Best buy lithium ion battery

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Regardless of whether you pop them into a wireless mouse, a toy, or a flashlight, rechargeable AA and AAA batteries almost always last longer, cost less, and result in less waste than their disposable counterparts.

Most are made in China, Japan, or South Korea and contain roughly the same components. So it was unsurprising that several models--including AAs and AAAs from EBL, AAs and AAAs from HiQuick, and AAs and AAAs from Tenergy--had nearly identical results in our tests.

All of our picks in this category have a low self-discharge rate, meaning they"ll leak minimal amounts of power once they"ve been fully charged and removed from the battery charger. They"re also rated to withstand at least 1,000 full charge and discharge cycles before wearing out for good, but realistically you"ll probably lose them long before you ever reach that number. Like all NiMH batteries, they run at a voltage of at least 1.2 V, which we confirmed in our testing. And all three models have a rated capacity of 2,800 mAh.

The biggest differences among the batteries became clearer when we tested them in real-world situations. For instance, the HiQuick batteries lasted 6 hours in a kid"s electric toothbrush, the EBL batteries lasted 6 1/2 hours, and the Tenergy Premium Pro batteries lasted 10 1/2 hours (good news for fastidious brushers). Next, our colorful party lights kept spinning and strobing for 10 1/2 hours with the EBL batteries, 11 1/2 hours with the HiQuick batteries, and 12 1/2 hours with the Tenergy Premium Pro batteries.

These variations can most likely be attributed to the fact that the power consumption of most household devices isn"t completely uniform (especially the inexpensive devices we chose for our testing), whereas we used professional-grade tools in a more-controlled setting for our other tests. Also, broadly speaking, all batteries can be affected by temperature, age, and a slew of other environmental factors.

Though we couldn"t feasibly determine how the batteries would perform years down the line, we did test how they held up to regular recharging. After draining and recharging them 50 times and then measuring the capacity, we found that all three of our picks had retained a vast majority of their juice: The EBL still had 2,215 mAh to its name (a 7% dip), the Tenergy Premium Pro had an impressive 2,724 mAh left (down 2%), and the HiQuick had a whopping 2,810 mAh remaining (also down 2%).

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