

Technical documentation

Technical documentation according Batteries Regulation 2023/1542, Annex VIII, Part A, Module A - "Internal production control", Clause 2:

a) General description of the battery and its intended use.

Lead battery filled with diluted sulphuric acid specifically designed to supply electric power for starting, lighting, or ignition and that can also be used for auxiliary or backup purposes in vehicles, other means of transport or machinery.

Technical data:

Part Number:	614375
Voltage:	V
Capacity:	Ah
Cold cranking current:	A

b) Conceptual design and manufacturing drawings and schemes of components, sub-assemblies and circuits.

- Flooded¹ / EFB²-Batteries: Lead battery with liquid electrolyte.
- AGM³ / VRLA⁴-Batteries: Valve regulated lead battery with electrolyte immobilized by absorbent glass mat.
- Series connection of six single cells in a single PP container
- Dimensions of batteries for passenger cars mainly according EN
- Dimensions of batteries for commercial vehicles mainly according EN 50342-4
- Electrical performances according EN 50342-1 / EN 50342-6

¹ Definition according EN 50342-1: Flooded or vented batteries -secondary battery having a cover provided with one or more openings through which gaseous products may escape.

² Definition according EN 50342-1: Enhanced Flooded Batteries - EFB - secondary batteries with additional special design features to significantly improve the cycling capability compared to standard flooded batteries.

³ Definition according EN 50342-1: Absorbent Glass Mat batteries- AGM - VRLA batteries in which the electrolyte is immobilized by absorption in a glass mat.

⁴ Valve Regulated Lead-Acid batteries - VRLA - valve regulated lead-acid batteries are secondary batteries which are closed under normal conditions, but which has an arrangement that allows the escape of gas if the internal pressure exceeds a predetermined value

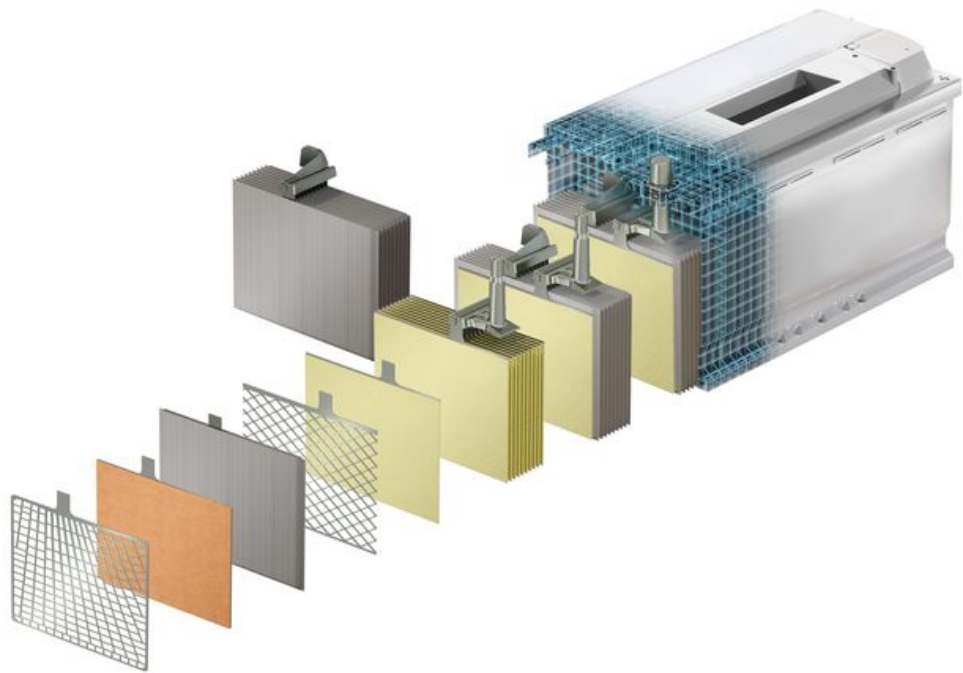


Figure 1 - Conceptual design of a typical lead battery

c) Descriptions and explanations necessary for the understanding of the drawings and schemes and the operation of the battery.

No further documentation is needed to understand drawings and schemes. For any details concerning operation of the battery refer to safety instructions and user manuals.

d) A specimen of the label required in accordance with Article 13.

Batteries are marked with the symbol for separate collection according to Annex VI Part B (defined as well in IEC 60417-6414) and with the chemical symbol "Pb" for the heavy metal Pb content according to Article 13(3)

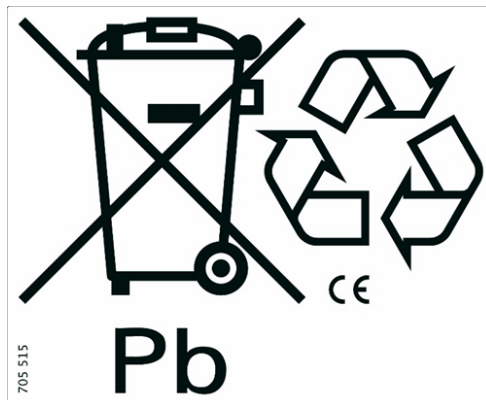


Figure 2 - Example of marking with symbol for separate collection according to Annex VI Part B and with the chemical symbol "Pb" for the heavy metal Pb content according to Article 13(3).

e) List of the harmonised standards and common specification and other relevant technical specifications used for measurement or calculation purposes.

There are no harmonized standards available. There are no measurements or calculations needed to fulfill applicable requirements according to Article 6 (Restriction on substances) and Article 13 (Labelling and marking of batteries).

f) Description of the solutions adopted to meet the applicable requirements.

a) Article 6 (Restrictions on substances)

Compliance to requirements of Annex XVII to Regulation (EC) No 1907/2006, Article 4(2), point (a), of Directive 2000/53/EC and Annex I of Batteries Regulation 2023/1542 is guaranteed by material specifications and incoming goods inspections.

b) Article 13 (Labelling and marking of batteries)

An example of the required label is shown in section d).

g) Results of design calculations made and the examinations carried out, and the technical or documentary evidence used.

There are no design calculations needed to fulfill the applicable requirements according to Article 6 (Restriction on substances) and Article 13 (Labelling and marking of batteries).

Examinations concerning restricted substances according to Article 6 are realized by incoming goods inspections.

h) the test reports

Applicable requirements according to Article 6 (Restriction on substances) are ensured by material specifications and incoming goods inspections. Applicable requirements according to Article 13 (Labelling and marking of batteries) do not require any testing.