

Guidance Document: Digital Batteries Passport – data points by category

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Directorate G — Compliance and Responsible Business Conduct

Unit G2 — Single Market Implementation Tools

Contact: *Alexandru ION*

E-mail: *Alexandru.ION@ec.europa.eu*

European Commission

B-1049 Brussels

This guidance document aims to assist economic operators and other relevant stakeholders in preparing the implementation of the data requirements for the digital Batteries Passport. It sets out the data points to be provided for electric vehicle (EV) batteries, light means of transport (LMT) batteries and industrial batteries with a capacity greater than 2 kWh, and identifies where information is mandatory, optional, applicable only in certain cases, or does not have to be filled/displayed as of February 2027. It should be read together with the applicable provisions of Regulation (EU) 2023/1542 and any relevant delegated or implementing acts.

The document is intended to support a common understanding of the information to be made available in the Batteries Passport and to promote a consistent and workable approach across the batteries value chain by clarifying, to the extent possible, how the different data requirements may be understood in practice. In doing so, it is meant to facilitate dialogue among stakeholders, reduce unnecessary divergence in implementation approaches, and support a smooth and consistent rollout of the Batteries Passport.

By presenting the relevant data points in a structured and accessible manner, it seeks to help stakeholders identify the information that may need to be collected, assessed and made available, and to support early alignment of internal processes, data systems and reporting practices. The following table is structured around five elements: (1) the data point number, (2) the data point name, (3) the legal source of the data point in the Batteries Regulation (BR), and (4)-(6) the applicability of the data point for EV, LMT and industrial batteries respectively. The applicability columns indicate whether a data point is mandatory, optional, applicable only in certain cases, or does not have to be filled/displayed as of February 2027. BR refers to REGULATION (EU) 2023/1542 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 12 July 2023 concerning batteries and waste batteries, amending Directive 2008/98/EC and Regulation (EU) 2019/1020 and repealing Directive 2006/66/EC¹. For the purposes of this document, EV batteries, LMT batteries and industrial batteries correspond to the battery categories defined in Article 3 of the Batteries Regulation (BR).

This guidance document may be further developed over time to provide additional detail and practical clarification. In particular, future updates may include further information on the definitions of the individual data points, as well as indications on possible measuring units or formats to be used when reporting those data points, with a view to supporting greater clarity, comparability and consistency in the information made available through the Batteries Passport. This document should not be considered as representative of the European Commission's official position. The information in the text does not extend in any way the rights and obligations deriving from applicable legislation nor introduce any additional requirement. The expressed views are not authoritative

¹ [EUR-Lex - 02023R1542-20250731 - EN - EUR-Lex](#)

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Number	Data point name	Data point source	Electric vehicles (EV)	Light means of transport (LMT)	Industrial
1	Unique identifier	BR Article 77 (3)	Mandatory	Mandatory	Mandatory
2	Identity of who is registering and/or is responsible for the battery passport	BR Article 77 (3)	Mandatory	Mandatory	Mandatory
3	Manufacturer name, registered trade name or registered trademark	BR Annex VI A (1)	Mandatory	Mandatory	Mandatory
4	Manufacturer postal address, indicating a single contact point	BR Annex VI A (1)	Mandatory	Mandatory	Mandatory
5	If available, manufacturer web and email address	BR Annex VI A (1)	optional, to be filled if such data is available	optional, to be filled if such data is available	optional, to be filled if such data is available
6	Battery category	BR Annex VI A (2)	Mandatory	Mandatory	Mandatory
7	Model identification and batch or serial number, or product number or another element allowing their identification	BR Annex VI A (2)	Mandatory	Mandatory	Mandatory
8	The place of manufacturer (geographical location of a battery manufacturing plant)	BR Annex VI A (3)	Mandatory	Mandatory	Mandatory
9	The date of manufacturing (month and year)	BR Annex VI A (4)	Mandatory	Mandatory	Mandatory

