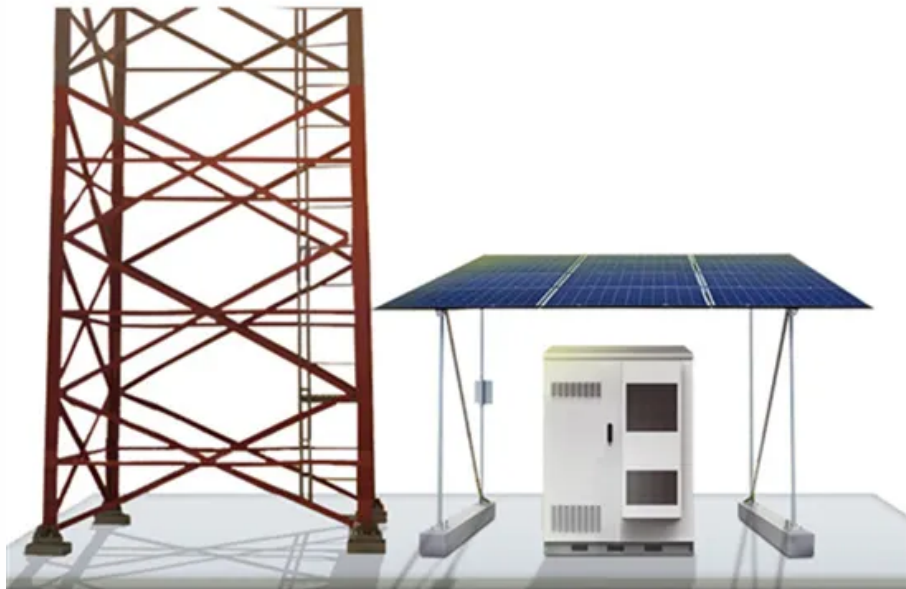


## Solar Storage Container Solutions

# Do GEL batteries require an inverter



## Overview

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What is a gel battery?

Gel batteries are a type of rechargeable battery that uses an electrolyte in gel form instead of liquid. This gel is composed of sulfuric acid, water and silica, and is thicker than the liquid electrolyte used in conventional lead-acid batteries. The gel acts as a medium to transport electrical charges between the battery's electrodes.

Can a gel battery be used on a solar system?

Gel batteries, like AGM batteries, can be particularly useful for small, off-grid solar systems. For example, a remote cabin with low energy demand and a small system on the roof may be the perfect candidate for a gel or AGM battery bank.

Why should you choose a gel battery?

Gel batteries are sealed and airtight, significantly reducing the risk of corrosive acid leaks. This makes them safer and easier to handle, without the need for regular maintenance, such as adding distilled water, which is common with conventional lead-acid batteries. No maintenance reduces costs over the life of the battery. 3. Vibration resistant.

Do gel batteries need to be charged?

Gel batteries do need to be charged, but only with appropriate chargers such as the Optimate. Using normal chargers can damage the gel battery. (Charging current max. 1 A).

Are gel batteries safe?

Because they are “sealed,” gel batteries don’t need their water levels checked and monitored like standard lead-acid options, nor do they expel gas. These factors generally make gel batteries safer than traditional lead-acid options, as they’re more of a “set it and forget it” product.

## Do inverters need batteries?

Batteries form a vital part of inverters as an inverter's life, and its functioning depends on them. An inverter converts the DC drawn from batteries into AC. Apart from portable inverters that come with a built-in battery, batteries are generally sold separately. As such, one needs to buy and install batteries separately.

## Do GEL batteries require an inverter



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