

## Berne battery testing

Battery testing ensures the reliability and safety of battery-powered devices. Whether it's a car, medical device, or smartphone, understanding a battery's condition is vital for preventing failures and optimizing performance.

There are many different battery types, each with their own advantages and disadvantages. Different industries base their selections on the specific requirements of the application. Generally, manufacturers will consider cost, energy density, cycle life, and environmental impact when selecting the appropriate battery type for a given application.

These are the traditional and most widely used batteries in internal combustion engine (ICE) vehicles. They are affordable and provide the necessary cranking power to start the engine. Absorbent Glass Mat (AGM) Batteries are a variation of lead-acid batteries that offer improved performance, especially in start-stop systems and vehicles with higher electrical loads.

NiMH batteries are used in medical devices where cost-effectiveness and environmental considerations are important. These batteries are less toxic than NiCd batteries, which makes them more environmentally friendly. They have a relatively high energy density, are cost-effective and have a relatively low self-discharge rate making them suitable for certain portable medical equipment and devices that aren't constantly in use. NiMH batteries have been used in hybrid vehicles for many years.

Alkaline batteries have a long shelf life, making them suitable for devices that may be stored for extended periods. They can often be found in many forgotten drawers in homes since they are commonly used for remote controls, flashlights, toys, etc. That said, they are also often used in single-use or disposable medical devices, like hearing aids since they are cost-effective and readily available.



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