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The term '18650' refers to the measurement of the battery's size in millimeters, in this case, 18mm x 65mm. It has a similar naming convention to other rechargeable lithium-ion batteries, such as 21700 and 16340 cells.

A host of devices use rechargeable 18650 batteries, including flashlights, laptops, power banks, and even electric cars! Here at BatteryJunction we offer a wide selection of flashlights that are powered 18650 batteries, found [here](#).

18650 cells can be charged with a smart charger. Some have a built-in USB port, with either Micro-USB or USB-C functionality. Batteries with a built-in charge port may be a valued choice for your average flashlight user because they are quick and easy to recharge. We recommend using a smart charger for those charging multiple 18650 batteries, as many allow you to check capacity and select different charge currents.

On average, it takes 4 hours to charge an 18650 battery, depending on the battery health and charger type. Avoid fully discharging 18650 batteries when you can, as this limits the ion transfer process when recharging and can reduce the overall battery capacity. Overcharging the li-ion batteries can put stress on them, causing damage long-term.

Typically, rechargeable 18650 batteries have a shelf life of 3 years with a life cycle of 300-500 charges! However, it's worth noting that factors like extreme cold or heat can negatively affect the lifespan of an 18650 cell.

You can tell based on the inclusion of PCB protection. 18650 batteries with built-in PCB protection have an electronic circuit board in the battery that monitors performance parameters, which helps to prevent issues like over-draining, overheating, and short-circuiting.



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