



Homebrew solar panels battery backup

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Under discharge in the flat part of the curve, the cells are extremely close in voltage. Below is a screenshot of my BMS app (XiaoxiangBMS, which is a super handy app. the fastest I've ever spent \$6 on the pro version of an app) showing minor discharge current and the cells are within 6 millivolts of each other. It really doesn't get much better than that.

The BMS is a JBD 8s 100A model I got from eBay that comes with bluetooth monitoring ability. It has worked flawlessly so far. I love it when technology just works. Every setting can be configured. It keeps track of every alarm event. It has temperature protection. Great BMS.

My \$100 each solar panels from Craigslist have been hooked up on and off over the last few days. I haven't seen more than 480W from the 2 of them combined but they are laying completely flat (they should be tilted towards the sun for maximum power). Overall, happy for the price. I need to get them mounted on the roof.

My DIY solar system with battery backup is commissioned! Things are functional. Things aren't located optimally. I need to get the solar panels mounted on the roof and do some tidying around the batteries/inverter. I plan on mounting some drywall above the battery cells to protect from whatever and covering up all the battery terminals. The rear of the cells are covered. The mains are covered. Some of the intermediate terminals are not.

I'm already looking on Craigslist for more solar panels, but I need to 100% finish this project before adding on to it according to my lovely wife (I am sure some of you know exactly what I'm talking about!). With that, I'll be signing off for the night. The baby is having a very hard time falling asleep tonight. Until next time!

austinsnerdythings is a way for me to give back to all the people who have posted something helpful to me over the years. I'll be documenting nerdy activities for everyone to learn!

The article discusses the benefits of adding a solar battery backup to a solar power system, whether off-grid or grid-tied. It explains that a solar battery backup can act as an emergency power supply during grid failures and can help save money by using stored solar energy during peak hours when electricity prices are higher.

While it goes without saying that you will need a high-capacity battery bank if you are planning to build an off-grid solar power system, many people forget that you can also add a battery backup to a grid-tied system.

A solar battery backup can act as an emergency power supply in the event that the grid fails, or it can simply allow you to access free and environmentally-friendly electricity during peak hours when electricity prices are



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raised.

All you need to do to create your own DIY solar battery backup is invest in one or more deep cycle solar batteries, as well as the other necessary components needed to allow those batteries to work efficiently.

If you are in an area that has an unreliable electrical grid, or you live somewhere that is susceptible to severe weather conditions, investing in a solar battery backup is one of the best decisions you can make. To help you build your own DIY solar battery backup, we are going to go over everything you will need, as well as list some common mistakes that you should try to avoid.

Adding a solar battery backup to your existing system will offer plenty of financial benefits. When your solar panels are overproducing, or you have excess solar electricity, you can store it in batteries for emergency situations and for use when net metering prices are at their highest.

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