



Organismo Notificado Nº 0370

CERTIFICADO DE EXAMEN UE DE TIPO

EU-TYPE EXAMINATION CERTIFICATE



No. **0370-RED-5524**

EMITIDO POR / ISSUED BY	LGAi TECHNOLOGICAL CENTER - No. 0370 (APPLUS)	
SOLICITANTE / APPLICANT	TOPDON TECHNOLOGY Co., Ltd	
FABRICANTE (Nombre, Dirección) <i>MANUFACTURER (Name, Address)</i>	TOPDON TECHNOLOGY Co., Ltd Unit 2005 20/F, No.3040 Xinghai Avenue, Qianghai Shima Tower, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, P.R.China	
COMERCIALIZADO POR (marca) <i>COMMERCIALISED BY (Brand)</i>	TOPDON	
PRODUCTO <i>PRODUCT</i>	AC EV Charging Station	
TIPOS <i>TYPES</i>	PulseQ AC Home_22K_EU, PulseQ AC Home_11K_EU, PulseQ AC Home_7K_EU, PulseQ AC Home_3K_EU, PulseQ AC Home_3K_S_EU, PulseQ AC Home_7K_S_EU, PulseQ AC Home_11K_S_EU, PulseQ AC Home_22K_S_EU	
Versión HW / FMW <i>HW / FMW version</i>	SW: V1.0 HW: V1.0	
DIRECTIVA APLICABLE <i>APPLICABLE DIRECTIVE</i>	DIRECTIVA 2014/53/UE DEL PARLAMENTO EUROPEO Y DEL CONSEJO, DE 16 DE ABRIL DE 2014, RELATIVA A LA ARMONIZACIÓN DE LAS LEGISLACIONES DE LOS ESTADOS MIEMBROS SOBRE LA COMERCIALIZACIÓN DE EQUIPOS RADIOELÉCTRICOS <i>DIRECTIVE 2014/53/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 16 APRIL 2014 ON THE HARMONISATION OF THE LAWS OF THE MEMBER STATES RELATING TO THE MAKING AVAILABLE ON THE MARKET OF RADIO EQUIPMENT</i>	
DESCRIPCIÓN <i>DESCRIPTION</i>	The device is an AC EV Charging Station with 2.4G WLAN and RFID 13.56MHz.	
CUMPLE CON LOS REQUISITOS ESENCIALES <i>MEET ESSENTIAL REQUIREMENTS</i>	Art.3.1a Salud y Seguridad / <i>Art.3.1a Health & Safety</i>	☒ Art. 3.2 Uso eficiente del espectro radioeléctrico / <i>Art.3.2 Efficient use of Radio spectrum</i>
	Art.3.1b EMC / <i>Art.3.1b EMC</i>	☒ Art. 3.3 Características especiales / <i>Art.3.3 Special characteristics</i>

Este documento carece de validez sin su anexo, cuyo número coincide con el del presente certificado. // *This document is not valid without its technical annex, whose number coincides with the number of the certificate.*

La evaluación de la documentación técnica entregada se encuentran recogidos en el expediente técnico número: 22/36404217
The evaluation of the technical documentation delivered is included in the technical file number: 22/36404217

Restricciones (si aplican) / *Restrictions (if apply):* N/A

Bellaterra, 28 de septiembre de 2022 // *28th September 2022*

 **Applus⁺**
LGAi Technological Center, S.A.

José Luis Medina
Director
Electrical & Electronics - Spain

Este Certificado es válido mientras no se produzcan cambios en el estado de la técnica que indiquen que el equipo radioeléctrico aprobado ya no puede cumplir los requisitos esenciales de la Directiva 2014/53/UE y no haya notificaciones en el tipo aprobado que puedan afectar a la conformidad con los requisitos esenciales de la Directiva 2014/53/UE
This Certificate is valid as long as there are no changes in the prior art indicating that the approved radio equipment can no longer meet the essential requirements of Directive 2014/53/EU and there are no notifications of the approved type that may affect the Accordance with the essential requirements of Directive 2014/53/EU



ANEXO TÉCNICO

TECHNICAL ANNEX

0370-RED-5524

A. MODEL DESCRIPTION

A.1. GENERAL INFORMATION ON THE RADIO EQUIPMENT:

Manufacturing country: China

Brand: **TOPDON**

Commercial designation: **TOPDON**

Country of commercialization: European Union

Radio service: 2.4G WLAN and RFID 13.56MHz

Application: AC EV Charging Station

A.1.1 TRADE VERSIONS/VARIANTS: PulseQ AC Home_22K_EU, PulseQ AC Home_11K_EU, PulseQ AC Home_7K_EU, PulseQ AC Home_3K_EU, PulseQ AC Home_3K_S_EU, PulseQ AC Home_7K_S_EU, PulseQ AC Home_11K_S_EU, PulseQ AC Home_22K_S_EU

