

# Panasonic unveils 4680 battery for use in high-end Tesla vehicles

26 October 2021, by Bob Yirka



Credit: Pixabay/CC0 Public Domain

Panasonic has announced to the press that it is ready to show off its new cylindrical 4680 battery (46 millimeters wide and 80 millimeters tall), built specifically to accommodate Tesla electric vehicle (EV) requirements. In the announcement, Kazuo Tadanobu, CEO of Panasonic's Energy Company, held up one of the prototype batteries for reporters and claimed that the new battery has five times the storage capacity of previous batteries the company has made for Tesla vehicles—each is rated at 9000 mAh. He also noted that the company will not be making lithium iron phosphate (LFP) batteries for electric vehicles.

For many years, Panasonic has been the sole provider of batteries for Tesla's [electric vehicles](#), but recently Elon Musk, head of Tesla, announced deals with other [battery](#) makers. In response to questions about the relationship Panasonic has with Tesla, Tadanobu claimed that it is as strong as ever—the other makers will be providing the EV company with LFP batteries for Tesla's lower end vehicles.

The [new battery](#) is bigger than those Panasonic

has made for Tesla up until now—it has a 46-mm diameter and is 80 mm tall. Tesla puts hundreds of them together in their vehicles as battery packs. Tadanobu claims that the batteries are 50 percent cheaper to produce, and his company expects to finish plans for [mass production](#) by March of next year, at which time they will begin delivery to Tesla. He added that the new shingle-spiral form design of the battery will allow for a 100-fold increase in production capabilities. He also noted that sales of Tesla vehicles have been so strong that the company will likely be selling as many of the batteries as they can make, claiming that development of the new battery has deepened ties with Tesla. He did not specify where the batteries will be made however. Panasonic currently operates a battery plant in Nevada for supplying its current batteries to Tesla, an advantage the company has over Chinese companies who have thus far refused to build battery factories in the U.S.

Notably, Apple Inc. has also been in talks with battery makers; the computer maker is rumored to be exploring electric vehicle manufacturing. Tadanobu declined to say whether one of those companies was Panasonic.

© 2021 Science X Network

APA citation: Panasonic unveils 4680 battery for use in high-end Tesla vehicles (2021, October 26) retrieved 26 January 2022 from <https://techxplore.com/news/2021-10-panasonic-unveils-battery-high-end-tesla.html>

*This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.*