

TECHNICAL DATA SHEET



Type no.	EFB 650 17	
Article no.	012650170101	
EAN/GTIN no.	9005753097650	
Electrical data		
Rated voltage	12V	
Rated capacity	150 Ah (K20)	
Cold start current	850 A (EN)	
Dimensions and weights		
Box	A	
Length max.	513mm	
Width max.	189mm	
Box height max.	195mm	
Total height max.	220mm	
Battery weight	Ca. 38,0 kg (+/- 5 %)	
Electrolyte density	Approx. 1,28 kg/l	
Electrolyte	Diluted sulphuric acid	
Items/pallet	24	
Pallet ID	Euro pallet	
Items per layer	8	
Features		
Base hold-down	B00	
Layout	3	
Terminal	1	
Separator	PE bag separator with glass mat	
Degassing	Battery with central degassing	
Flame arrester	Integrated	
Performance identification	W4 - C2 - >V3 - E3	
Maintenance 1)		
Water consumption	W4	
Refill water	Distilled or demineralised (DIN 43530)	
Self-discharge	Approx. 3 % per month	
Charging current	Approx. 1/10 of the rated capacity	
Charging voltage 2)	max. 14,8 V	



1) All the listed values relate to room temperature +25° C
 2) Recommendation with an external, voltage-regulated charge. Attention: Temperature compensation in case of deviation!

1 Document DBTBAT00339 prepared on 2024-10-03 ; Rights relating to changes and errors retained.
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EU DECLARATION OF CONFORMITY

We hereby declare that the battery described below complies with the principles of **EU-Regulation 2023/1542** (valid from August 18, 2024) in terms of its design and construction as well as the version we have placed on the market.

Manufacturer:

Banner GmbH
Linz, Austria

General description of the battery and its intended use.

Lead battery filled with diluted sulfuric acid specifically designed to supply electric starting, lighting, or ignition and that can also be used for auxiliary or backup purposes in vehicles, other means of transport, or machinery. All items listed and offered under the product families Banner Running Bull, Power Bull, Starting Bull, Buffalo Bull, Energy Bull and Bike Bull.

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

- Flooded / EFB – Batteries: Lead battery with liquid electrolyte.
- AGM / VRLA – Batteries: Valve regulated lead acid 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 50342-2.
- Dimensions of batteries for commercial vehicles mainly according EN 50342-4.
- Electrical performances according EN 50342-1 / EN 50342-6.

