

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 60133915 0001

Evaluation Report Nr.: 50195193 001

Manufacturer: HUAWEI TECHNOLOGIES CO., LTD.

Administration Building,
Headquarters of Huawei
Technologies Co., Ltd.
Bantian, Longgang District
518129 Shenzhen
China

Product: Radio Equipment
(Solar Inverter)

Type

Identification: SUN2000L-5KTL SUN2000L-4.6KTL SUN2000L-4KTL
SUN2000L-3.68KTL SUN2000L-3KTL SUN2000L-2KTL
(HUAWEI)

Essential

requirements: 2014/53/EU (RED)
Article 3.1b EMC

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 07.11.2018



Notified Body

S. Peng

Equipment

Product : Solar Inverter
Trademark : HUAWEI
Identification : SUN2000L-5KTL, SUN2000L-4.6KTL, SUN2000L-4KTL, SUN2000L-3.68KTL, SUN2000L-3KTL, SUN2000L-2KTL
Product description : The product is a home-based PV inverter with 802.11b/g/n functions.

System description

Frequency band(s) of operation : 2400-2483.5 MHz
 Operating frequency : 2412-2472MHz
 Channel spacing / bandwidth : 5MHz / 20MHz
 RF output power : 16dBm (Max. e.i.r.p.)
 Type of modulation : DSSS (DBPSK, DQPSK, CCK), OFDM (BPSK, QPSK, 16QAM, 64QAM)
 Type of antenna : External and Internal
 Mode of operation (simplex / duplex) : Duplex
 Duty cycle (access protocol, if applicable) : Up to 100%

Documentation

User information and installation instructions
 Block diagram
 Circuit diagram
 Part list
 PCB layout
 Photo documentation
 Versions of firmware/software used
 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		
3.3	Others		

Applied non-harmonised standards			
Article	Standard	Test Report No.	Issued by
3.1a	Health		
3.1a	Safety		
3.1b	EMC	50195191 001	TÜV Rheinland (Shenzhen) Co., Ltd.
	EN 301 489-1 V2.2.0 (Draft) EN 301 489-17 V3 2.0 (Draft) EN 61000-6-1:2007 EN 61000-6-3:2007+A1:2011 EN 61000-3-2:2014 EN 61000-3-3:2013 EN 61000-3-11:2000 EN 61000-3-12:2011		
3.2	Radio		
3.3	Others		

Other solutions, adopted to meet the essential requirements			
Article	Standard	Test Report No.	Issued by
3.1a	Health		
3.1a	Safety		
3.1b	EMC		
3.2	Radio		
3.3	Others		

Rationale for applied non-harmonised standards or other solutions:

- EN 301 489-1 ElectroMagnetic 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 Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments; EN 61000-6-3 Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments; EN 61000-3-2 Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase); EN 61000-3-3 Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection; EN 61000-3-11 Part 3-11: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems - Equipment with rated current ≤ 75 A and subject to conditional connection; EN 61000-3-12 Part 3-12: Limits - Limits for harmonic currents produced by equipment connected to public low-voltage systems with input current > 16 A and ≤ 75 A per phase

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.