Number	Data point name	Data point source	Electric vehicles (EV)	Light means of transport (LMT)	Industrial
10	The weight	BR Annex VI A (5)	Mandatory	Mandatory	Mandatory
11	The capacity	BR Annex VI A (6)	Mandatory	Mandatory	Mandatory
12	The chemistry	BR Annex VI A (7)	Mandatory	Mandatory	Mandatory
13	The hazardous substances present in the battery, other than mercury, cadmium or lead	BR Annex VI A (8)	Mandatory	Mandatory	Mandatory
14	Usable extinguishing agent	BR Annex VI A (9)	Mandatory	Mandatory	Mandatory
15	Critical raw materials present in the battery in a concentration of more than 0,1 % weight by weight	BR Annex VI A (10)	Mandatory	Mandatory	Mandatory
16	The material composition of the battery, including its chemistry, hazardous substances present in the battery, other than mercury, cadmium or lead, and critical raw materials present in the battery	BR Annex XIII 1 (b)	Not to be filled/displayed - repetition, same data already required under previous data points	Not to be filled/displayed - repetition, same data already required under previous data points	Not to be filled/displayed - repetition, same data already required under previous data points
17	The carbon footprint declaration	BR Annex XIII 1 (c)	Not to be filled/displayed as of February 2027- format still to be specified in the upcoming	Not to be filled/displayed as of February 2027- format still to be specified in the upcoming	Not to be filled/displayed as of February 2027- format still to be specified in the

Number	Data point name	Data point source	Electric vehicles (EV)	Light means of transport (LMT)	Industrial
			implementing act	implementing act	upcoming implementing act
18	The carbon footprint label	BR Annex XIII 1 (c)	Not to be filled/displayed as of February 2027- format still to be specified in the upcoming implementing act	Not to be filled/displayed as of February 2027- format still to be specified in the upcoming implementing act	Not to be filled/displayed as of February 2027- format still to be specified in the upcoming implementing act
19	Information on responsible sourcing as indicated in the report on battery due diligence policy referred to in Article 52(3)	BR Annex XIII 1 (d)	Not to be filled/displayed as of February 2027- as provided in Article 48(1), required from August 2027	Not to be filled/displayed as of February 2027- as provided in Article 48(1), required from August 2027	Not to be filled/displayed as of February 2027- as provided in Article 48(1), required from August 2027
20	Percentage share of cobalt that is present in active materials and that has been recovered from battery manufacturing waste or post-consumer waste	BR Annex XIII 1 (e)	Not to be filled/displayed as of February 2027- to be applied in line with Article 8 and the relevant delegated act	Not to be filled/displayed as of February 2027- to be applied in line with Article 8 and the relevant delegated act	Not to be filled/displayed as of February 2027- to be applied in line with Article 8 and the relevant delegated act
21	Percentage share of lithium that is present in active materials and that has been recovered from battery manufacturing waste or post-consumer waste	BR Annex XIII 1 (e)	Not to be filled/displayed as of February 2027- to be applied in line with Article 8 and the relevant delegated act	Not to be filled/displayed as of February 2027- to be applied in line with Article 8 and the relevant delegated act	Not to be filled/displayed as of February 2027- to be applied in line with Article 8 and the relevant delegated act
22	Percentage share of nickel that is present in active materials and that has been recovered from battery manufacturing	BR Annex XIII 1 (e)	Not to be filled/displayed as of February 2027- to be applied in line with Article 8 and the relevant delegated act	Not to be filled/displayed as of February 2027- to be applied in line with Article 8 and the relevant delegated act	Not to be filled/displayed as of February 2027- to be applied in line with Article 8 and the relevant delegated act

