

Citaro solid state battery

Which eCitaro bus has solid-state batteries?

The new eCitaro G is the first city bus in its category anywhere in the world to be equipped with solid-state batteries. These lithium-polymer batteries are also part of the lithium-ion group of batteries. Because they contain electrolyte in its solid form as a polymer instead of the usual liquid, they are known as solid-state batteries.

Does Daimler eCitaro have solid-state batteries?

Daimler unveiled an update to its eCitaro, the electric version of its best-selling Citaro city bus, and the update includes the solid-state version of the bus: the eCitaro G. The version was first announced in 2018, making it one of the earliest announced implementations of solid-state batteries in a vehicle.

How much does a Mercedes-Benz Citaro battery weigh?

The vehicle in question is a Mercedes-Benz Citaro bus that's had five solid-state batteries weighing roughly 1,100 lbs (500 kg) each mounted on its roof. That sounds extremely counter-intuitive and seems to go against everything we've come to know about EVs in the relatively short time they've been around.

How many batteries does the eCitaro use?

A tailor-made battery for your eCitaro. Choose from a variety of battery configurations depending on your required usage profile. The eCitaro and the eCitaro K use a minimum of four and a maximum of six battery packs with a combined capacity of up to 588 kWh.

What is a solid-state battery?

Solid-state batteries are characterised by their extremely high energy density, which is around 25 percent greater than in the coming generation of traditional lithium-ion batteries with liquid electrolyte. Each battery assembly in the eCitaro and eCitaro G has an energy content of 63 kWh.

What battery does Mercedes-Benz eCitaro use?

Since its world premiere in 2018, the eCitaro has been powered by lithium-ion batteries. Mercedes-Benz uses lithium nickel manganese cobalt oxide cells, or NMC for short.

The advantage of solid-state batteries lay in their ability to offer high amount of energy storage for the bus. However, recent advancements in NMC battery technology have ...

The new eCitaro G articulated electric bus, Daimler claims, is the first series production city bus in its category anywhere in the world to be equipped with solid-state batteries.

Mercedes-Benz is faster: the new eCitaro G is the first series production city bus in its category anywhere in the world to be equipped with solid-state batteries. They have a very high energy density which is around 25

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The solid-state batteries favor a greater maximum range and get better longevity, but they do have one downside: low charging speed. The Mercedes-Benz eCitaro can only ...

Mercedes-Benz has handed over one eCitaro G electric articulated bus with solid-state batteries each to Hamburger Hochbahn and Verkehrsbetriebe Hamburg-Holstein.

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The new electric bus is equipped with solid-state batteries which offer high energy density for increased power and longer life.

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New: solid-state batteries - a pioneering achievement in automotive construction The new eCitaro G is the first city bus in its category anywhere in the world to be equipped with solid-state ...

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