

Battery Basics





Overview

How does a battery work?

The container (battery case) is vented through vent plugs to allow the gases that form within the cells to escape. The plates in the battery are the cathodes and anodes that were discussed earlier. In figure 2-10 the negative plate group is the cathode of the individual cells and the positive plate group is the anode.

What are the parts of a battery?

There are four key parts in a battery — the cathode (positive side of the battery), the anode (negative side of the battery), a separator that prevents contact between the cathode and anode, and a chemical solution known as an electrolyte that allows the flow of electrical charge between the cathode and anode.

What do you need to know about batteries?

By now, you should have an understanding of how batteries were invented and how they work. Batteries are one method of providing electric energy to your project, and they can be incredibly useful if you need a portable power source. If you would like to more about batteries, here are some other tutorials:.

How do batteries power our lives?

Batteries power our lives by transforming energy from one type to another. Whether a traditional disposable battery (e.g., AA) or a rechargeable lithium-ion battery (used in cell phones, laptops, and cars), a battery stores chemical energy and releases electrical energy.



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A Few Basics
 Safety
 Battery Types: Deep Cycle vs. Starting
 Lead Acid Battery Types: Wet Cell vs. Gel Cell vs. Agm
 Lithium Battery Types: Lithium-Ion vs Lifepo4
 CCA, CA, Ah and RC Explained
 Battery Maintenance
 Battery Testing
 Selecting & Buying A New Battery
 Battery Life and Performance

The lead acid battery is made up of plates that contain lead, lead oxide, and other various elements used to change density, hardness, porosity, etc. A liquid or, in some cases, a gel solution called electrolyte is added to the battery, which is approximately 35% sulfuric acid and 65% water solution. This solution causes a c...

See more on batterystuff.

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