



CERTIFICATE RED-3414

Issue no. 1

**EU TYPE EXAMINATION CERTIFICATE
RADIO EQUIPMENT DIRECTIVE 2014/53/EU**

Product Energy Communication Unit & Microinverter & PCS

Model ECU-R

Series models ECU-B, ECU-C, ELS-5K, ELS-3K, DS3-H, DS3, DS3-M, DS3-L, DS3-S, DS3-L-SPE, DS3-SPE, DS3D-H, DS3D, DS3D-L, DS3D-SH, DS3-LV, QT2, QT2-208, QT2-220, QT2-480, QT2D-H, QT2D, QS2, QS1, QS1-SH, S3, DS4, QT3D

Trademark APsystems & APstorage

Certificate holder / Manufacturer ALTENERGY POWER SYSTEM INC.
Building 2, No. 522, Yatai Road, Nanhu District, Jiaxing City, Zhejiang 314050, China

Other information

Compliance with the requirements on the basis of type examination Product fulfils the requirements of the standard(s) listed on page 2 and the essential requirements set out in Article 3.3d (Cyber security) of the Radio Equipment Directive 2014/53/EU.

Validity This certificate is valid until 2030-04-23 unless the standard in question has been amended or superseded.

The delegated regulation (EU) 2022/30 amended by 2023/2444 is applicable from 2025-08-01 on. Regarding articles 3.3d this certificate will come into effect on 2025-08-01.

Date of issue 2025-04-23

SGS Fimko Oy

Signature



Eddy Zong
Certifier

SGS Fimko Oy is a Notified Body (0598) according to the RE Directive 2014/53/EU.

Certificate issued by

SGS Fimko Oy
Takomotie 8
FI-00380 Helsinki, Finland
t. +358 9 696 361 www.sgs.com
Business ID 0634247-4

Member of the SGS Group (SGS SA)



Applied standards

Article	Standard
3.3d	EN 18031-1:2024

Test reports

Testing Laboratory	Report Number	Date
SGS Brightsight China	25-CSRPT-019	2025-03-14

Technical information

Model	Hardware version	Software version	RF Function
ECU-R	REV2.0.8	V2	Bluetooth Zigbee, WLAN
ECU-B	REV1.0.9	V1	Zigbee Wi-Fi
ECU-C	REV1.0.10	V1	
ELS-5K, ELS-3K	REV1.2.28	V1	
DS3-H, DS3, DS3-M, DS3-L, DS3-S, DS3-L-SPE, DS3-SPE	REV3.8.3A	V5	Zigbee
DS3D-H, DS3D, DS3D-L, DS3D-SH	REV3.4.7	V8	Zigbee
QT2	REV3.9.3	V3	Zigbee
QT2D-H, QT2D	REV2.1.3	V7	Zigbee
QS2	REV2.2.3	V1	Zigbee
QS1, QS1-SH	REV1.3.1	V6	Zigbee
QT2-208, QT2-220	REV1.2.2	V2	Zigbee
DS3-LV	REV2.2.3	V1	Zigbee
QT2-480	REV3.9.3	V5	Zigbee
S3, DS4, QT3D	REV1.0	V1	Zigbee

Bluetooth:

Frequency Band: 2402 – 2480 MHz

Max declared Output Power: 8.57 dBm (EIRP)

Wi-Fi:

Frequency Band: 2412 – 2472 MHz

Max declared Output Power: 16.56 dBm (EIRP)

Zigbee:

Frequency Band: 2405 - 2480 MHz

Max declared Output Power: 9.50 dBm (EIRP)

Additional information

This type examination certificate is based on the inspection of the technical documentation ref. no. TF_SH-CERT250302471-01 provided by the manufacturer.

According to the manufacturer's declaration all products share the same cyber security design. The main difference between them is the appearance, rated power and number of ports which does not impact the cybersecurity functionality.

This certificate is valid only for the models mentioned in this certificate.

The manufacturer must inform SGS Fimko if any technical or electrical changes made to the product covered by this certificate, as unauthorised modifications would invalidate this certificate.