Number	Data point name	Data point source	Electric vehicles (EV)	Light means of transport (LMT)	Industrial
	waste or post-consumer waste				
23	The percentage share of lead that is present in the battery and that has been recovered from waste	BR Annex XIII 1 (e)	Not to be filled/displayed as of February 2027- to be applied in line with Article 8 and the relevant delegated act	Not to be filled/displayed as of February 2027- to be applied in line with Article 8 and the relevant delegated act	Not to be filled/displayed as of February 2027- to be applied in line with Article 8 and the relevant delegated act
24	The share of renewable content	BR Annex XIII 1 (f)	Mandatory	Mandatory	Mandatory
25	Rated capacity (in Ah)	BR Annex XIII 1 (g)	Not to be filled/displayed - repetition, same data required under data point 11	Not to be filled/displayed - repetition, same data required under data point 11	Not to be filled/displayed - repetition, same data required under data point 11
26	Minimal voltage, with temperature range when relevant	BR Annex XIII 1 (h)	Mandatory	Mandatory	Mandatory
27	Nominal voltage, with temperature range when relevant	BR Annex XIII 1 (h)	Mandatory	Mandatory	Mandatory
28	Maximum voltage, with temperature range when relevant	BR Annex XIII 1 (h)	Mandatory	Mandatory	Mandatory
29	Original power capability (in Watts)	BR Annex XIII 1 (i)	Mandatory	Mandatory	Mandatory
30	Power limits, with temperature range when relevant	BR Annex XIII 1 (i)	Mandatory	Mandatory	Mandatory
31	Expected battery lifetime	BR Annex XIII	Mandatory	Mandatory	only applicable for some

Number	Data point name	Data point source	Electric vehicles (EV)	Light means of transport (LMT)	Industrial
	expressed in cycles	1 (j)			industrial batteries where lifetime can be expressed in cycles
32	Reference test used for expected battery lifetime expressed in cycles	BR Annex XIII 1 (j)	Mandatory	Mandatory	only applicable for some industrial batteries where lifetime can be expressed in cycles
33	Capacity threshold for exhaustion	BR Annex XIII 1 (k)	Mandatory	Not to be filled/displayed	Not to be filled/displayed
34	Temperature range the battery can withstand when not in use (reference test)	BR Annex XIII 1 (l)	Mandatory	Mandatory	Mandatory
35	Period for which the commercial warranty for the calendar life applies	BR Annex XIII 1 (m)	if applicable (if commercial warranty envisaged)	if applicable (if commercial warranty envisaged)	if applicable (if commercial warranty envisaged)
36	Initial round trip energy efficiency	BR Annex XIII 1 (n)	Mandatory	Mandatory	only applicable for some industrial batteries
37	Round trip energy efficiency at 50 % of cycle-life	BR Annex XIII 1 (n)	Mandatory	Mandatory	only applicable for some industrial batteries
38	Internal battery cell and pack resistance	BR Annex XIII 1 (o)	Mandatory	Mandatory	Mandatory
39	C-rate of relevant cycle-life test	BR Annex XIII 1 (p)	Mandatory	Mandatory	only applicable for some industrial batteries
40	The marking requirements laid down in Article 13(4)	BR Annex XIII 1 (q)	Mandatory	Mandatory	Mandatory

Number	Data point name	Data point source	Electric vehicles (EV)	Light means of transport (LMT)	Industrial
41	The marking requirements laid down in Article 13(5)	BR Annex XIII 1 (q)	cadmium or lead symbol if applicable	cadmium or lead symbol if applicable	cadmium or lead symbol if applicable
42	The EU declaration of conformity referred to in Article 18	BR Annex XIII 1 (r)	Mandatory	Mandatory	Mandatory
43	The information regarding the prevention and management of waste batteries laid down in Article 74(1), points (a) to (f).	BR Annex XIII 1 (s)	Mandatory	Mandatory	Mandatory
44	Clear, understandable and readable instructions for use in a format that makes it possible to print, download and save them on an electronic device so that the user can access them at all times, in particular during a breakdown of the battery	BR Annex XIII 1 (t)	Not to be filled/displayed as of February 2027 - application provisions on hold pending Omnibus adoption	Not to be filled/displayed as of February 2027 - application provisions on hold pending Omnibus adoption	Not to be filled/displayed as of February 2027 - application provisions on hold pending Omnibus adoption
45	Detailed composition, including materials used in the cathode, anode and electrolyte	BR Annex XIII 2 (a)	Mandatory	Mandatory	Mandatory
46	Part numbers for components	BR Annex XIII 2 (b)	Mandatory	Mandatory	Mandatory
47	Contact details of sources for replacement spares	BR Annex XIII 2 (b)	Mandatory	Mandatory	Mandatory

