

**Applicant:** **FOXESS CO., LTD.**

No.939, Jinhai Third Road, New Airport Industry Area, Longwan District, Wenzhou, Zhejiang, China

**Product:** **PV-Grid-Tied Inverter**

**Model(s):** **R75, R100, R110**

**Use in accordance with regulations:**

Three-phase PV-Grid-Tied Inverter corresponding to grid connection code listed above, with integrated protection relay and disconnection device for the connection to and parallel operation with low-voltage distribution networks.

**Applied standards and guidelines:**

**EN 50549-1:2019**

Requirements for generating plants to be connected in parallel with distribution networks - Part 1-1: Connection to a LV distribution network - Generating plants up to and including Type B

At the time of issue of this verification, a representative test sample of the product named above corresponds to the requirements of the listed test standards for the intended use.

This verification does not imply assessment of the production of the product.

**Report No:** **221026BWA119-EG-EU-001**

**Verification No:** **221026BWA119-EG-EU-C001**

**Date of issue:** **2023-02-28**




**James Huang**  
Technical Director / New Energy Department

## Supplement to verification no. 221026BWA119-EG-EU-C001

### A.1 Technical data of the Power Generating Units

|                                       |   |             |             |
|---------------------------------------|---|-------------|-------------|
| Manufacturer:                         | <b>FOXESS CO., LTD.</b><br>No.939, Jinhai Third Road, New Airport Industry Area, Longwan District, Wenzhou, Zhejiang, China |             |             |
| Model designation:                    | <b>R75</b>  | <b>R100</b> | <b>R110</b> |
| Rated output active power (AC) [kW]:  | 75,0  | 100,0       | 110,0       |
| Max. output apparent power (AC)[kVA]: | 82,5  | 110,0       | 121,0       |
| Max. output current (AC) [A]:         | 119,6   | 166,7       | 175,3       |
| AC nominal voltage [V]:               | 400, 3/N/PE   |             |             |
| AC nominal frequency [Hz]:            | 50  |             |             |
| Software version:                     | Master: V1.04 Slave: V1.00 Manager: V1.06   |             |             |

**CERTIFICATE OF CONFORMITY**

|  |  |
|--|--|
| <b>Applicant:</b>                          | <b>FOXESS CO., LTD.</b><br>No.939, Jinhai Third Road, New Airport Industry Area, Longwan District, Wenzhou, Zhejiang, China  |
| <b>Device Type:</b>                        | PV-Grid-Tied Inverter  |
| <b>Model(s):</b>                           | <b>R75, R100, R110</b>   |
| <b>Trademark:</b>                          |   |
| <b>Technical data:</b>                     | Rated output power [kW]: 75.0 ~ 110.0<br>Nominal output AC voltage: 3/N/PE, 220/380 V, 230/400 V, 50/60 Hz<br>(For further details see <i>Technical data of the generating unit(s) on p.2</i> )                        |
| <b>Software version:</b>                   | Master:V1.04 Slave:V1.00 Manager:V1.06   |
| <b>Applied standard(s) / guideline(s):</b> | <b>EN 50549-1:2019</b><br>Requirements for generating plants to be connected in parallel with distribution networks - Part 1-1: Connection to a LV distribution network - Generating plants up to and including Type B |
| <b>Certification scheme:</b>               | <b>CMPD-01</b>   |
| <b>Test report no.:</b>                    | <b>221026BWA119-EG-EU-001</b> (2023-04-26)   |

The above-mentioned generating unit(s) are certified for type A generating modules.

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

The generating units are considered to be compliant with the relevant articles (see Annex H, EN 50549-1:2019) of *Commission Regulation (EU) 2016/631 of 14 April 2016 establishing a network code on requirements for grid connection of generators* (NC RfG), provided that all settings as specified by the DSO and responsible party are complied with.

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.huachuang-ts.com/plus/list.php?tid=62> 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 2 pages (including Annex of 1 pages).