A.2. FEATURES: AC EV Charging Station

A.3. SOFTWARE VERSION(S): V1.0

A.4. HARDWARE VERSION(S): V1.0

A.5. OTHER COMPONENTS

- **Disposable antenna** YES ☐ NO ☒
 - o **Antenna gain (dBi)*:**
(*) only in case of YES
- **Connector for conductive charging of electric Vehicles(model, manufacturer, characteristics,..):**
 - (1) PulseQ AC Home_22K_EU:**
Manufacturer: Suzhou Yihang Electronic Science & Technology Co.,Ltd.
Model: WB-IC-AC1.0-32AT
Specification: 480VAC, 32A
 - Manufacturer: Onitl Cable Technology Corp.
Model: AG-IEC2-IIe-32P-3
Specification: 480VAC, 32A
 - Manufacturer: SUZHOU CHILYE GREEN Technology Co., Ltd.
Model: CL-C3ICAT06

ANEXO TÉCNICO *TECHNICAL ANNEX*

0370-RED-5524

Specification: 480VAC, 32A

Manufacturer: JiangSu ZiLong New Energy Technology Co., Ltd.
Model: ZL-IEC-AC32-PS-3
Specification: 480VAC, 32A

Manufacturer: Zhangjiagang Uchen New Energy Technology Co., Ltd
Model: DSIEC2e-EV32P(3P+N+PE)
Specification: 480VAC, 32A

(2) PulseQ AC Home_11K_EU:

Manufacturer: Suzhou Yihang Electronic Science & Technology Co.,Ltd.
Model: WB-IC-AC1.0-16AT
Specification: 480VAC, 16A

Manufacturer: Onitl Cable Technology Corp.
Model: AG-IEC2-Ile-16P-3
Specification: 480VAC, 16A

Manufacturer: SUZHOU CHILYE GREEN Technology Co., Ltd.
Model: CL-C3ICAT03
Specification: 480VAC, 16A

Manufacturer: JiangSu ZiLong New Energy Technology Co., Ltd.
Model: ZL-IEC-AC16-PS-3
Specification: 480VAC, 16A

Manufacturer: Zhangjiagang Uchen New Energy Technology Co., Ltd
Model: DSIEC2e-EV16P(3P+N+PE)
Specification: 480VAC, 16A

(3) PulseQ AC Home_7K_EU:

Manufacturer: Suzhou Yihang Electronic Science & Technology Co.,Ltd.
Model: WB-IC-AC1.0-32AS
Specification: 250VAC, 32A

Manufacturer: Onitl Cable Technology Corp.
Model: AG-IEC2-Ile-32P
Specification: 250VAC, 32A

Manufacturer: SUZHOU CHILYE GREEN Technology Co., Ltd.
Model: CL-C3ICA06
Specification: 250VAC, 32A

Manufacturer: JiangSu ZiLong New Energy Technology Co., Ltd.

ANEXO TÉCNICO *TECHNICAL ANNEX*

0370-RED-5524

Model: ZL-IEC-AC32-PS
Specification: 250VAC, 32A

Manufacturer: Zhangjiagang Uchen New Energy Technology Co., Ltd
Model: DSIEC2e-EV32P(1P+N+PE)
Specification: 250VAC, 32A

(4) PulseQ AC Home_3K_EU

Manufacturer: Suzhou Yihang Electronic Science & Technology Co., Ltd.
Model: WB-IC-AC1.0-16AS
Specification: 250VAC, 16A

Manufacturer: Onitl Cable Technology Corp.
Model: AG-IEC2-Ile-16P
Specification: 250VAC, 16A

Manufacturer: SUZHOU CHILYE GREEN Technology Co., Ltd.
Model: CL-C3ICA03
Specification: 250VAC, 16A

Manufacturer: JiangSu ZiLong New Energy Technology Co., Ltd.
Model: ZL-IEC-AC16-PS
Specification: 250VAC, 16A

Manufacturer: Zhangjiagang Uchen New Energy Technology Co., Ltd
Model: DSIEC2e-EV16P(1P+N+PE)
Specification: 250VAC, 16A

(1) PulseQ AC Home_7K_EU, PulseQ AC Home_3K_EU, PulseQ AC Home_7K_S_EU, PulseQ AC Home_3K_S_EU:

- AC incoming line(model, manufacturer, characteristics,..):

Manufacturer: Guangdong OMG Transmitting Technology Co., Ltd.
Model: EVC H07BZ5-F
Specification: 450/750V, 3*6mm²

Manufacturer: Shanghai Qiaopu Wire & Cable Co., Ltd
Model: HPKMCE
Specification: 300/500V, 3*6mm²

ANEXO TÉCNICO *TECHNICAL ANNEX*

0370-RED-5524

(2) PulseQ AC Home_22K_EU, PulseQ AC Home_22K_S_EU:

- **AC incoming line(model, manufacturer, characteristics,..):**

Manufacturer: Guangdong OMG Transmitting Technology Co.,Ltd.