Number	Data point name	Data point source	Electric vehicles (EV)	Light means of transport (LMT)	Industrial
48	Dismantling information, including at least: - exploded diagrams of the battery system/pack showing the location of battery cells, - disassembly sequences, - type and number of fastening techniques to be unlocked, - tools required for disassembly, - warnings if risk of damaging parts exist, - amount of cells used and layout	BR Annex XIII 2 (c)	Mandatory	Mandatory	Mandatory
49	Safety measures	BR Annex XIII 2 (d)	Mandatory	Mandatory	Mandatory
50	Results of test reports proving compliance with the requirements laid down in this Regulation or any delegated or implementing act adopted pursuant to this Regulation	BR Annex XIII 3	Mandatory	Mandatory	Mandatory
51	Rated capacity (in Ah)	BR Annex XIII 4 (a)	same as data point 11 (capacity). but now dynamic	same as data point 11 (capacity). but now dynamic	if applicable, but now dynamic
52	Capacity fade (in %)	BR Annex XIII	Mandatory	Mandatory	if applicable ²

² 'if applicable' - to take into account the applicable provisions of Regulation 2023/1542 and relevant implementing legislation and to consider if the technical parameter in question is relevant for the battery

Number	Data point name	Data point source	Electric vehicles (EV)	Light means of transport (LMT)	Industrial
		4 (a)			
53	Power (in W)	BR Annex XIII 4 (a)	Mandatory	Mandatory	if applicable
54	Power fade (in %)	BR Annex XIII 4 (a)	Mandatory	Mandatory	if applicable
55	Internal resistance (in Ω)	BR Annex XIII 4 (a)	Mandatory	Mandatory	if applicable
56	Internal resistance increase (in %)	BR Annex XIII 4 (a)	Mandatory	Mandatory	if applicable
57	Where applicable, energy round trip efficiency (in %)	BR Annex XIII 4 (a)	if applicable	if applicable	if applicable
58	Where applicable, energy round trip efficiency fade (in %)	BR Annex XIII 4 (a)	if applicable	if applicable	if applicable
59	The expected life-time of the battery under the reference conditions for which it has been designed, in terms of cycles, except for non-cycle applications	BR Annex XIII 4 (a)	Mandatory	Mandatory	if applicable
60	The expected life-time of the battery under the reference conditions for which it has been designed, in terms of calendar years	BR Annex XIII 4 (a)	Mandatory	Mandatory	if applicable

Number	Data point name	Data point source	Electric vehicles (EV)	Light means of transport (LMT)	Industrial
61	Information on the state of health of the battery pursuant to Article 14: state of certified energy (SOCE)	BR Annex XIII 4 (b)	Mandatory	Not to be filled/displayed	Not to be filled/displayed
62	Information on the state of health of the battery pursuant to Article 14: remaining capacity	BR Annex XIII 4 (b)	Not to be filled/displayed	Mandatory	if applicable
63	Information on the state of health of the battery pursuant to Article 14: where possible, the remaining power capability	BR Annex XIII 4 (b)	Not to be filled/displayed	Mandatory	if applicable
64	Information on the state of health of the battery pursuant to Article 14: where possible, the remaining round trip efficiency	BR Annex XIII 4 (b)	Not to be filled/displayed	Mandatory	if applicable
65	Information on the state of health of the battery pursuant to Article 14: [where possible,] the evolution of self-discharging rates	BR Annex XIII 4 (b)	Not to be filled/displayed	Mandatory	if applicable
66	Information on the state of health of the battery pursuant to Article 14:	BR Annex XIII 4 (b)	Not to be filled/displayed	Mandatory	if applicable

Number	Data point name	Data point source	Electric vehicles (EV)	Light means of transport (LMT)	Industrial
	where possible, the ohmic resistance				
67	Information on the status of the battery, defined as 'original', 'repurposed', 're-used', 'remanufactured' or 'waste';	BR Annex XIII 4 (c)	Mandatory	Mandatory	Mandatory
68	The number of charging and discharging cycles	BR Annex XIII 4 (d)	if applicable	if applicable	if applicable
69	Negative events, such as accidents	BR Annex XIII 4 (d)	if applicable	if applicable	if applicable
70	Periodically recorded information on the operating environmental conditions, including temperature	BR Annex XIII 4 (d)	if applicable	if applicable	if applicable
71	Periodically recorded information on the state of charge	BR Annex XIII 4 (d)	if applicable	if applicable	if applicable