**Dipl.-Ing. Weizhao Zheng**  
**Certification Officer**

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

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### 1. Technical data of the generating unit(s)

| Model                                   | R75  | R100  | R110      |
|---|--|-------|-----------|
| Max. Input voltage [V]                  | 1100   |       |           |
| MPP input voltage range [V]             | 200 ~ 1000   |       |           |
| Rated full load MPPT voltage [V]        | 550 ~ 850  |       |           |
| Nominal operating voltage [V]           | 600  |       |           |
| Max. input DC current                   | 9 * 26 A   |       | 10 * 26 A |
| Nominal output AC voltage               | 3/N/PE, 220/380 V, 230/400 V, 50/60 Hz   |       |           |
| Max. output AC current [A]              | 113.7* / 119.6   | 166.7 | 175.3     |
| Nominal active output power [kW]        | 75.0   | 100.0 | 110.0     |
| Max. apparent output power [kVA]        | 75.0* / 82.5   | 110.0 | 121.0     |
| Note:<br>marked * only valid in Brazil. |  |       |           |
| Operating temperature range             | -30°C ~ +60°C  |       |           |
| Degree of protection                    | IP66 (according to EN 60529)   |       |           |
| Protection class                        | I (according to IEC 62109-1)   |       |           |
| Type of internal transformer            | No internal transformer (transformerless)  |       |           |
| Software version                        | Master:V1.04 Slave:V1.00 Manager:V1.06   |       |           |
| Manufacturer                            | <b>FOXESS CO., LTD.</b><br>No.939, Jinhai Third Road, New Airport Industry Area, Longwan District, Wenzhou, Zhejiang, China  |       |           |
| Testing laboratory                      | <b>Guangdong HuaChuang Technology Service Co., Ltd.</b><br>Room 815, No.122, Houjie Road (West), Houjie Town, Dongguan City, Guangdong, 523960 P.R. China<br>(Accredited acc. ISO/IEC 17025: A2LA Accreditation no. 5200.02) |       |           |
| Testing location                        | Same as above  |       |           |
| Date(s) of performance of tests         | 2022-10-28 - 2023-02-25  |       |           |

### 2. Conformity assessment

Based on the test results submitted, this certificate provides the following conformity assessment according to the specifications listed on the cover sheet:

| Electrical characteristics |   | Type testing performed              | Assessment     |
|----------------------------|---|-------------------------------------|----------------|
| 4.4                        | Normal operating range  | <input checked="" type="checkbox"/> | Compliant      |
| 4.5                        | Immunity to disturbances  | <input checked="" type="checkbox"/> | Compliant      |
| 4.6                        | Active response to frequency deviation  | <input checked="" type="checkbox"/> | Compliant      |
| 4.7                        | Power response to voltage variations and voltage changes  | <input checked="" type="checkbox"/> | Compliant      |
| 4.8                        | EMC and power quality   | <input checked="" type="checkbox"/> | Compliant      |
| 4.9                        | Interface protection  | <input checked="" type="checkbox"/> | Compliant      |
| 4.10                       | Connection and starting to generate electrical power  | <input checked="" type="checkbox"/> | Compliant      |
| 4.11                       | Ceasing and reduction of active power on set point  | <input checked="" type="checkbox"/> | Compliant      |
| 4.12                       | Remote information exchange   | <input type="checkbox"/>            | Not applicable |
| 4.13                       | Requirements regarding single fault tolerance of interface protection system and interface switch | <input checked="" type="checkbox"/> | Compliant      |

# CERTIFICATE of Conformity



Registration No.: AK 50581593 0001

Report No.: CN23FYQN 001

Holder: **FOXESS CO., LTD.**  
**No.939, Jinhai Third Road,**  
**New Airport Industry Area, Longwan District,**  
**Wenzhou,**  
**325025 Zhejiang**  
**P.R. China**

Product: **PV-Inverter**  
**(PV Grid-Connected Inverter)**

Identification: Type Designation : R75 R100 R110  
Serial Number : Engineering Samples  
Firmware version : Master V1.05 Slave V1.00  
Manager V1.07  
Remark(s) : Refer to report CN23FYQN 001 for details.

Tested acc. to: TOR Erzeuger Typ A Version 1.2  
TOR Erzeuger Typ B Version 1.2  
OVE-Richtlinie R25/03.20

The certificate of conformity refers to the above mentioned product. This is to certify that the specimen is in conformity with the assessment requirement mentioned above. This certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity.

Certification Body

Date 23.05.2023



  
Weichun Li

**TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg**