

# Can I use a power supply instead of a battery

Can I use a DC power supply instead of a battery?

This toy just sits on the desk, so it's a good candidate to modify to accept a DC power supply instead of batteries. This idea is not well suited to something like an R.C. Car, but in a pinch, you can use it on the remote control for your TV. Wall outlet power is generally alternating current, or 'AC'.

Should you replace batteries with a power supply?

Check the polarity of your batteries and power supply to ensure they match. There will be more on this in a later step. Before replacing batteries with a power supply, consider where the device or toy is used. Will it be sitting on a desk or near the bathtub? Would your kids put it in the bathtub?

Can you use a battery charger as a power supply?

To wrap up, it is possible to use a battery charger as a power supply but with some disadvantages. If you want to use one as another, you should first check the voltage and regulation to make sure they are compatible. Also, you may need to change the polarity depending on the device you are using it with.

What is the difference between a battery charger and a power supply?

A computer power supply, for example, usually supplies DC voltage in the range of 12V to 24V, while most rechargeable battery chargers provide DC current within 13.0 V to 15.0 V (some can go as high as 19.0VDC).  
- Regulation: A power supply has active voltage regulation; thus, the output voltage is steady despite of its input fluctuation.

Can a 6 volt power supply connect to a 3 volt circuit?

Unfortunately, just a 6 V supply won't do it. You really need a 3 V supply. Or, you can get two 3 V supplies and connect the + of one to the - of the other. That common connection will be the ground of your circuit. The remaining + and - ends are the +3 V and -3 V ends. The latter is probably easier to source.

What happens if you replace a battery with a DC power supply?

If I replace my batteries with a power supply of equal voltage, then the current in the system also stays the same. This project uses this relationship to replace Voltage, V supplied by a battery with voltage supplied by a DC power supply - nothing else is changed.

Batteries are direct current "DC" and only push the current in one direction. An AC to DC power supply can change AC wall power to DC power. Many common devices that have batteries (laptops, smart phones, etc) only accept DC ...

If you are tired of replacing batteries in your portable radio or in any other battery-powered device, using an AC power adapter is a good alternative. All you need to do is to determine the voltage (V) and current (mAh)



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of the device. Then, attach the appropriate adapter to the place where the batteries make contact inside the device.

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1. Can I use a 65W charger instead of a 45W charger? Yes, you can use a 65W charger instead of a 45W charger. However, it is important to ensure that the voltage and polarity of the chargers are compatible with your device. Some devices may require specific wattage, while others may accept a range of wattages. It is always recommended to check ...

Using a power supply instead of a dedicated battery charger can introduce several risks, including overcharging, inadequate voltage regulation, lack of charge termination, and potential damage to the battery.

If you don't want to use a battery but just plug into the wall, then the easiest path would probably be to buy a 12V power supply. Something like a laptop computer power supply, but with the ...

While a high power battery charger might be used as a power supply in certain low-power and non-critical applications, it is not recommended due to potential risks and limitations. Dedicated power supplies are specifically designed to provide stable and reliable power, making them the preferred choice for powering electronic devices. At

How can I take a 9V battery plus a snap adapter and create a power supply that would be equivalent to the DC power adapter? Do I need to add a 6 Ohm resistor in the loop to ensure that  $I = V/R$  or is that too simple?

Some chargers are designed to charge batteries, while other chargers can be used as a power supply for your device. We'll discuss what you should look for in a battery charger before purchasing one so that you know exactly what it is capable of doing.

To do this I need to control the PV voltage and amperage inputs to my Smart Solar 150/45 controller wired to a 48V battery bank. I will do this by removing the PV Panel connections and using the Power Supply instead. Testing output from the Bench Power Supply will range from 60-75V and 0-33A, not to exceed 1200W total output power. Are there any risks to the charge ...

A power supply converts AC to DC voltage to power devices, while a battery charger does the same but with

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the added capability to replenish a battery's charge. Understanding the nuances between them is essential for optimal performance and longevity of your equipment.

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How to use a laptop without a battery. To start, make sure to use the power adapter that came with the device. Without the battery, the power supply needs to work as the manufacturer intended. Any ...

Even if I remove the battery, and just use the power supply ? - user4444. Commented Dec 7, 2009 at 13:26. 2. even then, i would NOT do it. - Molly7244. Commented Dec 7, 2009 at 13:31. 2. sorry to say but power supplies are DYNAMIC. If the device draws less power than the charger's output the charger will produce what the device needs. that's why ...

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