Marking of new national standard lead-acid batteries

What is the new battery regulation?

The EU's new battery regulation is an important step towards a more sustainable and competitive battery economy. The regulation sets new requirements for battery design, manufacture, labelling, recycling and reporting. The regulation applies to all batteries imported into or used in the EU, including portable, industrial and automotive batteries.

Do batteries need a CE marking?

Each category has specific requirements and regulations. CE Marking: Manufacturers will be requiredto affix the CE marking to batteries before placing them on the market or putting them into service,starting from August 18,2024. The CE marking indicates compliance with EU safety,health,and environmental protection requirements.

What does the lead-acid battery standardization Technology Committee do?

The lead-acid battery standardization technology committee is mainly responsible for the National standards of lead-acid batteries in different applications(GB series). It also includes all of lead-acid battery standardization,accessory standards,related equipment standards,Safety standards and environmental standards. 19.1.14.

How is standardization organized for lead-acid batteries for automotive applications?

Standardization for lead-acid batteries for automotive applications is organized by different standardization bodies on different levels. Individual regions are using their own set of documents. The main documents of different regions are presented and the procedures to publish new documents are explained.

How to test a lead-acid battery?

The charging method is another key procedure in any test specification. Most documents follow the approach that it shall be ensured that the lead-acid battery is completely charged after each single test. The goal is that the testing results are not influenced by an insufficient state-of-charge of the battery.

What are the performance parameters of a lead-acid starter battery?

Initial performance parameters are the key properties of a lead-acid starter battery. These are the total energy or capacity content and the ability to be discharged with a high current at low temperatures to start an internal combustion engine.

Several new requirements will come into force in August, including: - The manufacturer must affix the CE marking to each battery. - The manufacturer must draw up an EU declaration of conformity for each battery ...

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W hen Gaston Planté invented the lead-acid battery more than 160 years ago, he could not have fore-seen it spurring a multibillion-dol-lar industry. Despite an apparently low energy density--30 to 40% of the theoretical limit versus 90% for lithium-ion batteries (LIBs)--lead-acid batteries are made from abundant low-cost materials and nonflammable water-based electrolyte, while ...

This manual of recommended practices provides information on hazard warnings and other markings for lead-acid batteries and packaging, as well as labeling and testing requirements for acid packs, for use in the U.S. and its major trading ...

EN 60254-2:2008 - This part of IEC 60254 is applicable to lead-acid traction batteries used as power sources for electric propulsion. The object of the present standard is to specify: - the maximum external (overall) dimensions of traction battery cells, that is, the width, the height and the length; - the form of the marking of traction battery cell polarity and dimensions of ...

IEC 60095-2:2021 is applicable to lead-acid batteries used for starting, lighting and ignition of passenger cars and light vehicles with a nominal voltage of 12 V. All batteries in accordance ...

LEAD-ACID STARTER BATTERIES - Part 1: General requirements and methods of test 1 Scope This part of IEC 60095 is applicable to leadacid batteries with a nominal voltage of 12- V, used ...

Starting from 18 August 2024, manufacturers are responsible for conformity assessment, which involves obtaining an EU declaration of conformity and affixing the CE marking. The CE marking should be visibly, legibly, and indelibly affixed before the battery is placed on the market or put into service.

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