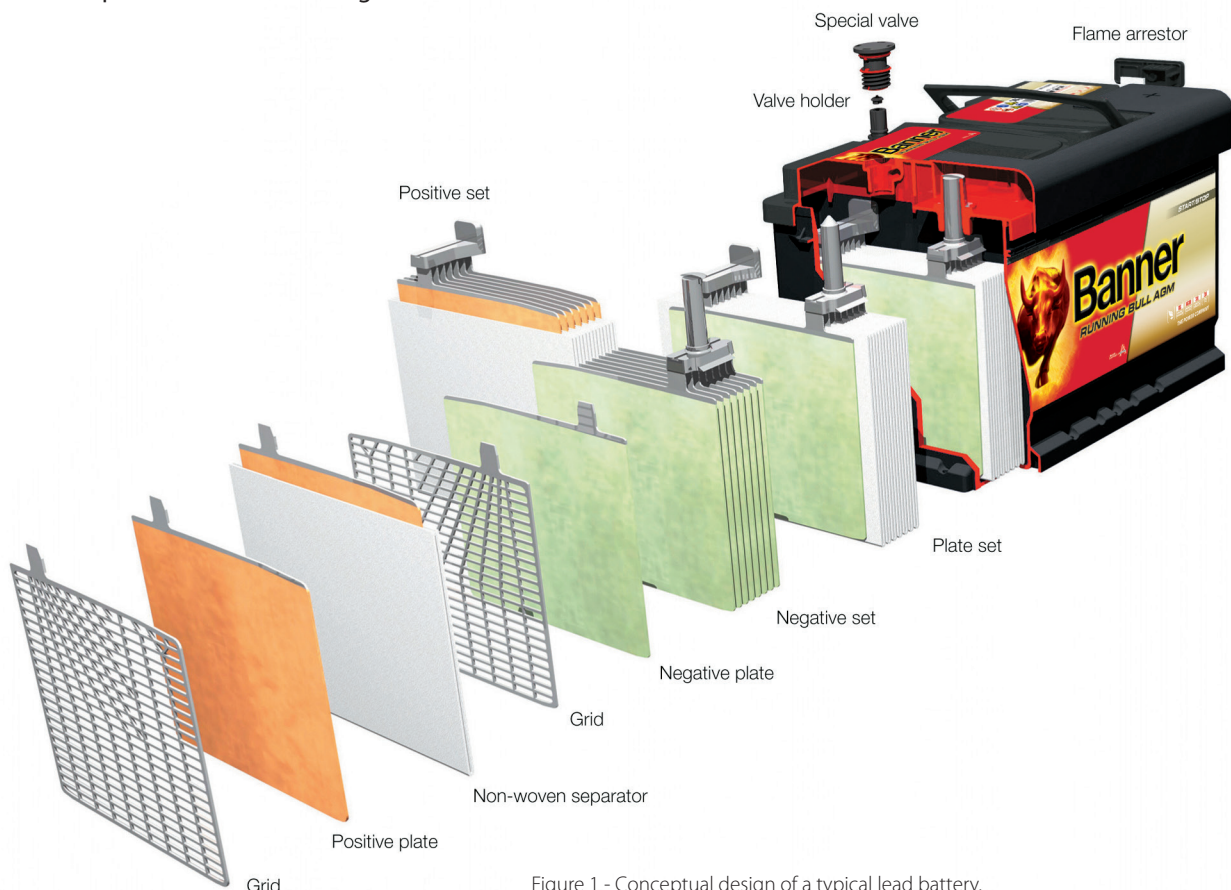


Figure 1 - Conceptual design of a typical lead battery.

EU DECLARATION OF CONFORMITY



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

Not applicable

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).

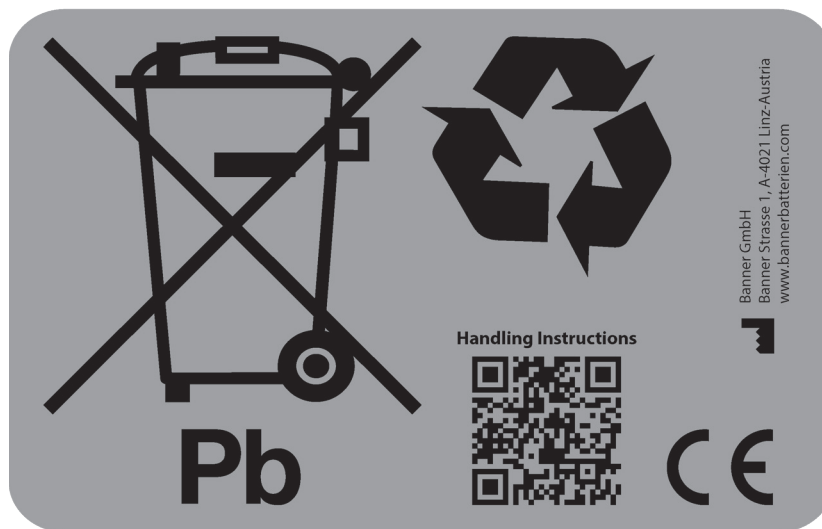


Figure 2 – Example of marking with symbol for separate collection according to Annex VI Part B and with the chemical symbol "Pb" for the heavy metal Pb content according to Article 13 (3).

List of the harmonized standards and common specifications and other relevant technical specifications used for measurement or calculation purposes.

Not applicable

Description of the solutions adopted to meet the applicable requirements.

- a) Article 6 (Restrictions on substances)
Compliance with Mercury content threshold is guaranteed by material specifications.
- b) Article 13 (Labelling and marking of batteries)
An example of the required label is shown in Figure 2.

Edition - June 2024

Banner GmbH
Thomas Bawart
Technical CEO