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How long will 100 battery last

Something went wrong. Wait a moment and try again. Wondering how and where to recycle old batteries? There isn't necessarily an easy answer to this question, but it's definitely one worth exploring. Learn more about which batteries you can recycle and which ones are best tossed in the garbage can. **Battery Materials and Recycling Facts** Batteries used to be made from extremely harmful materials, including mercury, that could pose major problems if dumped en masse into landfills. However, since the mid-1990s, batteries have been made with less harmful alkaline materials. This means it isn't quite as big a deal to throw batteries in the trash. Still, it's a good idea to recycle what you can rather than leaving things to sit in landfills. There isn't a nationwide battery recycling program in the United States, but your local city or county may have programs in place that make it easier to recycle small batteries that are commonly used in appliances and other household items. **Common Household Batteries: Recycle or Trash?** Anyone wondering, "how do I recycle batteries?" should take a step back and think about what type of batteries they're trying to recycle. Are they rechargeable or non-rechargeable? With small household batteries, that difference is important. Non-rechargeable batteries usually don't have much to offer recyclers in terms of reusable materials, so it usually isn't seen as worth the cost and effort to process. That means it's most efficient to put these batteries into trash cans rather than recycling bins, though specific rules on this may vary depending on where you live. The story is different for rechargeable batteries. **Recycling Rechargeable Batteries** Rechargeable batteries use different materials than non-rechargeable batteries, and that means they can do more harm to the environment if they end up in landfills. Heavy metal materials like lithium, cadmium, lead and nickel can work their way into ecosystems if they are allowed to leach into landfills. If you have rechargeable batteries that you no longer need, you should look into recycling options in your area. Some businesses may take them, or you may be able to dispose of them at local hazardous waste disposal events. **Why Rechargeable Batteries Are a Better Alternative** Though they are more likely to contain harmful materials, rechargeable batteries are still generally the better option for eco-conscious consumers. The fact that you can reuse them over and over means less packaging and less waste going to landfills. **Recycling Car Batteries** Though they're large, car batteries are actually one of the easiest types of batteries to recycle. They're among the most recycled items in the United States, and most new car batteries actually include a large quantity of recycled materials. If you're wondering, "where can I recycle used car batteries?" the answer is actually pretty simple. The auto parts store where you buy your replacement battery may take your old battery for free. You could also try to sell old car batteries to a scrap yard for a small profit. **MORE FROM QUESTIONSANSWERED.NET** Lead-acid and lithium 100 Amp-Hour batteries are commonly used in automotive, marine, industrial, and off-the-grid applications as starting, dual-purpose and very often, as deep-cycle batteries. Since they commonly used in many critical systems (medical, security, etc.) many people wonder how long can a 100Ah battery last under a certain load. **Published: December 8, 2020. Number of Cycles vs. Discharge Time** When people wonder how long will a 100Ah battery last, generally they want to know for how many minutes or hours is a certain battery able to provide power to a specific load. However, sometimes people also want to know how many charging/discharging cycles can 100Ah battery last with its capacity not dropping below a certain level. If you wonder about a number of cycles, then: - Lithium 100 Ah batteries are able to withstand 2000-7000 charging/discharging cycles when being discharged at 0.1-0.3C rates down to 100-50% DoD. - Lead-acid 100 Ah batteries are able to withstand 200-900 charging/discharging cycles when being discharged at 0.05-0.2C rates down to 100-50% DoD. So, if you are looking for a 12V 100Ah battery that will cycle a lot, go for good Lithium Iron Phosphate (LiFePO4) battery. When compared with the lead-acid batteries, lithium batteries are also lighter, can accept charge faster (model dependent), must be charged using dedicated lithium battery chargers, and also feature Battery Management Systems that protect the batteries from unwanted events like over-temperature, over-discharge, over-current, over-voltage and similar. **Note:** If the lithium battery doesn't come with a reliable BMS, don't buy it no matter how its price may sound acceptable - if mistreated, even Lithium Iron Phosphate battery can overheat, catch fire, or even explode. **On the other hand, if you are looking for a 12V 100Ah battery that will not cycle a lot, but the price is important, go for a good Absorbent Glass Mat (AGM) or Gel-Cell battery.