

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 60172704 0001

Evaluation Report Nr.: CN23HAAS 001

Manufacturer:

Easee ASA
Grenseveien 19
4313 Sandnes
Norway

Product:

Radio Equipment
(Easee Charge Lite)

Type
Identification:

CB-A3-2/L01-STD2-01 (easee)

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 **02.10.2023**



Notified Body


S. Peng

Equipment

Product	: Easee Charge Lite
Trademark	: easee
Identification	: CB-A3-2/L01-STD2-01
Product description	: Easee Charge Lite is an advanced charging solution for homeowners with electrical vehicles.
Remark	: The pre-certified module (ESP32-WROOM-32D and BG95-M3) were integrated into the EUT.

System description

Frequency band(s) of operation	: 11.810 - 15.310 MHz; 868.0 - 868.6 MHz; 2400 - 2483,5 MHz; LTE Band 1/3/8/20/28
Operating frequency	: 13.56 MHz; 868.075 - 868.525 MHz 2.4 GHz WLAN: 2412 - 2472 MHz / 2402 - 2480 MHz LTE Band 1: Uplink: 1920-1980MHz, Downlink: 2110-2170MHz LTE Band 3: Uplink: 1710-1785MHz, Downlink: 1805-1880MHz LTE Band 8: Uplink: 880-915MHz, Downlink: 925-960MHz LTE Band 20: Uplink: 832-862MHz, Downlink: 791-821MHz LTE Band 28: Uplink: 703-748MHz, Downlink: 758-803MHz
Channel spacing / bandwidth	: 100 kHz, 20 MHz, 40 MHz, 10 MHz
RF output power	: 868 MHz: < 13.5 dBm (Max. e.r.p) 2.4 GHz WLAN: 12.25 dBm (Max. e.i.r.p.) BLE: 3.4 dBm (Max. e.i.r.p.) LTE: 21 dBm (Rated RF power) RFID: 3.3 dBuA/m @3m
Type of modulation	: 2-FSK, 2-GFSK, GFSK, DSSS (DBPSK/DQPSK/CCK), OFDM (BPSK, QPSK, 16QAM, 64QAM), QPSK
Type of antenna	: Integral PCB Antenna
Mode of operation (simplex / duplex)	: Duplex
Duty cycle (access protocol, if applicable)	: Up to 100%
Hardware version	: Pwr-board V1-E1 Com-board V1-F2
Software version	: com-board-stm32l4-v4.0.0 power-board-charge-v2.3.0 radio_1_0_5eee75b2dfb41d66fce8aed8ca6e3406d436be0d wifi v1.1.0

Documentation

User information and installation instructions	<input checked="" type="checkbox"/>
Block diagram	<input checked="" type="checkbox"/>
Circuit diagram	<input checked="" type="checkbox"/>
Part list	<input checked="" type="checkbox"/>
PCB layout	<input checked="" type="checkbox"/>
Photo documentation	<input checked="" type="checkbox"/>
Versions of firmware/software used	<input checked="" type="checkbox"/>
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.	<input checked="" type="checkbox"/>
Risk Analysis	<input checked="" type="checkbox"/>

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
3.2 Radio:	EN 300 328 V2.2.2 (2019-07) EN 300 220-2 V3.1.1 (2017-02) EN 300 330 V2.1.1 (2017-02) EN 301 908-1 V15.1.1 (2021-09) EN 301 908-13 V13.2.1 (2022-02)	DE23BGSM 001 DE23EFBG 001 DE23JV8X 001 DE23XNU9 001 DE23ZB6N 001 R2103A0196-R2V1 R2103A0196-R3V1 R2112A1203-R1	TÜV Rheinland LGA Products GmbH TA Technology (Shanghai) Co., Ltd.

Applied non-harmonised standards			
Article	Standard	Test Report No.	Issued by
3.1a Health:	EN IEC 62311:2020	DE23S0IH 001	TÜV Rheinland LGA Products GmbH
3.1a Safety:	EN IEC 61851-1:2019	DE23CHUA 001	TÜV Rheinland LGA Products GmbH
3.1b EMC:	EN 301 489-1 V2.2.3 EN 301 489-3 V2.3.2 EN 301 489-17 V3.2.4 EN 301 489-52 V1.1.2 IEC 61851-21-2:2018	TR-56586-82551-01 423.208.1 Rev.0	TÜV SÜD Product Service GmbH CEcert GmbH

Rationale for applied non-harmonised standards or other solutions:

- EN IEC 62311 Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz to 300 GHz)
- EN IEC 61851-1 Electric vehicle conductive charging system - Part 1: General requirements
- IEC 61851-21-2 Electric vehicle conductive charging system - Part 21-2: Electric vehicle requirements for conductive connection to an AC/DC supply - EMC requirements for off board electric vehicle charging systems
- EN 301 489 ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Part 3: Specific conditions for Short Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz; Part 17: Specific conditions for Broadband Data Transmission Systems; Part 52: Specific conditions for Cellular Communication User Equipment (UE) radio and ancillary equipment

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.