

# DIY LiFePO4 Battery Pack 14 Steps with Pictures

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I cannot be held responsible for any loss of property, damage, or loss of life if it comes to that. This tutorial was written for those who have knowledge of rechargeable lithium battery technology. Please do not attempt this if you are a novice. Stay Safe.

Place the first parallel group of cells (7 nos) in the plastic holder with the positive side up, then place the second parallel group negative side up, and then the third parallel group with the positive side up, and finally the last parallel-group negative side up. For better understanding, you can see the above picture.

BMS takes care of protecting the battery; it disconnects the battery when it is discharged, or threatens to be over-charged. The BMS also takes care of limiting the charge and discharge currents, monitors cell temperature (and curtails charge/discharge if needed), and most will balance the cells each time a full charge is done

Now you can place the battery pack inside the PVC Heat Shrink sleeve and apply hot air all around the battery pack. After few minutes, you will notice the PVC wrap shrinks to form a solid cube with your battery pack inside.

No equalize charge is required for the LiFePO4 battery. If equalize stage cannot be disabled from your charge controller, set it to 14.6V or less, so it becomes just a regular absorb charge cycle.

If you are making the battery pack for other than solar applications, then buy a good charger from Aliexpress or Amazon. The rating of the charger shall be as per the battery charging-discharging rate which is found in the datasheet. In general, a 0.5C or half of the Ah capacity charger is safe for charging the battery pack.

Hope you enjoyed reading about my project as much as I have enjoyed building it. If you're thinking about making your own I would encourage you to do so, you will learn a lot. If you have any suggestions for improvements, please comment below.



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