

Notified Body
TÜV Rheinland
LGA Products GmbH

Tillystraße 2
90431 Nürnberg

notified by the
Bundesnetzagentur für Elektrizität, Gas,
Telekommunikation, Post und Eisenbahnen

under No. 0197

herewith issues an

EU-Type Examination Certificate

within the meaning of Annex III Module B of the 2014/53/EU Radio Equipment Directive (RED)
for compliance with the essential requirements of this directive

Registration Number: RT 60175845 0001

Evaluation Report Nr.: CN24X7ZO 001

Manufacturer: SolaX Power Network Technology
(Zhe jiang) Co., Ltd.
No.288 Shizhu Road
Tonglu Economic Development Zone
Tonglu City,
Zhejiang Province 310000
P.R. China

Product: Radio Equipment
(GRID-CONNECTED PHOTOVOLTAIC MICROINVERTER)

Type Identification: X1-Micro 800 X1-Micro 900 X1-Micro 1000 X1-Micro 1200
(SOLAX POWER)

Essential requirements: 2014/53/EU (RED)
Article 3.1a Health
Article 3.1a Electrical Safety
Article 3.1b EMC
Article 3.2 Radio Spectrum

The technical design of the assessed type has been verified based on the technical documentation presented by the manufacturer according to Annex III Module B of the Directive. As far as the essential requirements indicated, the Notified Body of TÜV Rheinland LGA Products GmbH confirms, that the technical design of the apparatus meets the essential requirements of the Directive 2014/53/EU Article 3.

This certificate consists of this page and Annex I.

Validity of the certificate is specified in the Annex I.

Date 01.04.2024



Notified Body

Ying Xie

Equipment

Product : GRID-CONNECTED PHOTOVOLTAIC MICROINVERTER
Trademark :



Identification : X1-Micro 800, X1-Micro 900, X1-Micro 1000, X1-Micro 1200

Product description : The EUT is a GRID-CONNECTED PHOTOVOLTAIC MICROINVERTER, which supports 2.4G Wi-Fi technology.

System description

Frequency band(s) of operation : 2400 – 2483.5MHz
Operating frequency : 2412 - 2472MHz
Channel spacing / bandwidth : 5MHz/20MHz, 40MHz
RF output power : 18.84dBm
Type of modulation : DSSS, OFDM
Type of antenna : Monopole Antenna
Mode of operation (simplex / duplex) : Simplex
Duty cycle (access protocol, if applicable) : up to 100%
Hardware version : 1.00
Software version : 1.00

Documentation

User information and installation instructions ☒
Block diagram ☒
Circuit diagram ☒
Part list ☒
PCB layout ☒
Photo documentation ☒
Versions of firmware/software used ☒
Statement of compliance with art. 10.2 it can be operated in at least one Member State without infringing applicable requirements on the use of radio spectrum ☒
Risk Analysis ☒

Conformity Assessment

Applied harmonised standards (Referred to the publication of harmonised standards in the official Journal of the EU at the time of issuance)			
Article	Standard	Test Report No.	Issued by
3.1a Health	--	--	--
3.1a Safety	--	--	--
3.1b EMC	--	--	--
3.2 Radio	EN 300 328 V2.2.2	CN24UJM0 001	TÜV Rheinland (Shanghai) Co., Ltd.
3.3 Others	--	--	--

Applied non-harmonised standards			
Article	Standard	Test Report No.	Issued by
3.1a Health	EN IEC 62311:2020	CN24UJM0 001	TÜV Rheinland (Shanghai) Co., Ltd. TÜV Rheinland (Suzhou) Co., Ltd.
3.1a Safety	EN 62109-1: 2010 EN 62109-2: 2011	CN24AIH6 001	
3.1b EMC	EN 301 489-1 V2.2.3 EN 301 489-17 V3.2.4	CN24POK4 001	
	EN IEC 61000-6-1:2019 EN IEC 61000-6-3:2021	CN246GAB 001	

Other solutions, adopted to meet the essential requirements			
Article	Standard	Test Report No.	Issued by
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Rationale for applied non-harmonised standards or other solutions:

- EN 62311 Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz – 300 GHz).
- EN 62109-1 Safety of power converters for use in photovoltaic power systems - Part 1: General requirements Automatic electrical controls - Part 1: General requirements. EN 62109-2 Safety of power converters for use in photovoltaic power systems - Part 2: Particular requirements for inverters.
- EN 301 489-1 Electro Magnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements. EN 301 489-17 Part 17: Specific conditions for Broadband Data Transmission Systems. EN 61000-6-1 Electromagnetic compatibility (EMC) – Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments. EN 61000-6-3 Electromagnetic compatibility (EMC) – Part 6-3: Generic standards - Emission standard for residential, commercial and light industrial environments.

Remarks:

- This Type Examination Certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity.
- This Type Examination Certificate only relates to the assessment of technical documentation to verify that the technical design of radio equipment meets the essential requirements of the RED 2014/53/EU and will not show compliance with essential requirements of other possible applicable EU Directives.
- The manufacturer has declared in compliance with art. 10.2 that the Radio Equipment can be operated in at least one Member State without infringing applicable requirements on the use of radio spectrum.
- Validity of this Type Examination Certificate is limited to the versions of the applied standard. If versions of standards change or modifications are made to the product, this Certificate will be invalidated.