

Which is better 4680 battery or 21700 battery

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Generated on: 2026-04-20 20:06:28

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What is the difference between a 2170 and a 4680 battery?

Despite its larger size, the 4680 pack delivers slightly less overall energy capacity--about 67 kWh versus the 2170's 75 kWh--yet offers strategic advantages in cost, integration, and vehicle structure. The 2170 cells are supplied by Panasonic, whereas the 4680 cells are developed and manufactured in-house by Tesla.

What is the difference between a 21700 and a 4680 cell?

The 4680 cell has more than five times the volume of the 21700 format. Large-format cylindrical cells are also expected to reduce production costs in pack assembly because fewer individual cells are needed to be assembled and interconnected to achieve the same battery pack energy.

How big is a 21700 battery?

So, the 21700 label indicates a battery cell that is 21 mm in diameter and 70 mm in height (the last digit is there to indicate other potential modifications of the cell; Tesla has completely omitted this last digit in their naming convention for 4680 cells). Figure 1. Dimension differences between 18650, 21700 and 4680 cells.

What is the difference between a 2170 and a 4680?

Despite having fewer cells, the 4680 pack includes 56 kg of cell can material--compared to 52 kg in the 2170 pack. Why? The 4680's can is substantially thicker, a necessity due to its structural integration into the vehicle.

The Tesla 4680 battery has five times the energy and six times the power of its predecessor, the 2170 battery.

Thus, in this article we thought to compare the various cell sizes and see the different specification for 4680 vs 21700 vs 18650. Graphical Comparison of 4680 vs 21700 vs ...

In this article, we'll explore the technical differences between the 4680 and 2170 battery packs used in the Tesla Model Y, drawing from Munro & Associates' teardown analysis ...

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In this Article, we will compare different Cylindrical Cell Sizes used in electric Vehicles. 4680 vs 21700 vs 18650. if you are interested to learn about Cells, different Cell Formats, Cell ...

Discover the differences between 18650,21700, and 4680 battery formats and how manufacturers like Tesla, BYD, and CATL approach them for EVs and energy storage.

As mentioned, the 4680 is expected to offer 5 times the energy storage and 6 times the power compared to the 2170 battery, which translates to an expected driving increase from 82 kWh ...

2170 battery-type cells are widely used in dual-motor Tesla Model 3 and Y vehicles. Looking beyond this obvious similarity, you start to notice the sheer number of differences between ...

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Comparison among batteries: 18650, 21700, 26650, 30700, 4680 and others An exemplary battery structure is as the following:

As production ramps up and technology matures, we can expect to see further improvements in 4680 battery specification and ...

As production ramps up and technology matures, we can expect to see further improvements in 4680 battery specification and overall performance. While the 2170 will likely ...

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