** 100 Ah Batteries Discharge Time The nominal capacity of the lead-acid batteries is given for the 20h discharge - 100 Ah lead-acid battery is able to provide 5 Amps for 20 hours. The nominal capacity of the lithium batteries is given usually when the battery is being discharged for 1-5 hours (1h – 1C, 2h – 0.5C, 5h – 0.2C, etc.). When the lead-acid batteries are being discharged with stronger currents, they feature a capacity loss. For example, a very popular, general-purpose/deep cycle Universal Power Group UB121000 AGM Deep Cycle Battery features 20h capacity of ~100Ah and 1h capacity of ~54 Ah. **Note:** actual capacity also depends on the battery temperature and acceptable end voltage. **On the other hand, the premium dual-purpose Odyssey 31M-PC2150 AGM Marine Dual Purpose Battery features a 20h capacity of ~100 Ah and 1h capacity of ~71 Ah.** This 17Ah capacity difference is significant, but also is the price difference between these two batteries. Lithium 12V 100Ah batteries don't suffer from such drastic capacity loss when the discharge current is increased, but they have their maximum continuous currents limited electronically and is usually around 80-100 Amps, with the maximum surge currents around 150-200 Amps for 3-5 seconds (model dependent). For example, AIMS LFP12V100AB is a 12V 100Ah Lithium Iron Phosphate battery with modern BMS featuring a Bluetooth module for remote monitoring and control. When AIMS LFP12V100AB and Odyssey 31-PC2150 are discharged for two hours, the AIMS LFP12V100AB battery is able to provide 50 Amps constantly (~1200 Wh, 100Ah), while Odyssey 31-PC2150 is able to provide 39.0 Amps (~922 Wh, 78Ah) constantly, down to 10.05 volts. **General-purpose lead-acid batteries perform even worse.** However, if you think that the time of lead-acid batteries is over, wait till you see the price of such batteries :) **Reserve Capacity (RC) of the 12V 100Ah Batteries** Reserve Capacity (RC) is the value in minutes that a battery is able to provide 25 Amps constantly without the voltage dropping below a certain safe voltage (10.5 volts for lead-acid batteries, cutoff voltage for lithium batteries). Reserve Capacity of the 12V 100Ah general-purpose lead-acid batteries is usually around 170-190 minutes and between 190-220 minutes for premium lead-acid batteries. Reserve Capacity of the 12V 100Ah deep-cycle lithium batteries is usually around 240 minutes - these batteries are able to provide 25 Amps for 4 hours. 12V 100Ah Batteries as the Power Inverter Batteries 12V 100Ah batteries are often used as power inverter batteries. If they are used to power, for example, 1000W power inverters with 85% efficiency, such batteries are required to provide ~1180 watts constantly. In that case: - UPG UB121000 is able to power such inverter for almost 30 minutes, - Odyssey 31-PC2150 battery is able to power such inverter for 36-38 minutes, - AIMS LFP12V100AB battery is able to power such inverter for almost 1 hour (60 minutes). 1000W power inverters are able to provide power for various home appliances in the case of emergencies and are very popular in off-the-grid applications. Also, most of the 1000W power inverters feature surge power in the 1500-2000W range, requiring even more power from the batteries - if you opt for the lithium battery, be sure to also check the surge current rating of the battery. When required power is decreased, the actual differences between these batteries are not as big. For example, if the batteries are required to provide ~350 watts (300W inverter with 85% efficiency), then: - UPG UB121000 is able to power such inverter for ~2 hours easily, - Odyssey 31-PC2150 battery is able to power such inverter for ~2h 20 min - 2h 30 min, even more since Odyssey 31-PC2150 battery recovers very well from deep discharges (just don't abuse that too often!), - AIMS LFP12V100AB battery is able to power such inverter for almost 3 hours and 40 minutes. **Note:** one of the very important features of lithium batteries is that they keep their output voltage very constant and close to their nominal voltage of 12.8 volts. Of course, these three batteries are used just as an example - there are many other batteries on the market having similar features, so be sure to choose according to your own needs and preferences. **Long Story Short:** In order to accurately determine how long can your 12V 100Ah battery last, you have to check constant power and constant current discharge charts and/or graphs of the battery model that you have and compare them with your intended use and required power/current. Also, don't forget that in order to get as accurate time as possible, you have to include battery temperature, age, number of cycles, etc. And in the end, be sure to have some energy/power left for emergencies, just in case. **Note:** whatever you do, stay safe - 12V 100Ah batteries commonly belong to the BCI 27 and BCI 31 battery groups, they are able to store plenty of energy and can provide very strong bursts of electricity ... not something to play with ...

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