battery module (kWh)	2.88		
Number(s) of battery modules recommended by the manufacturer (CM2900&CS2900)	1+1	1+2	1+3
Manufacturer	FOXESS Co., Ltd.(for AC1 and H1 series)		
Accumulator Model / Battery Model	ECS2900-H5	ECS2900-H6	ECS2900-H7
Capacity of each battery module (kWh)	2.88		
Number(s) of battery modules recommended by the manufacturer (CM2900&CS2900)	1+4	1+5	1+6
Manufacturer	FOXESS Co., Ltd.(for AC1 and H1 series)		
Accumulator Model / Battery Model	ECS4100-H2	ECS4100-H3	ECS4100-H4
Capacity of each battery module (kWh)	4.03		
Number(s) of battery modules recommended by the manufacturer (CM4100&CS4100)	1+1	1+2	1+3
Manufacturer	FOXESS Co., Ltd.(for AC1 and H1 series)		
Accumulator Model / Battery Model	ECS4100-H5	ECS4100-H6	ECS4100-H7
Capacity of each battery module (kWh)	4.03		
Number(s) of battery modules recommended by the manufacturer (CM4100&CS4100)	1+4	1+5	1+6
Manufacturer	FOXESS Co., Ltd.(for AC1 and H1 series)		
Accumulator Model / Battery Model	ECS4300H-H2	ECS4300H-H3	ECS4300H-H4
Capacity of each battery module (kWh)	4.15		
Number(s) of battery modules recommended by the manufacturer (CM4300H&CS4300H)	1+1	1+2	1+3
Manufacturer	FOXESS Co., Ltd.(for AC1 and H1 series)		
Accumulator Model / Battery Model	ECS4300H-H5	ECS4300H-H6	ECS4300H-H7
Capacity of each battery module (kWh)	4.15		
Number(s) of battery modules recommended by the manufacturer (CM4300H&CS4300H)	1+4	1+5	1+6



Renewable Energy

BOS&ESS-T-004 COC


 中国认可
 产品
PRODUCT
CNAS C183-P

 TÜV NORD (HANGZHOU) CO., LTD.
 Member of TÜV NORD Group
 Tel: +86-571-85386989
 Fax: +86-571-85386986
 www.tuv-nord.com/cn
 P.R. China

Manufacturer	FOXESS Co., Ltd. (for AC1 and H1 series)		
Accumulator Model / Battery Model	HS 5	HS 7.5	HS 10
Capacity of each battery module (kWh)	2.45		
Number(s) of battery modules recommended by the manufacturer (Mira-BMS&Mira-HV25)	1+2	1+3	1+4
Manufacturer	FOXESS Co., Ltd. (for AC1 and H1 series)		
Accumulator Model / Battery Model	HS 12.5	HS 15	HS 17.5
Capacity of each battery module (kWh)	2.45		
Number(s) of battery modules recommended by the manufacturer (Mira-BMS&Mira-HV25)	1+5	1+6	1+7
Manufacturer	FOXESS Co., Ltd. (for AC1 and H1 series)		
Accumulator Model / Battery Model	HS 20	--	--
Capacity of each battery module (kWh)	2.45		
Number(s) of battery modules recommended by the manufacturer (Mira-BMS&Mira-HV25)	1+8	--	--
Manufacturer	FOXESS Co., Ltd. (for AC1 and H1 series)		
Accumulator Model / Battery Model	ECS2800H-H2	ECS2800H-H3	ECS2800H-H4
Capacity of each battery module (kWh)	2.76		
Number(s) of battery modules recommended by the manufacturer (CM2800H&CS2800H)	1+1	1+2	1+3
Manufacturer	FOXESS Co., Ltd. (for AC1 and H1 series)		
Accumulator Model / Battery Model	ECS2800H-H5	ECS2800H-H6	ECS2800H-H7
Capacity of each battery module (kWh)	2.76		
Number(s) of battery modules recommended by the manufacturer (CM2800H&CS2800H)	1+4	1+5	1+6
Note: The batteries are not integrated into the inverter and must be installed according to the local regulations.			



Renewable Energy

BOS&ESS-T-004 COC


 中国认可
 产品
PRODUCT
CNAS C183-P

 TÜV NORD (HANGZHOU) CO., LTD.
 Member of TÜV NORD Group
 Tel: +86-571-85386989
 Fax: +86-571-85386986
 www.tuv-nord.com/cn
 P.R. China