

EU DECLARATION OF CONFORMITY

Single declaration covering all applicable Union harmonisation legislation
(in accordance with Decision No 768/2008/EC, Annex III, and the Blue Guide 2022, section 4.4 - a single DoC may combine all applicable directives)

DoC reference: DoC-EWL-2026-ALL | Revision: 01 | Issue date: see signature block

1. Product

Item	Value
Product name	EcoWallter
Product type	Mode 3 fixed AC wall-mounted charging station (wallbox) with integrated cellular telemetry (LTE), Wi-Fi and Bluetooth Low Energy
Type designation	Type 2 - 32 A, Mode 3 AC charging station
Model	11 kW / 22 kW
Variants	Tethered cable Type 2 (6.5 / 10 / 15 m) or Type 2 socket-outlet; connectivity Bluetooth, Wi-Fi, or Wi-Fi + LTE
Product code	[TO BE CONFIRMED - the code EVCH420RE1001VC20 previously used is not valid]
Rated voltage	3 + N + PE 400 V AC / 230 V AC, 50 Hz
Rated power	11 kW / 22 kW (3P+N+PE)
Rated current	16 A / 32 A
Charging current range	6 A to 32 A, continuously adjustable in 1 A steps
Protection class	I
Ingress protection	IP54
Operating temperature	-25 °C to +45 °C
Vehicle connector	Type 2 per EN IEC 62196-2:2022
Serial number / batch	See product rating label; 2026 onwards

2. Manufacturer

R-EVC s.r.o.
Mokrá 317, 664 04 Mokrá - Horákov, Czech Republic
ID (IČ): 05403570

3. Declaration

This declaration of conformity is issued under the sole responsibility of the manufacturer.

The object of the declaration described above is in conformity with **all** the relevant Union harmonisation legislation listed below:

- **Directive 2014/53/EU** (Radio Equipment Directive - RED)
- **Directive 2014/35/EU** (Low Voltage Directive - LVD)*
- **Directive 2014/30/EU** (Electromagnetic Compatibility Directive - EMC)*
- **Directive 2011/65/EU** as amended by Commission Delegated Directive **(EU) 2015/863** and **(EU) 2017/2102** (Restriction of Hazardous Substances - RoHS)

*) For radio equipment, the protection objectives of the LVD (safety) and the EMC Directive are covered by RED Article 3.1(a) and 3.1(b) respectively. They are nevertheless listed here explicitly and supported by the full safety and EMC evidence, so that this single document also serves as the LVD and EMC declaration for the non-radio aspects of the product.

4. References to the relevant harmonised standards used

4.1 Electrical safety - RED Art. 3.1(a) / LVD 2014/35/EU

Standard	Title
EN IEC 61851-1:2019 + AC:2023-12	Electric vehicle conductive charging system - Part 1: General requirements (Mode 3)
EN 61851-22:2002	Electric vehicle conductive charging system - Part 22: AC electric vehicle charging station
EN IEC 62196-1:2022	Plugs, socket-outlets, vehicle connectors and vehicle inlets - Part 1: General requirements
EN IEC 62196-2:2022	Plugs, socket-outlets, vehicle connectors and vehicle inlets - Part 2: Dimensional compatibility requirements for AC pin and contact-tube accessories (Type 2)
EN IEC 62955:2018	Residual direct current detecting device (RDC-DD) to be used for mode 3 charging of electric vehicles (integrated 6 mA DC detection)
EN 62423:2012	Type F and type B residual current operated circuit-breakers (integrated 30 mA AC residual current protection)
EN IEC 62893-1:2017 / -2:2017	Charging cables for electric vehicles up to 0.6/1 kV (tethered variants)
EN 60529:1991 + A1 + A2	Degrees of protection provided by enclosures (IP code) - IP54

4.2 Electromagnetic compatibility - RED Art. 3.1(b) / EMC 2014/30/EU

Standard	Title
EN IEC 61851-21-2:2021	Electric vehicle charging - Part 21-2: EMC requirements for off-board electric vehicle charging systems
EN 55014-1:2021 ed.4 (CISPR 14-1)	Electromagnetic compatibility - Emission requirements for household and similar apparatus
EN IEC 61000-3-2:2019 + A1 + A2 / EN 61000-3-3:2013 + A1 + A2	Harmonic current emissions / voltage fluctuations and flicker
EN IEC 61000-4-2/-3/-4/-5/-6/-8/-11	Immunity (ESD, radiated RF, EFT/burst, surge, conducted RF, power-frequency magnetic field, voltage dips)
EN 301 489-1 V2.2.3 / -52 V1.2.1	EMC standard for radio equipment - cellular (LTE) - inherited from Quectel EG915U-EU module
EN 301 489-1 V2.2.3 / -17 V3.3.1	EMC standard for radio equipment - 2.4 GHz Wi-Fi / BLE - inherited from Espressif ESP32-S3-WROOM-1 module

4.3 Radio / effective use of spectrum - RED Art. 3.2

Standard	Title
EN 301 511 V12.5.1 + EN 301 908-1 V15.2.1 / EN 301 908-13 V13.2.1	Cellular - GSM / LTE (Cat 1bis / LTE-M / NB-IoT) - inherited from Quectel EG915U-EU module certification
EN 300 328 V2.2.2	2.4 GHz wideband transmission systems (Wi-Fi 802.11 b/g/n + BLE 5.0) - inherited from Espressif ESP32-S3-WROOM-1-N16R8 module
EN IEC 62311:2020	Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz)

The product integrates **two pre-certified radio modules**, both used per the module manufacturer's integration guide with no modification to the modules' hardware or RF parameters. The radio subsystem is identical to that of the EcoVolter II product (same modules, same hardware, same firmware).

