



After the battery is connected to the power supply

Does plugged in AC adapter harm battery?

Hi rooney10057, Welcome to the Community, The power supply to the battery is automatically cut off once the battery is 100% charged. So even you keep the AC adapter plugged in it does not harm your battery. However to save power it's better to unplug and continue to use the system with battery once battery is fully charged.

What happens when a battery reaches 100 volts?

As soon as the battery hits 100% mark, the internal circuit disconnects the power source from sending any other current. The power circuit is designed to detect the upper limit and will cut off the power connection when it reaches the limit. So as soon as the battery is ultimately charged, it stops receiving charging energy.

Should a laptop battery be kept in a socket?

When using the laptop for casual work which doesn't heat the computer, keep the battery in the laptop socket. If you are doing intense work, which generates a lot of heat, and for a longer duration, it is best to take it out. So it's not just about the ambient temperature but also about the internal temperature.

Can a battery be charged with a charger plugged in?

In general, having the charger plugged in and the battery too (if it is removable), the battery will constantly be "charged" in the "constant voltage" mode to fight self-discharge. Many manufacturers do not hard-cut the battery when the charger is connected, so the charging voltage is always applied.

What happens if a laptop battery is left fully charged?

Also, when left fully charged, the lithium ions, intercalated in the negative electrode, cause it that electrode to slowly expand and lose cohesion. For that reason, laptop manufacturers such as Toshiba, Samsung and Sony have added a power mode that limits battery charge to 50% or 80%, if the laptop is used primarily from the AC mains.

Why does my laptop not use battery when plugged in?

The laptop uses AC adaptor when plugged in. Not battery. If you take a look at the battery icon when plugged in, you would see it goes to 100, then gets discharged to some level and charging back again. So the simple answer is that laptop does not use power from battery when plugged in. Battery gets charged and discharged. Does this kill battery?

Your RV needs a minimum of one power source in order to function and supply power to your appliances. If you are already connected to a shore power source, you do not need a battery, as long as the converter is working properly. When connected to shore power, this power will go into your RV's converter. This transforms 120-volt AC power into ...



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They use the MacBook as if it were a desktop computer - always connected to the mains power and never using the portable capability of the device. At the time of answering, Apple's advice suggested that you disconnect and deplete your laptop at least once a month. That is, do not leave your laptop connected to the power supply permanently.

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In such a situation, the charger will still draw a minimal current from the mains and the regulator will maintain a steady supply of 5 V. Since the charger is not connected to the laptop (the "load"), it will result in a waste of ...

You can leave the computer connected to power whenever convenient to do so. Leaving it plugged in will not damage the computer or the battery. Leaving it plugged in ...

Keeping your battery in a discharged state for long periods can damage its potential to charge again or charge at all fully. However, the answer to keeping your laptop plugged in isn't as...

As the voltage drops, probably around 90% of the supply voltage, a setting is triggered that tells the power system external power is gone. In less than a few thousandths of a second, it tells a ...

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Meanwhile, the power supply draws 10A (1200VA) from the AC mains. Wiring voltage drop predictably increases to 2.0 volts, so voltage at the power supply is 118V. Most likely a switching power supply pulls a skitch more current to compensate, otherwise its output voltage would sag also. No current is being drawn on safety ground, so it's not ...

The answer is: YES and NO, it depends on the situation. Having a battery fully charged and the laptop plugged in is not harmful, because as soon as the charge level reaches 100% the battery stops receiving charging energy and this energy is bypassed directly to the power supply system of ...

However, you should NOT unplug the battery when fully charged. Every time you unplug the power and use it on battery, you degrade the battery; they are only good for a ...

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For that reason, you might intentionally discharge the battery halfway and remove it, to extend its life, but the disadvantage is that it no longer functions as a UPS. A ...

However, you should NOT unplug the battery when fully charged. Every time you unplug the power and use it on battery, you degrade the battery; they are only good for a finite number of charges. In addition, if you use it on battery at your desk, and then need to go portable, you might not have much use time left.

I'm using my laptop at home with battery removed and only connected to the AC power. However I'm lacking the mobility as my power cord is kinda short. Is it safe from electrical point of view to plug in the battery while the laptop is connected to AC and disconnect the AC power afterwards?

Keeping your battery in a discharged state for long periods can damage its potential to charge again or charge at all fully. However, the answer to keeping your laptop ...

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