Tesla battery manufacturing process pdf

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Tesla’s revised documents for Gigafactory Berlin have been posted online, and they are a treasure trove of information. The documents provided some new details about Tesla’s planned 4680 battery plant in Gigafactory Berlin, which Elon Musk noted is on track to be one of the world’s largest battery production facilities. They also outlined how Tesla’s 4680 cells are produced.

While sections of the filing pertaining to the planned 4680 battery cell plant in Giga Berlin were blacked out due to sensitive information that could not be made public, the documents show some important tidbits about the upcoming facility. This includes the facility’s cell production operations over four floors, with anode and cathode production on the first floor and tabless cell production on the third floor. The battery plant is massive, requiring large foundations similar to Gigafactory Berlin’s Phase 1 zone.

Most importantly, Tesla also submitted a simplified diagram of its 4680 battery cell production process, though most of the diagram was blacked out in the revised filing’s public release. However, the company provided a brief overview of how its new battery cell will be produced in the upcoming facility (roughly translated through Google Translate).

The revised filings also provided a general idea of how Tesla’s tabless cell production works. Among these is the fact that the finished 4680 cells would be subjected to 10 days’ worth of curing after their formation.

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