


Certificate No.: **HC23111402001-EG-IC-C001**

Date of issue: 2023-12-11

Valid until: Indefinitely

<b>Applicant:</b>	<b>FOXESS CO., LTD.</b> No.939, Jinhai Third Road, New Airport Industry Area, Longwan District, Wenzhou, Zhejiang, China
<b>Product:</b>	Hybrid inverter (PV + DC coupled storage): <i>product family H3-Pro-{10.0 ~ 30.0}</i> Storage Inverter: <i>product family AC3-Pro-{10.0 ~ 30.0}</i>
<b>Model(s):</b>	<i>H3-Pro-{10.0 ~ 30.0}</i> : <b>H3-Pro-10.0, H3-Pro-12.0, H3-Pro-15.0, H3-Pro-20.0, H3-Pro-22.0, H3-Pro-24.9, H3-Pro-25.0, H3-Pro-29.9, H3-Pro-30.0;</b> <i>AC3-Pro-{10.0 ~ 30.0}</i> : <b>AC3-Pro-10.0, AC3-Pro-12.0, AC3-Pro-15.0, AC3-Pro-20.0, AC3-Pro-22.0, AC3-Pro-24.9, AC3-Pro-25.0, AC3-Pro-29.9, AC3-Pro-30.0</b>
<b>Trademark:</b>	
<b>Technical data:</b>	Nominal active output power [W]: 10000 ~ 30000 Nominal output AC voltage [V]: 230 / 400 (3~ + N + PE, 50 Hz) (For further details see A.2 on p.2.)
<b>Software version:</b>	Master: V1.05, Slave: V1.01
<b>Applied standard(s) / guideline(s):</b>	<b>IEC 60068-2-1:2007 *</b> Environmental testing – Part 2-1: Tests – Test A: Cold <b>IEC 60068-2-2:2007 *</b> Environmental testing – Part 2-2: Tests – Test B: Dry heat <b>IEC 60068-2-14:2009 *</b> Environmental testing – Part 2-14: Tests – Test N: Change of temperature <b>IEC 60068-2-30:2005 *</b> Environmental testing – Part 2-30: Tests –Test Db and guidance: Damp heat, cyclic (12 + 12-hour cycle) <b>IEC 60068-2-64:2019 *</b> Environmental testing – Part 2-64: Tests –Test Fh: Vibration, broadband random and guidance <b>IEC 61683:1999</b> Photovoltaic systems – Power conditioners – Procedure for measuring efficiency <b>IEC 61727:2004</b> Photovoltaic (PV) systems – Characteristics of the utility interface <b>IEC 62116:2014</b> Utility-interconnected photovoltaic inverters – Test procedure of islanding prevention measures Note: * The marked standards are not within the accreditation scope of the certification body.
<b>Certification scheme:</b>	<b>CMPD-01</b>
<b>Test report no.:</b>	<b>HC23111402001-EG-IC-001</b> (2023-12-08) <b>HC23111402001-EG-IC-002</b> (2023-12-08) <b>HC23111402002-EG-IC-001</b> (2023-12-08) <b>HC23111402003-EG-IC-001</b> (2023-12-08) <b>VTL23.11.070CE</b> (2023-12-01)

This certificate confirms that the above-mentioned product(s) with the corresponding software meet the requirements of the referenced standard(s) / guideline(s) at the time of issuance of the certificate.

This certificate relates to type testing and does not imply LYNS's endorsement, approval, certification or on-going control of the product(s), either in terms of performance, design, manufacture or materials used. This certificate and the results stated herein relate solely to the sample product(s) tested and to the specific tests undertaken.

The certificate will remain valid for the stated period providing no changes are made to the product, production method etc. This certificate is only valid when this is also found at <http://www.lyns-tci.com/en/certificate-search> or contact Lyns-tci Technology Guangdong Co., Ltd..

This certificate is for the exclusive use of LYNS's Client and is provided pursuant to the agreement between LYNS and its Client. LYNS's responsibility and liability are limited to the terms and conditions of the agreement. LYNS assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned using this verification.

The certificate is comprised of 3 pages (including Annex of 2 pages).

Dongguan, 2023-12-11



**Dipl.-Ing. Weizhao Zheng**  
Head of certification body



PCA-159

Certification body Lyns-tci Technology Guangdong Co., Ltd. accredited according to ISO/IEC 17065 for product certification.

This document shall not be reproduced, except in full, without the written approval of Lyns-tci Technology Guangdong Co., Ltd.