Model: EVC H07BZ5-F

Specification: 450/750V, 5*6mm²

Manufacturer: Shanghai Qiaopu Wire & Cable Co., Ltd

Model: HPKMCE

Specification: 300/500V, 5*6mm²

(3) PulseQ AC Home_11K_EU, PulseQ AC Home_11K_S_EU:

- **AC incoming line(model, manufacturer, characteristics,..):**

Manufacturer: Guangdong OMG Transmitting Technology Co.,Ltd.

Model: EVC H07BZ5-F

Specification: 450/750V, 5*4mm²

Manufacturer: Shanghai Qiaopu Wire & Cable Co., Ltd

Model: HPKMCE

Specification: 300/500V, 5*4mm²

ANEXO TÉCNICO TECHNICAL ANNEX

0370-RED-5524

A.6. OPERATING FREQUENCIES AND MAXIMUM POWER EMITTED BY BAND

BAND	SERVICE	OPERATIONAL FREQUENCY (TX)		MAX POWER*	CNAF IR	CNAF/ UN-XXX
Band 1	2.4G WLAN	F_min: 2412MHz	F_max: 2472MHz	17.35dBm	IR-163	UN-85
Band 2	RFID	F_min: 13.56MHz	F_max: 13.56MHz	20.28dBμA/m, 3m	IR-116	UN-114

N/A: Not applicable
N/D: Not defined

* Conducted power for mobile technologies and EIRP for other technologies.

A.7. OTHER PARAMETERS OF RADIO INTERFACE SPECIFICATIONS (RI)

Requires license/Use authorization: YES ☐ NO ☒

B. TEST PROTOCOL

REQUIREMENT	STANDARD	LABORATORY	Report no.
Health and Safety (Article 3.1a)	EN IEC 61851-1:2019	Shenzhen Nore Testing Center Co., Ltd.	SZNTC2209025SV00
	IEC 62955:2018		
	IEC 61008-1:2010 (Third Edition)+A1:2012+A2:2013		
	EN IEC 62311:2020	Dongguan Nore Testing Center Co., Ltd.	NTC2209061EV00 NTC2209060EV00
	EN 50665:2017		
	EN 50364: 2018		
EMC (Article 3.1b)	EN 301 489-1 V2.2.3	Dongguan Nore Testing Center Co., Ltd.	NTC2209057EV00 NTC2209056EV00
	EN 301 489-3 V2.1.1		
	EN 301 489-17 V3.2.4		
	EN IEC 61000-6-3:2021		
	EN IEC 61000-6-4:2019		
	EN IEC 61000-6-1:2019		
	EN IEC 61000-6-2:2019		
Radio Aspects (Article 3.2)	EN IEC 61851-21-2:2021	Shenzhen Nore Testing Center Co., Ltd.	SZNTC2209024EV00
	EN 300 328 V2.2.2	Dongguan Nore Testing Center Co., Ltd.	NTC2209058EV00
	EN 300 330 V2.1.1		NTC2209059EV00

ANEXO TÉCNICO *TECHNICAL ANNEX*

0370-RED-5524

C. RESTRICTIONS

Restrictions: YES ☐ NO ☒

D. ACTIVITIES CARRIED OUT BY THE NB

Technical Documentation Review

- | | | |
|---|---|--|
| ☐ Assembly drawings(s) | ☒ Block diagram | ☒ Circuit diagram/schematics |
| ☒ External photographs | ☒ Label drawing/location | ☒ User manual |
| ☒ Internal photographs | ☒ Operational description | ☒ Risk Assessment |
| ☒ Test set-up photographs | ☒ Test reports | ☒ EU declaration of conformity |
| ☒ Bill of materials | ☒ PCB layout | |
| ☐ Installation diagrams and explanations | ☒ List of applied (harmonized and non-harmonized) standards | |

Other activities

- ☒ RIS
- ☒ EFIS/CNAF
- ☒ Review Technical Justifications
- ☒ Analysis report
- ☒ EU type certification issued

E. ADDITIONAL INFORMATION:

Radio Equipment Directive 2014/53/EU, Article 10.4: Manufacturers shall keep the technical documentation and the EU declaration of conformity for 10 years after the radio equipment has been placed on the market.

Radio Equipment Directive 2014/53/EU, Annex III, Module B.7: The manufacturer shall inform the notified body that holds the technical documentation relating to the EU-type examination certificate of all modifications to the approved type that may affect the conformity of the radio equipment with the essential requirements of this Directive or the conditions for validity of that certificate. Such modifications shall require additional approval in the form of an addition to the original EU-type examination certificate.

This review includes draft standards, deviations from the standards and technical justification for compliance.