

Gel Batteries for Solar Guide

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GEL batteries have the main advantage that they don't need maintenance, in addition to not emitting gases and a great durability. They stand out for their great durability. As they do not carry liquids inside, they are very suitable for solar installations in places that move frequently such as caravans, motorhomes, boats, etc.

It does not require maintenance and its use is ideal for refrigerator, water pumps, washing machine .. that is to say, apparatuses that have motor, since it supports very well the starting peaks of these apparatuses without this affecting its useful life. Being sealed, they are highly recommended for interiors of homes, boats or motor homes, because they do not emit any type of gas.

No leakage: Even if the wet battery is sealed in a plastic box, there is still a possibility of leakage. Gel batteries are also sealed, but there is a valve to eliminate excess pressure. This means that there is nowhere for the mixture to go between the gel mass and the pressure relief.

Install them anywhere: The advantage of gel batteries is that they can be used almost anywhere, because they will not leak and generally require no maintenance. This greatly increases the number of applications available for gel batteries.

Minimal risk: When the traditional lead-acid battery is damaged, you will face a large-scale dangerous cleanup (not to mention the impact on the battery acid that may be exposed in the process). If the casing is damaged, the gel battery will not leak, thus reducing the risk of injury to the device and eliminating the danger.

Anti-vibration: One of the biggest complaints of wet batteries is that they are very susceptible to extreme vibration and other shocks. Gel batteries absorb shock and vibration, making them excellent batteries for four-wheeled vehicles and other items.

Smokeless: Because these batteries are composed of gel material, they produce very little smoke during use. This means that the need for ventilation is reduced, which increases the potential uses for gel batteries and makes them easier to charge anywhere.

Discharge resistance: When using a wet battery, please do not discharge the battery too much. This is very important. Otherwise, it will never be able to charge. Gel batteries are not like that. They are deep-cycle batteries, which means they can discharge more and still be charged like new batteries.

Price: Although the benefits of gel batteries are obvious, so are the price tags. Many people want to switch from wet batteries to gel batteries, which is the biggest disadvantage.

The challenge of charging: When charging a gel battery, you need to plan to give it more time. The charging

cycle of these batteries is very slow, but you cannot leave it and leave it. Because it is a gel and not a liquid, it needs to be removed from the charger immediately after completion. Leaving it on may cause electrolyte voids, which is irreversible damage.

Thermal control: This is indeed a disadvantage for most batteries, and gel batteries are no exception. Heat is one of the fastest ways to shorten battery life. By controlling the battery's exposure to heat, you can extend its life and keep the battery running like a new battery.

When it comes to solar batteries, many experts will debate the merits of gel batteries and AGM batteries. No two solar installations are identical, and factors such as climate and discharge demands can have a big impact on what type of batteries you need. However, we believe that gel batteries provide a number of benefits to solar users for long term energy storage.

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