# Production of 4680 battery company

Can a 4680 battery be made mass?
However,manufacturing 4680 battery cells requires more advanced technology and expertise,but Panasonic has pioneered a mass production methodfor these high-performance 4680 cells in what the company expects to be a new benchmark for the industry.

What is a 4680 battery?
Panasonic's new 4680 batteries - so named for the dimensions of each battery cell,46 millimetres in diameter and 80 millimetres in height - are a step change in battery technologyand boast substantial improvements over more traditional 2170 cells (21mm in diameter and 70mm in height).

Are 4680 batteries a time for cylindrical batteries?
Tesla and its suppliers,such as Panasonic and LG Chem,are increasingly specialized in cylindrical batteries. However,the 4680 battery is also considered a comeback for cylindrical batteries. This is due to the core technological innovation of Tesla's 4680 battery. The toothpaste tube analogy refers to the improved energy density and manufacturing efficiency of the 4680 battery.

Is Panasonic ready to start production of 4680 automotive lithium-ion batteries?
Panasonic Energy Co.,Ltd. has issued a press release entitled "Panasonic Energy Ready to Commence Mass Production of 4680 Automotive Lithium-ion Batteries" You can read the press release with the following PDF link. The content in this website is accurate at the time of publication but may be subject to change without notice.

How much energy does a Tesla 4680 battery have?
The analysis from UC San Diego shows that the Tesla 4680 battery has a nominal energy density of 244 watt-hours per kilogram and a usable density of 230 Wh/kg. This is significantly less than the Panasonic 2170 battery,which has a nominal energy density of 269 Wh/kg and a usable density of 255 Wh/kg.

How much will a 4680 battery cost per kWh in 2024?
If the mass production of 4680 batteries goes smoothly,it is estimated that after 2024,the cost of 4680 batteries per kWhis 50-100 yuan cheaperthan that of ternary prismatic batteries.

Panasonic has announced its is ready to begin mass production of Tesla"s 4680 battery cells. The production of these cells, which will take place at Panasonic"s Wakayama plant in Japan, comes after years of development and preparation. Panasonic"s development of the 4680 battery cells for Tesla traces back to Tesla"s Battery Day in 2020, where the automaker ...

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Production milestone records. Tesla produced its first millionth 4680 battery cell in January 2022. The company only took 16 months to reach 10 million 4680 battery cell production from its first million. At that time, Giga Texas was producing approximately 562,500 cells every month.

Panasonic Energy Co., Ltd., a Panasonic Group subsidiary, has reported completion of preparations for mass production of 4680 cylindrical automotive lithium-ion ...

Tesla"s battery partner Panasonic is starting series production of 4680 battery cells. The plant in Wakayama, Japan, has been remodelled for this purpose. According to the company, it will now act as a "mother factory" for the new cells and thus serve as ...

Leveraging its 30 years of know-how in the development of cylindrical lithium-ion battery technology, Panasonic Energy has pioneered a mass production method for high-performance 4680 cells,...

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Panasonic Energy Co., Ltd., a Panasonic Group subsidiary, has reported completion of preparations for mass production of 4680 cylindrical automotive lithium-ion batteries. The company has remodeled its Wakayama factory in Western Japan to serve as the primary production facility for these new cells.

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