Radio function	Cellular telemetry (LTE)	Wi-Fi + Bluetooth (local)
Module	Quectel EG915U-EU (pre-certified)	Espressif ESP32-S3-WROOM-1-N16R8 (pre-certified)
Technology	LTE Cat 1bis / LTE-M / NB-IoT	Wi-Fi 802.11 b/g/n (2.4 GHz) + BLE 5.0 only (no Classic BR/EDR)
Frequency bands	LTE-FDD B1/B3/B7/B8/B20/B28 (790 - 2690 MHz)	2400 - 2483.5 MHz (ISM)
Max RF output power	Class 3, +23 dBm typ. (per module data sheet)	Wi-Fi +20 dBm EIRP / BLE +10 dBm EIRP (per module data sheet, limited per EN 300 328)

4.4 Cybersecurity - RED Art. 3.3(d)(e)(f)

Commission Delegated Regulation (EU) 2022/30 activates RED Article 3.3(d), (e) and (f) for internet-connected radio equipment from 1 August 2025. The product connects to the internet over Wi-Fi and LTE, therefore these requirements apply.

Requirement	Standard	Application
Art. 3.3(d) - network protection	EN 18031-1:2024	Applied in full
Art. 3.3(e) - protection of personal data and privacy	EN 18031-2:2024	Applied in full
Art. 3.3(f) - protection from fraud	EN 18031-3:2024	Not applicable. The product does not enable the transfer of money, monetary value or virtual currency. Energy metering data is used for internal accounting only and the product processes no payment transactions.

Restrictions in the OJEU listing. The harmonised listing of EN 18031-2 and EN 18031-3 carries a restriction concerning access-control mechanisms where the standard permits a device to be supplied with a default password. This restriction does not affect this product: **no fixed default passwords are used**; access credentials are derived from the unique hardware identifier of each individual unit. The presumption of conformity is therefore not limited for this product.

Supporting security measures:

- signed firmware, over-the-air updates with two-sector rollback
- no fixed default passwords - credentials generated from the hardware UID per unit
- backend communication over HTTPS/TLS, authenticated
- local API with user-managed keys and configurable transport security level
- baseline consistent with EN 303 645

4.5 Restriction of hazardous substances - RoHS 2011/65/EU + (EU) 2015/863

Standard	Title
EN IEC 63000:2018	Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances. Category 11. All ten restricted substances within limits (Pb/Hg/CrVI/PBB/PBDE/DEHP/BBP/DBP/DIBP ≤ 0.1 %; Cd ≤ 0.01 %).

4.6 Environmental / chemical declarations (informative)

Regulation	Status
Regulation (EC) 1907/2006 (REACH) Art. 33 - SVHC	No SVHC > 0.1 % w/w; no SCIP notification required
Regulation (EU) 2019/1021 (POPs)	No listed POPs above trace thresholds

5. Conformity assessment

Module A (internal production control) per Annex II of Directives 2014/53/EU, 2014/35/EU, 2014/30/EU and 2011/65/EU. Fully harmonised standards covering the applicable essential requirements have been applied, and both radio functions use pre-certified third-party modules integrated per their manufacturers' hardware design guides.

Note on evidence: no third-party inspection has been carried out for this product. The radio and electronics subsystem is shared with the EcoVolter II, for which third-party test evidence exists; the enclosure, mounting arrangement and Mode 3 charging circuit are specific to this product and are supported by the manufacturer's own technical documentation.

Article 3.3 cybersecurity: conformity is declared by self-assessment under Module A against EN 18031-1:2024 and EN 18031-2:2024, both applied in full. Article 3.3(f) and EN 18031-3 are not applicable to this product. No notified body involvement is required, as the OJEU restriction on the EN 18031 listing concerns default passwords, which this product does not use. See section 4.4.

6. Technical documentation

The Technical Construction File is held at the manufacturer's premises and available to market surveillance authorities upon request for **10 years** after the last unit was placed on the market. File references: TCF-EWL-RED-2026 / -LVD-2026 / -EMC-2026 / -RoHS-2026.

7. Signed for and on behalf of

R-EVC s.r.o.

Mokrá 317, 664 04 Mokrá - Horákov, Czech Republic

Date and place: Mokrá - Horákov, 12 September 2026

Name: **Tomáš Richtr**

Position: Managing Director

Signature:

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This declaration ceases to be valid if the product is modified, redesigned or used contrary to the operating instructions specified in the user manual, or if components from non-qualified sources are used.