

Can you charge lithium batteries

Do not charge lithium ion batteries below 32°F/0°C. In other words, never charge a lithium ion battery that is below freezing. Doing so even once will result in a sudden, severe, and permanent capacity loss on the order of several dozen percent or more, as well a similar and also permanent increase in internal resistance.

Furthermore, you can hook up 100 car batteries in parallel and still only get 12 volts. This is because the cell-voltage is a function of the reaction: the two chemicals that are in the cell. If you made a car battery cell the size of a grain of rice, it would be 2 volts, because the reaction is two volts.

As you can see, charging to 80% instead of 100% multiplies by 4 the amount of energy the battery will have transferred to you over its life - the only tradeoff being to compromise on how much energy you can get out of a full charge (big slices, small cake VS small slices, large cake). This also means you can use your battery for 4 times longer ...

If you add batteries in parallel (3P if you did that here) (they must all be the same voltage) the mAh ratings DO add but Vout is V for one battery. So his battery could legitimately be described as [10.8V, 1380 mAh] (at 3.6V/cell), or [12V, 1380 mAh] (at the marketing hype 4.2V/cell) OR [3.6v TO 4.2v, 4140 mAh] but NOT [12V, 3000 mAh].

\$beginngroup\$ Yes, it is dangerous to attempt to charge a deeply discharged Lithium battery. Most Lithium charger ICs measure each cell's voltage when charging begins and if the voltage is below a minimum of 2.5V to 3.0V it attempts a charge at a very low current .

"Battery" and "power bank" do not mean the same thing. A battery is a relatively simple thing, and you can find one inside any power bank. A power bank is a more complicated assembly of many components. Current can only flow one way through a battery at any given moment in time. Kind of like how water can only flow one way at a time in a pipe.

Are you sure it charges at 14.4, or perhaps it is set for 4S lithium of the 3.6V nominal type, in which case it would charge to about 17ish volts. Usually your biggest issue using a lipo charger for lead acid, is that the consumer type for electric tools and the such, will hopefully have safety mechanisms that can make it problematic to use for ...

If you want to recharge lithium batteries, get standard lithium secondary cells. In fact, you "measuring it" at 1.6V means its DEAD: A "good" battery will generally have an Open Circuit Voltage (OCV) >1.74 volts. Any battery with an OCV <1.70 (after it has been allowed to recover) is completely discharged.

it may just be that on deeply discharged packs that the initial current draw looks like a short circuit or faulty

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cell to the charger, try putting a low value resistor in series with the battery when charging the cell to start with and allow the cell voltage to rise a bit before removing the resistor and allowing normal charging to resume, many ...

LiPo batteries don't like staying at top voltage (4.2V rated, typically) "trickle charging," because this will metalize the lithium, which will kill the battery. However, it is safe to "float" a lithium polymer cell at a lower voltage -- typically somewhere between 3.9V and 4.05V, depending on the manufacturer and cell specifics.

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