

# Panasonic's New All-Solid-State Batteries are A Game-Changer for Drones and EVs

By **Anubhav** - Sep 18, 2023

Panasonic Holdings has revealed that it is working on all-solid-state batteries with a focus initially on drones. Scheduled for mass production in the latter half of the 2020s, these batteries could be the answer to faster, more efficient energy storage.

## These new batteries can charge up to 80% in about 3 minutes

What sets this new technology apart? The company claims that these all-solid-state batteries can charge up to 80% in just about 3 minutes. That's a far cry from existing lithium-ion batteries, which can take up to an hour to charge fully. Imagine drone operators, not having to ground their machines for extended periods—leading to unprecedented efficiency in industries like agriculture, surveillance, and delivery services.



For the first time, Panasonic has showcased this emerging technology to the media and prospective customer firms, albeit keeping the technical specifics under wraps. Insiders do, however, suggest that these batteries can endure tens of thousands of charge-discharge cycles, dwarfing the typical 3,000 cycles that lithium-ion batteries offer.

While drones are the immediate target, the bigger picture is even more exciting. All-solid-state batteries have the potential to revolutionize the electric vehicle (EV) market. With companies like Toyota already planning to introduce these batteries into their EVs by 2027-2028, it's clear that the automotive industry is eyeing this technology keenly. Toshio Ogawa, Chief Technology Officer at Panasonic Holdings, stressed the need for collaborative efforts with automakers for successful integration into vehicles, saying, "It cannot be done independently by one company."

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Anubhav's life rests on two pillars - tech and music. When he's not writing about the latest buzz in the tech world, he can be found producing music, writing poetry and listening to new albums.

