

Technical documentation

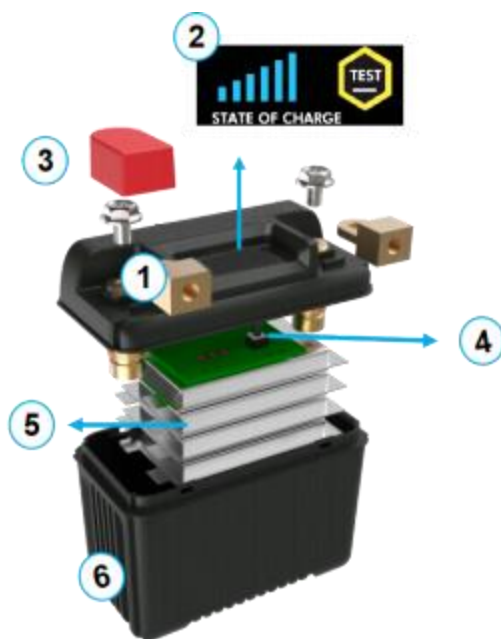
Technical documentation according to Battery Regulation 2023/1542,
Article 17, Annex VIII

1. General description and intended usage

Lithium rechargeable battery, consisting in Lithium Iron Phosphate (LiFePO₄) as cathode and Carbon (Graphite) as anode, with Lithium salts (such as LiPF₆) in an organic solution as electrolyte. It is designed to supply the intended electric power in motor vehicles for SLI (Starting, Lightning or ignition) functions and can be used for auxiliary or backup purposes in vehicles, other means of transport or machinery.

Voltage/Chemistry/Application : 12V LiFePO₄ Motorcycle

2. Conceptual design and manufacturing drawings



3. Explanations necessary for the understanding of the drawings referred to the point 2

- ① Brass terminals
- ② State of Charge Indicator
- ③ Silicon Terminal Cover
- ④ Protection Board
- ⑤ Battery pouch Cell
- ⑥ Casing

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

4. Marking specimen according to Article 13



The marking requirements are derived from:

- Article 4, Article 21 and Annex 2 of the EU Battery Directive 2006/66 and
- Article 6, Article 13 and Annex 6 of the EU Battery Regulation 2023/1542

5. List of the harmonized standards

No harmonized standards are available. Article 6 (Restriction on substance) and Article 13 (labelling and marking of batteries) compliance requirements don't need specific measurement or calculations.

6. Description of the solutions adopted to meet the applicable requirements

For the restriction on substances requirement, below comment specifications are applied to this product:

Restriction regulation	Requirement	
Restrictions set out in Annex I to Regulation (EU) 2023/1542	Designation of the substance or group of substances	Conditions of restriction
	1. Mercury CAS No 7439-97-6 EC No 231-106-7 and its compounds	Batteries, whether or not incorporated into appliances, light means of transport or other vehicles, shall not contain more than 0,0005 % of mercury (expressed as mercury metal) by weight.
	2. Cadmium CAS NO 7440-43-9 EC No 231-152-8	Portable batteries, whether or not incorporated into appliances, light means of transport or other vehicles, shall not contain more than 0,002 % of cadmium (expressed as cadmium metal) by weight.
	3. Lead CAS No 7439-92-1 EC No 231-100-4 and its compounds	1. From 18 August 2024, portable batteries, whether or not incorporated into appliances, shall not contain more than 0,01 % of lead (expressed as lead metal) by weight. 2. The restriction set out in point 1 shall not apply to portable zinc-air button cells until 18 August 2028

- ¹ Mercury content limit in ppm is 5
- ² Cadmium content limit in ppm is 20



7. Results of design calculations and the examinations carried out

NA

8. Test reports

NA