

# Lead acid generator voltage chart

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Just like any other battery type, lead acid batteries have different voltages at various stages of charge. For instance, a 12V sealed lead acid battery has a voltage of 12.89V at 100% charge, while 11.63V indicates it is at 0% charge. The good news is that you can refer to a lead acid battery voltage chart to find the specific battery voltage (6V, 12V, 24V, 48V, etc.) corresponding to the state of charge (SOC). Using this chart will help you determine the percentage of charge remaining, essentially how much more juice is left in your lead acid battery based on its current voltage reading.

Lead acid battery voltage curves vary depending on factors such as battery type, temperature, and discharge rate. While there are available voltage charts that you can find online or get at your local battery store, it is always best to refer to the lead acid battery voltage chart provided in the manual that comes along with the battery you are using/going to use.

Speaking of battery type, lead acid batteries come in two types: flooded/wet lead acid batteries and sealed lead acid (SLA)/valve-regulated lead acid (VRLA) batteries. Flood lead acid batteries are cheaper although they require more maintenance and proper ventilation. Sealed lead ones SLA/VRLA batteries on the other hand require less maintenance and ventilation, not to mention it is leak-proof and can withstand changing climates better than the flooded variant.

Lead acid batteries are commonly used in various applications, including renewable energy systems like solar power, backup power supplies such as uninterruptible power supplies (UPS), and automobiles for starting and ignition power. For optimal performance in these applications, referring to a lead acid battery voltage chart can help users monitor and maintain their battery's state of charge effectively.

Also, two important things you need to take note of before you proceed: One, when estimating the state of charge, it should be done at room temperature and the battery is at rest for at least half an hour. Second, lead batteries have a depth of discharge (DOD) of approximately 50%. This means that only about 50% of the full capacity of a lead acid battery can be extracted and utilized.

12V lead acid batteries are commonly used in rechargeable solar power systems like Nature's Generator Gold System and Nature's Generator Elite Gold System. These portable solar generators make use of 12V AGM-sealed lead acid batteries and each comes with a front LCD display that shows the battery level so you'll know when it's time for a recharge.

Going back to the chart above, it shows that a 12V sealed lead acid battery is in its fully charged state at 12.89 volts and that it is in a fully discharged state at 12.23 volts (assuming 50% max DOD). This shows a 0.66 volt difference between 100% and 0% charge.

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A 12V flooded lead acid battery on the other hand is in a fully charged state at 12.64 volts and it is in a fully discharged state at 12.07 volts (assuming 50% max DOD). As you can see, there's a 0.57 difference between 100% and 0% charge.

A 24V lead acid battery is another commonly used battery option for solar power systems particularly, those that provide bigger power capacity.

A 24V sealed lead acid battery is in its fully charged state at 25.77 volts and it is in a fully discharged state at 24.45 volts (assuming 50% max DOD). This is a full 1.32 volts difference between 100% and 0% charge.

Typically used by telecom companies for their backup power supply, a 48V lead acid battery is also utilized in high-capacity solar-powered generators like Nature's Generator Powerhouse. To ensure optimal performance, consulting a lead acid battery voltage chart can help users monitor the state of charge and manage their battery systems effectively.

Based on the chart above, a 48V sealed lead acid battery is in its fully charged state at 52.00 volts and that it is in a fully discharged state at 48.20 volts (assuming 50% max DOD). This gives us a 3.80 volt difference between 100% and 0% charge.

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