
Cestna vozila - Polnilne baterije z notranjim shranjevanjem energije - Digitalni potni list baterije za baterije EV

Road vehicles - Rechargeable batteries with internal energy storage - Digital battery passport data for EV battery

Straßenfahrzeuge - Wiederaufladbare Batterien mit internen Energiespeicher - Leitlinie zur Datenerläuterung, die im EU-Batteriepass gefordert sind

Véhicules routiers - Batteries rechargeables avec stockage interne d'énergie – Lignes directrices concernant les données requises pour le passeport européen sur les batteries

Ta slovenski standard je istoveten z: **FprCEN/TS 18363**

ICS:

29.220.20	Kislinski sekundarni člani in baterije	Acid secondary cells and batteries
43.120	Električna cestna vozila	Electric road vehicles

kSIST-TS FprCEN/TS 18363:2026 **en,fr,de**

Sample Document

get full document from standards.iteh.ai

TECHNICAL SPECIFICATION
SPÉCIFICATION TECHNIQUE
TECHNISCHE SPEZIFIKATION

FINAL DRAFT
FprCEN/TS 18363

June 2026

ICS 29.220.20

English Version

Road vehicles - Rechargeable batteries with internal
energy storage - Digital battery passport data for EV
battery

Véhicules routiers - Batteries rechargeables avec
stockage interne d'énergie - Lignes directrices
concernant les données requises pour le passeport
européen sur les batteries

Straßenfahrzeuge - Wiederaufladbare Batterien mit
internen Energiespeicher - Leitlinie zur
Datenerläuterung, die im EU-Batteriepass gefordert
sind

This draft Technical Specification is submitted to CEN members for Vote. It has been drawn up by the Technical Committee CEN/TC 301.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and United Kingdom.

Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Warning : This document is not a Technical Specification. It is distributed for review and comments. It is subject to change without notice and shall not be referred to as a Technical Specification.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

© 2026 CEN All rights of exploitation in any form and by any means reserved
worldwide for CEN national Members.

Ref. No. FprCEN/TS 18363:2026 E

Contents	Page
European foreword	4
Introduction	5
1 Scope.....	6
2 Normative references.....	6
3 Terms and definitions.....	6
4 Abbreviated terms.....	11
5 Introduction to the battery passport.....	12
5.1 Battery passport access	12
5.2 Information contained by the battery passport	12
6 EV battery passport content requirements.....	12
6.1 Information accessible to the general public related to the battery model	12
6.1.1 Information identifying the manufacturer.....	12
6.1.2 Battery category	13
6.1.3 Place of manufacture	13
6.1.4 Date of manufacture	13
6.1.5 Weight (in kg).....	13
6.1.6 Capacity (in Ah)	13
6.1.7 Chemistry.....	13
6.1.8 Hazardous substances.....	14
6.1.9 Usable extinguishing agent	14
6.1.10 Critical raw materials.....	14
6.1.11 Carbon footprint information (in kg CO ₂ e/kWh)	14
6.1.12 Information on responsible sourcing as indicated in the report on battery due diligence policy.....	14
6.1.13 Recycled content information (in %)	14
6.1.14 Share of renewable content (in %).....	15
6.1.15 Minimum, nominal and maximum voltage (in V).....	15
6.1.16 Original power capability and limits (in W)	15
6.1.17 Expected battery lifetime expressed in cycles, and reference test used	15
6.1.18 Capacity threshold for exhaustion (in Ah).....	15
6.1.19 Temperature range in which the battery can withstand when not in use (in °C)	15
6.1.20 Period for which the commercial warranty for the calendar life applies	15
6.1.21 Initial round trip energy efficiency and at 50 % of cycle-life (in %)	15
6.1.22 Internal battery cell and pack resistance (in Ω).....	15
6.1.23 C-rate of relevant cycle-life test.....	15
6.1.24 Marking requirements.....	16
6.1.25 EU declaration of conformity.....	16
6.1.26 Information regarding the prevention and management of waste batteries	16
6.2 Information relating to the battery model accessible only to persons with a legitimate interest and the EU Commission	16
6.2.1 General.....	16
6.2.2 Detailed composition, including materials used in the cathode, anode and electrolyte	16

6.2.3	Part numbers for component and contact details of sources for replacement spares	17
6.2.4	Dismantling information	17
6.2.5	Safety measures	17
6.3	Information accessible only to notified bodies, market surveillance authorities and the EU Commission	17
6.4	Information and data relating to an individual battery accessible only to persons with a legitimate interest	18
6.4.1	General	18
6.4.2	Values for performance and durability parameters, when the battery is placed on the market and when it is subject to changes in its status	18
6.4.3	Information on the state of health of the battery	19
6.4.4	Information and data resulting from its use	19
	Annex A (normative) List of data attributes	21
	Annex B (informative) Data representation	27
	Bibliography	28

Sample Document

get full document from standards.iteh.ai

FprCEN/TS 18363:2026 (E)**European foreword**

This document (FprCEN/TS 18363:2026) has been prepared by Technical Committee CEN/TC 301 “Road vehicles”, the secretariat of which is held by DIN.

