



## 4s lifepo4 voltage

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Given the anticipated life cycle of lithium batteries, and their more or less recent emergence into applications such as we are seeing today, it might be several years before we know if 2-stage CC-CV\* or multistage makes any appreciable difference.

Genasun pre-programmed controllers for LiFePO<sub>4</sub> have a 2-stage CC-CV\* charge profile and a per cell charge voltage of ~3.55V (14.2V for a 4S battery pack) in order to minimize stress on the cells without sacrificing significant State of Charge (SOC) and improving performance and longevity of the battery. For more info, read this article.

However, on request, Genasun can also provide a multistage charge profile for LiFePO<sub>4</sub> batteries. For example, we have suggested the charge profile with the following voltages: Absorption 14.4V - Absorption time 0.5 hours - Float Voltage: 13.6V - Restart Voltage 13.2V. See the CC-CV\* and multistage graphs below.

Genasun charge controllers are off-the-shelf for 3S or 4S LiFePO<sub>4</sub> and can be programmed in the factory CC-CV\* or multistage charge profiles for any Li battery with the SKUs GV-5-Li-CV, GV-10-Li-CV, and GVB-8-Li-CV.

Blue Sky Energy controllers SC30 and SB3000i can be programmed by the user for any type of charge profile by their onboard display. The SB1524iX, SB2512iX-HV, and SB3024iL/SB3024DiL can be fully programmable when paired with an external accessory. For more info on how to program a Blue Sky Energy charge controller for a LiFePO<sub>4</sub> battery with the IPN ProRemote, read this article.

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Web: <https://sumthingtasty.co.za/contact-us/>

Email: [energystorage2000@gmail.com](mailto:energystorage2000@gmail.com)

WhatsApp: 8613816583346

