

# Ecitaro solid state battery





## Overview

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Solid-state batteries: with high energy density, environmentally friendly and long-lasting As an alternative Mercedes-Benz is offering the new powerful second generation of fast-charging NMC batteries Applause, please, for the new all-electric Mercedes-Benz articulated bus eCitaro G. It is.

The Mercedes eCitaro has witnessed during time a significant shift in battery technology. In the early stages of its development, the vehicle could be equipped with two battery options: NMC (Nickel Manganese Cobalt) sourced from Akasol (later taken over by BorgWarner) and solid-state batteries.

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.



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 percent greater than the coming generation of traditional lithium-ion batteries.

In Germany, Bremer Straßenbahn AG (BSAG) has ordered five Mercedes-Benz eCitaro with solid-state batteries to arrive in early 2022. The scope of supply also includes five permanently installed charging systems, each with an output of 150 kW, as well as three mobile workshop chargers of 40 kW each. Does Daimler eCitaro G have a solid-state battery?

Daimler announced the launch of its 18m articulated Mercedes-Benz eCitaro G electric bus, which besides the standard NMC batteries, will optionally be available with a solid-state battery. The German manufacturer does not reveal much about its newest battery option, above what was said earlier this year.

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.

How many kW can a eCitaro battery charge?

The batteries also have a uniform charging capacity of 300 kW when charging via pantograph and 150 kW when charging via CCS2 plug in the depot. The eCitaro solo bus has a reliable range of up to 500 kilometres and the eCitaro G up to 400 kilometres when equipped with the maximum configuration of batteries and hydrogen tanks.

How long does a solid-state battery last?

The solid-state battery system should last for thousands of cycles and hundreds of thousands of miles. Daimler announced the launch of its 18m articulated Mercedes-Benz eCitaro G electric bus, which besides the standard NMC batteries, will optionally be available with a solid-state battery.

What battery does the Mercedes-Benz eCitaro use?

More energy for your regular services. Lasts longer and keeps your eCitaro on its route: the new NMC3 battery. NMC3 is a new generation of high-performance batteries for the Mercedes-Benz eCitaro. The new power packs



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Are solid-state batteries better than Ev batteries?

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 charge at a maximum rate of 88 kW, which is way lower than the 350 kW that some EVs accept these days.



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### New Mercedes-Benz eCitaro G with innovative solid-state batteries

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### Mercedes launches solid-state ECitaro battery, years ...

Daimler, however, has shocked the industry by announcing in September 2020 that it would offer a solid-state battery option on its eCitaro G passenger bus - the first of its kind.



### [Mercedes eCitaro with solid-state batteries in Bremen](#)

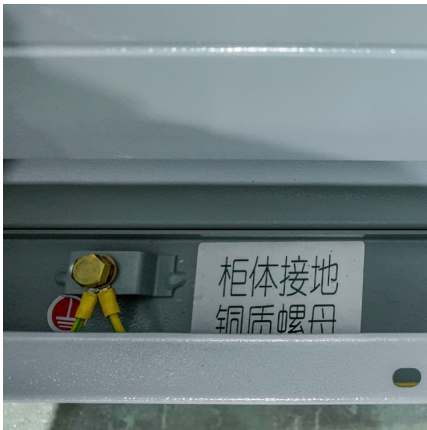
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### [Bjørn Nyland Checks Out Solid-State Battery ...](#)

Here is one of the most interesting presentations of the all-electric Mercedes-Benz eCitaro bus version equipped with the solid-state batteries (SSB).



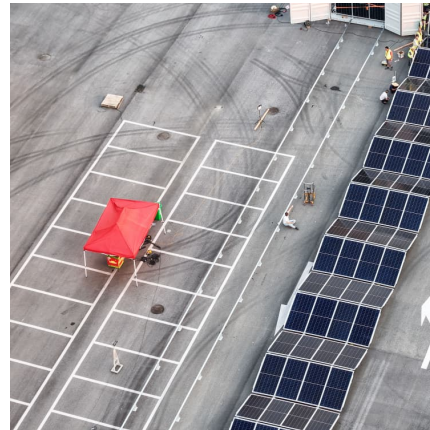
### [Daimler Buses and solid-state batteries: "With new ...](#)

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 rendered the solid-state solution unnecessary, ...



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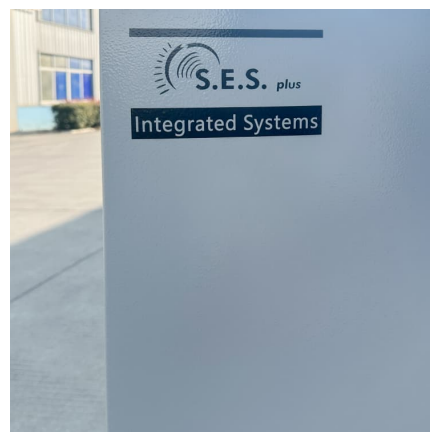


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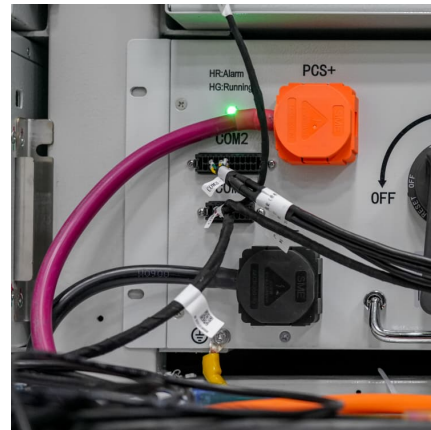
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### Pressrelease , Daimler Truck

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