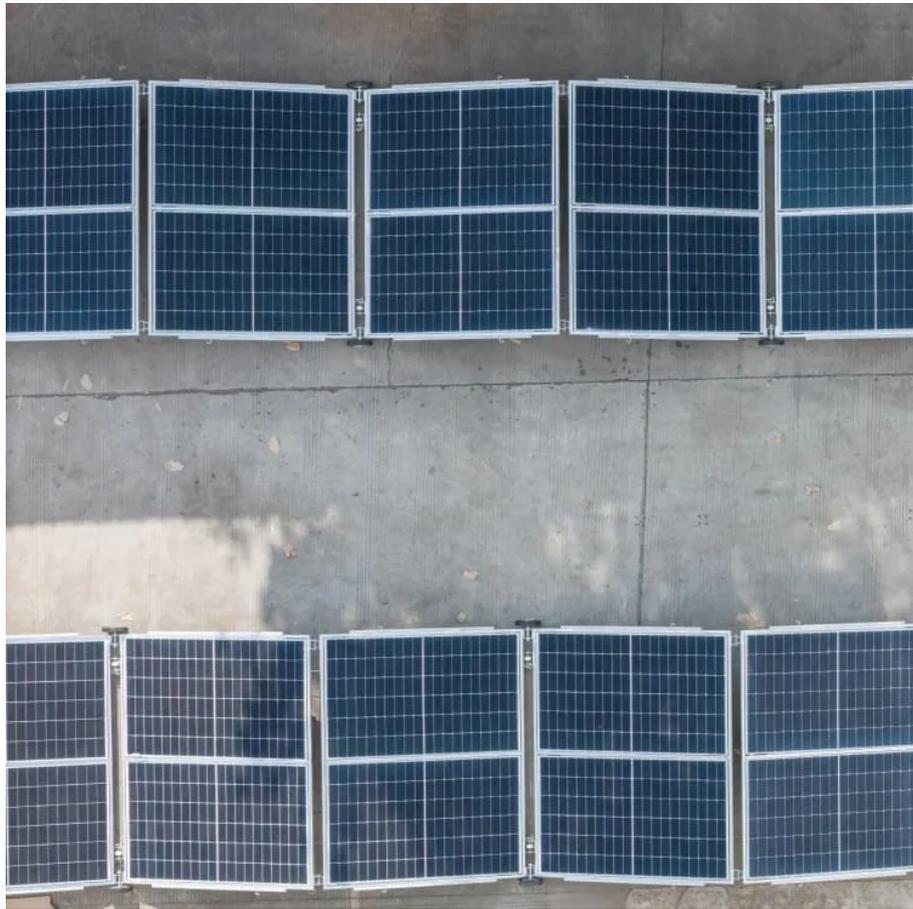


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Overview

Which battery parameters are used for the cost calculation module?

Battery parameters for the Cost Calculation module. Our selection adopts the widely recognized 18650 cells as the foundational benchmark for the cost assessment of cylindrical cells. Pouch and prismatic cells are less standardized, but their dimensions were selected similarly to cylindrical cells.

What is a battery cell design module?

The Battery Cell Design module calculates the undetermined dimensions—the diameter for cylindrical cells and the width for pouch and prismatic cells. Table 5. Battery parameters for the Cost Calculation module. Our selection adopts the widely recognized 18650 cells as the foundational benchmark for the cost assessment of cylindrical cells.

How to choose a battery chemistry?

The choice of different cell chemistries depends significantly on the application of the battery. Variations can be observed in aspects such as energy density, lifespan, performance, safety, or costs .

How does a battery cost model work?

The cost model is divided into two modules: Battery Cell Design and Cost Calculation. The first module is responsible for designing batteries in the three standard geometries, following user-defined performance requirements; the second module calculates the costs of the necessary materials and manufacturing costs.



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