This document is currently submitted to the Vote on TS.

Sample Document

get full document from standards.iteh.ai

Introduction

The European regulation 2023/1542 requests each individual EV battery placed on the market or put into service to have an electronic record ('battery passport'). The battery passport contains information relating to the battery model and information specific to the individual battery, including resulting from the use of that battery.

This document transfers the actual and anticipated legal requirements into definitions of data points and provides a guidance for application to responsible economic operators implementing the battery passport for an EV battery.

The requirements given reflect the current best knowledge and might be subject to change due to further delegated and implementing acts issued in due course. In addition to the requirements mandated by the EU Battery Regulation, this document builds on the Eco-design for Sustainable Products Regulation and further regulatory requirements to highlight the harmonization need.

This document provides a guidance to have a common understanding about the meaning of the different data required by the battery passport for an EV battery.

Each operator can include additional parameters.

As the document focuses on the data attributes, it excludes technical requirements for the architecture of the digital "operating system" of the battery passport, which are addressed within the working group CEN/CLC JTC 24.

Sample Document

get full document from standards.iteh.ai

FprCEN/TS 18363:2026 (E)

1 Scope

This document explains digital battery passport data attributes for EV battery.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 18060, *Road vehicles - Rechargeable batteries with internal energy storage - Performance and durability of alkali-Ion (Li-Ion, Na-Ion), Pb, NiMH and combined chemistries EV modules and batteries*

EN 18061, *Road vehicles - Rechargeable batteries with internal energy storage - Steps, conditions and protocols for the safe repair and re-use and preparation for repurposing of modules and batteries designed for EV applications*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp/>
- IEC Electropedia: available at <https://www.electropedia.org/>

3.1

accident

unfortunate event, disaster, mishap

[SOURCE: ISO 15928-7:2021]

3.2

battery

device delivering electrical energy generated by direct conversion of chemical energy, having internal or external storage, and consisting of one or more non-rechargeable or rechargeable battery cells, modules or of packs of them, and includes a battery that has been subject to preparation for re-use, preparation for repurposing, repurposing, or remanufacturing

[SOURCE: Regulation (EU) 2023/1542]

3.3

battery manufacturer

any natural or legal person who manufactures a battery or has a battery designed or manufactured, and markets that battery under its own name or trademark or puts it into service for its own purposes

[SOURCE: Regulation (EU) 2023/1542]

3.4

battery identification number

unique string of characters for the identification of batteries that also enables a web link to the battery passport

Note 1 to entry: Battery Identification Number is the unique identifier referred to in Regulation (EU) 2023/1542.

[SOURCE: Regulation (EU) 2023/1542]

3.5

battery model

version of all battery units which share the same technical characteristics relevant for the requirements on sustainability, safety, labelling, marking and information, and the same model identifier

[SOURCE: Regulation (EU) 2023/1542]

3.6

battery pack

set of battery cells or modules that are connected together or encapsulated within an outer casing to form a complete unit which is not meant to be split up or opened by the end-user

[SOURCE: Regulation (EU) 2023/1542]

3.7

battery producer

manufacturer, importer or distributor or other natural or legal person who, irrespective of the selling technique used, including by means of distance contracts, either:

(i) is established in a Member State and manufactures batteries under its own name or trademark, or has batteries designed or manufactured and supplies them for the first time under its own name or trademark, including those incorporated in appliances, light means of transport or other vehicles, within the territory of that Member State;

(ii) is established in a Member State and resells within the territory of that Member State, under its own name or trademark, batteries, including those incorporated in appliances, light means of transport or other vehicles, manufactured by others, on which the name or trademark of those other manufacturers does not appear;

(iii) is established in a Member State and supplies for the first time in that Member State on a professional basis, batteries, including those incorporated in appliances, light means of transport or other vehicles, from another Member State or from a third country; or

(iv) sells batteries, including those incorporated in appliances, light means of transport or other vehicles, by means of distance contract directly to end-users, whether or not they are private households, in a Member State, and is established in another Member State or in a third country

Note 1 to entry: Distance contracts as defined in Article 2, point (7), of Directive 2011/83/EU (definition 46 in Regulation (EU) 2023/1542.

[SOURCE: Regulation (EU) 2023/1542]

3.8

battery system

energy storage device that includes cells or cell assemblies or *battery pack(s)* (3.6) as well as electrical circuits and electronics

Note 1 to entry: Examples of electronics are the BCU and contactors.

[SOURCE: ISO 12405-4:2018, 3.3]