



# Examples of rechargeable batteries

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Welcome to the brand new Panasonic Eneloop AAA rechargeable batteries with improvements in performance and sustainability. These new Panasonic Eneloop rechargeable AAA batteries hold even more energy and have an improved capacity of 800mAh. This new version has up to 7% more capacity and will perform outstandingly well in demanding situations.

These new Panasonic Eneloop AAA batteries can be recharged up to 2100 times. These revolutionary low self discharge rechargeable batteries retain 70% of their charge for up to 10 years. The Panasonic Eneloop AAA rechargeable batteries are pre-charged using solar energy.

Panasonic have also introduced brand new 100% plastic free FSC(R) Mix fully recyclable cardboard packaging from responsible sources. The new packaging clearly points out all the above features including suggested uses, clear capacity and recharge times. You can even see the actual batteries through the handy window in the packs. At Buyabattery we are proud to be Official Eneloop UK Stockists and Distributors.

These AAA Li-Ion batteries are protected against common battery issues like overcharging and short-circuiting, which helps them last longer. The batteries are great for replacing regular 1.5V or 1.2V AAA batteries in many devices, providing steady power. They even work well in higher temperatures, making them more versatile than alkaline batteries.

Charging is easy with a built-in USB-C port, and you don't need extra chargers since they come with a special 1-to-4 USB-C cable that allows four AAA batteries to be charged at the same time with just one cable. These batteries are suitable for everyday electronics like toys, remote controls, and flashlights. The indicator on the positive pole of the batteries flashes while charging. As soon as the charge is complete, it lights up permanently.

**Lithium Battery Shipping:** Due to courier restrictions, this product can only be shipped within England/Wales. With this item in your cart, your shipping options will be limited to DHL. Why?

Due to the use of iron and phosphate in manufacturing, LiFePO<sub>4</sub> batteries are cheaper to make than the common Li-Ion variants. However, they offer lesser specific energy comparatively. Additionally, LiFePO<sub>4</sub> batteries are considered one of the safest types of rechargeable Lithium batteries and have a long lifespan. Nowadays they are very popular among to use with power backup systems due to their low price and safety.

In an NMC battery the cathodes typically contain large proportions of nickel, which increases the battery energy density. However, this high nickel content makes the battery highly unstable and dangerous. To make the NMC batteries more thermally stable and safe, manganese and cobalt are added. Depending on the exact chemical composition, there are several sub-types within the NMC batteries, like NMC811, NMC532

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and NMC622 etc.

When compared to other Li-ion batteries, LCO batteries offer high energy density. But it also comes with some drawbacks such as relatively shorter battery life, low thermal stability, limited specific power etc. But since they pack higher energy they are a very popular choice for applications such as smartphones, laptops and other electronic gadgets, where a low amount of power for a longer duration is needed.

The Lithium Manganese Oxide (LMO) offers faster charging and discharging capabilities along with higher stability. They can provide much higher current for shorter durations, than other types of batteries. They are even used in combination with NMC chemistry in EVs, due to their higher current capability.

Unlike the other chemistries above, where the cathode composition makes the difference, LTO batteries use a unique anode surface made of lithium and titanium oxides. These batteries exhibit excellent safety and performance under extreme temperatures but have low capacity and are relatively expensive, limiting their use at scale.

Submitted by Seema Joshi on Fri, 07/27/2018 - 17:32

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