



# Charging profile for lithium batteries

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Always closely monitor a suggested battery/algorithm combination for at least three cycles to ensure the batteries are being properly charged. If you are not sure of how to monitor a battery charge, contact Delta-Q Technical Support for advice. For lithium batteries, see the article [Choosing an Algorithm for a Lithium Battery](#). 1.

Adhering to voltage requirements, temperature considerations, and lithium battery charging profiles are essential for safe and efficient charging of lithium batteries. Lithium-ion battery charging best practices such as monitoring temperature, avoiding overcharging & following manufacturers' recommendations can help protect batteries and ...

Unlock the secrets of charging lithium battery packs correctly for optimal performance and longevity. Expert tips and techniques revealed in our comprehensive guide.

Li-ion batteries like Expion360's have a unique charging algorithm, and most chargers have a minimum two- or three-state charging profile. For example, two-stage utilizes a bulk state and an absorption stage, whereas three-stage utilizes a bulk stage, absorption stage, and float stage.

Li-ion battery charging follows a profile designed to ensure safety and long life without compromising performance (Figure 2). If a Li-ion battery is deeply discharged (for example, to below 3 V) a small "pre-conditioning" charge of around 10% of the full-charge current is applied.

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Lithium ion (Li-ion) batteries' advantages have cemented their position as the primary power source for portable electronics, despite the one downside where designers have to limit the charging rate to avoid damaging the cell and creating a hazard. Fortunately, today's Li-ion batteries are more robust and can be charged far more rapidly using "fast charging" techniques.



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