



12 volt golf cart batteries

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According to US Battery, golf carts demand 48-volts of battery power to operate. Since batteries come in 6, 8, and 12-volts, vehicle owners may think that purchasing four 12-volt units instead of eight 6-volt's is cheaper because it has a lower upfront cost. But, is this the best approach?

There are multiple factors to consider before making your decision. And in this post, we are unpacking the 6 vs 8 vs 12-volt golf cart batteries. Our aim of determining which is the best option in the long term?

One of the advantages of 6-volt batteries is their run time. In a study conducted by US Battery. They found that a 6-volt battery was able to run for 154 minutes at 56 amps. As a result, these batteries offer a longer range at this rate than the 8 and 12-volts provide.

Considering that your golf cart likely requires 48-volts to run, it means that you need to budget for eight 6-volt batteries. This is why 6-volts carry a higher upfront cost and demand more time for installation.

Since you need eight 6-volt batteries to power your cart, these have a higher cost than the other units we are looking at. US Battery found that 6-volt batteries on average, are 1.23 times more expensive than a 12-volt battery.

8-volt batteries have a higher depth of discharge percentage than 6-volt units, which means they will require more charges during their lifespan. Resulting in a shorter lifespan than a 6-volt unit. On average, an 8-volt pack will discharge by 44% if running for 80 minutes.

If your battery requires 48-volts to operate, then you will need to budget for six 8-volt packs. As a result, it means that you need to purchase fewer packs of 8-volt batteries compared to the 6-volt products. This reduces the installation time required to install all the units and adds less weight to your golf cart.

8-volt batteries carry a lower upfront cost than the 6-volt alternatives. But, they will require a bigger budget than if you were going for the 12-volt packs. The 8-volt units are .24 times more affordable than the cost of 6-volt batteries. However, they will set you back .13 more than the price of a 12-volt pack.

Out of the three batteries we have examined, the 12-volt golf cart batteries provide the shortest running minutes at 56 amps. These batteries can only deliver 110 minutes at that rate. Which is 54 minutes less than the 6-volt batteries deliver.

12-volt battery provides the least impressive depth of discharge between the other three battery types. The DOD at 80 minutes reaches 48%, which is almost at the recommended limit of deep-cycle flooded batteries. The DOD of these packs is 13% higher than the 6-volt units.



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Based on the higher depth of discharge. It requires the 12-volt batteries to undergo more charge cycles in their lifetime. That will ultimately lead to a reduced life span in comparison to 6-volt batteries.

The starting costs of a 12-volt battery are the lowest out of all the batteries, simply because you only need to purchase four compared to six or eight units. These products are .37 times more affordable than a 6-volt battery and .13 times lower than an 8-volt battery.

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Web: <https://sumthingtasty.co.za/contact-us/>

Email: energystorage2000@gmail.com

WhatsApp: 8613816583346