## A.1 Revision history of the certificate

Rev. No.	Date	Changes	Status
Rev. 0 (HC23111402001-EG-IC-C001)	2023-12-11	Initial issue	Active

## A.2 Technical data of the power generating unit(s)

Product family	H3-Pro-{10.0 ~ 30.0} / AC3-Pro-{10.0 ~ 30.0}		
Model	H3-Pro-10.0 AC3-Pro-10.0	H3-Pro-12.0 AC3-Pro-12.0	H3-Pro-15.0 AC3-Pro-15.0
DC input (PV) <sup>1</sup>			
Max. DC input voltage [V]	1000		
Operating MPPT voltage range [V]	150 ~ 850		
Max. input DC current	16 A * 3		32 A * 3
Battery connection			
Battery voltage range [V]	150 ~ 800		
Battery charging current	max. 50 A		max. 50 A * 2
Battery discharging current	max. 50 A		max. 50 A * 2
AC connection			
No. of phases	<input type="checkbox"/> Single-phase <input checked="" type="checkbox"/> Three-phase		
Nominal output AC voltage [V]	230 / 400 (3~ + N + PE, 50 Hz)		
Max. output AC current [A]	16.7	20.0	25.0
Nominal active output power [W]	10000	12000	15000
Max. apparent output power [VA]	11000	13200	16500
Model	H3-Pro-20.0 AC3-Pro-20.0	H3-Pro-22.0 AC3-Pro-22.0	H3-Pro-24.9 AC3-Pro-24.9
DC input (PV) <sup>1</sup>			
Max. DC input voltage [V]	1000		
Operating MPPT voltage range [V]	150 ~ 850		
Max. input DC current [A]	32 A * 3		
Battery connection			
Battery voltage range [V]	150 ~ 800		
Battery charging current	max. 50 A * 2		
Battery discharging current	max. 50 A * 2		
AC connection			
No. of phases	<input type="checkbox"/> Single-phase <input checked="" type="checkbox"/> Three-phase		
Nominal output AC voltage [V]	230 / 400 (3~ + N + PE, 50 Hz)		
Max. output AC current [A]	33.3	36.7	37.7
Nominal active output power [W]	20000	22000	24900
Max. apparent output power [VA]	22000	24200	24900

<sup>1</sup> Technical data of the PV input for Product family H3-Pro-{10.0 ~ 30.0} only.

Model	H3-Pro-25.0 AC3-Pro-25.0	H3-Pro-29.9 AC3-Pro-29.9	H3-Pro-30.0 AC3-Pro-30.0
DC input (PV) <sup>2</sup>			
Max. DC input voltage [V]	1000		
Operating MPPT voltage range [V]	150 ~ 850		
Max. input DC current [A]	32 A * 3		
Battery connection			
Battery voltage range [V]	150 ~ 800		
Battery charging current [A]	max. 50 A * 2		
Battery discharging current [A]	max. 50 A * 2		
AC connection			
No. of phases	<input type="checkbox"/> Single-phase		<input checked="" type="checkbox"/> Three-phase
Nominal output AC voltage [V]	230 / 400 (3~ + N + PE, 50 Hz)		
Max. output AC current [A]	41.7	45.4	50.0
Nominal active output power [W]	25000	29900	30000
Max. apparent output power [VA]	27500	29900	33000
Operating temperature range	-25°C ~ +60°C		
Degree of protection	IP65 (according to EN 60529)		
Protection class	I (according to IEC 62109-1)		
Type of internal transformer	No internal transformer (transformerless)		
Firmware version	Master: V1.05, Slave: V1.01		
Manufacturer	<b>FOXESS CO., LTD.</b> No.939, Jinhai Third Road, New Airport Industry Area, Longwan District, Wenzhou, Zhejiang, China		

### A.3 Remarks for type testing

Testing laboratory 1	<b>Lyns-tci Technology Guangdong Co., Ltd.</b> Room 1201, Unit 2, Building 18, No. 7, Science and Technology Boulevard, Houjie Town, Dongguan City, Guangdong, 523960 P.R.C (Accredited acc. ISO/IEC 17025: A2LA Accreditation no. 5200.02)
Testing location 1	Same as above
Measurement period	2023-11-27 ~ 2023-12-05
Testing laboratory 2	<b>Jiangsu Vehicle Testing Services Co., Ltd.</b> Building 6, No.278, Huajin Road, Tongan, SND, Suzhou, Jiangsu, China (Accredited acc. ISO/IEC 17025: CNAS Accreditation no. L12681)
Testing location 2	Same as above
Measurement period	2023-11-22 ~ 2023-11-30

<sup>2</sup> Technical data of the PV input for product family H3-Pro-{10.0 ~ 30.0} only.