

What is the complete nomenclature for a battery?

The complete nomenclature for a battery specifies size, chemistry, terminal arrangement, and special characteristics. The same physically interchangeable cell size or battery size may have widely different characteristics; physical interchangeability is not the sole factor in substituting a battery. [1]

What identifies a battery as a certain group size?

There are four characteristics that identify a battery as a certain group size. The first is the size of the battery, and more specifically the dimensions. Batteries within a certain group size must be the same physical size (i.e., within 2mm) in order to ensure the proper fitment in a vehicle.

How are batteries classified?

Lastly, batteries are classified into group sizes by chemistry. By default, the battery is assumed to use lead chemistry with flooded technology. Designations are assigned for higher-performance variants including EFB (enhanced flooded battery) or AGM (absorbed glass mat).

What is the most common battery group classification system?

Although BCI is the most common battery group classification system in the United States, others do exist. EN and DIN are other battery group classification systems that you will sometimes see in owner's manuals or when shopping for batteries.

What is a battery designation system?

The current designation system was adopted in 1992. Battery types are designated with a letter/number sequence indicating number of cells, cell chemistry, cell shape, dimensions, and special characteristics. Certain cell designations from earlier revisions of the standard have been retained.

How does a BCI group fit a battery?

Physical Fit: Each device or vehicle is designed with a specific battery compartment size. A battery that adheres to the designated BCI group size will fit perfectly, preventing issues such as loose connections or the need for modifications. **Terminal Configuration:** BCI group sizes also dictate the position and type of battery terminals.

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Overview Button cells - coin, watch Lithium-ion batteries (rechargeable) See also Further reading External links This is a list of the sizes, shapes, and general characteristics of some common primary and secondary battery types in household, automotive and light industrial use. The complete nomenclature for a battery specifies size, chemistry, terminal arrangement, and special characteristics. The same physically interchangeable...

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The battery conversions chart can help you to cross-reference battery sizes, but it is also useful to understand the various group sizes that are designated for different ...

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