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How to assemble large battery packs?
When assembling large battery packs it is necessary to connect cells in series and parallel. Actually the normal method is to assemble them in parallel groups and then to assemble these groups in series. Firstly it is worth remembering what is meant by parallel and series.

What is a battery pack design?
The basic explanation is how the battery cells are physically connected in series and parallel to achieve the desired power of the pack. Check out this design guide, Custom Battery Pack Design Guide - Manufacturing Capabilities. The physical layout of the configurations is typically designed to fit within a desired dimensional space.

What are the basic principles of a battery pack design?
The diagram below shows the basic principles. In most pack designs the cells are connected in parallel blocks (when P is greater than 1) and then in series. This is an important factor in managing the battery configuration. However,we will also discuss connecting series strings of cell in parallel as a separate article.

How do battery pack configurations work?
Battery pack configurations can be designed with several options, some of which are determined by the chemistry, cell type, desired voltage and capacity, and dimensional space constraints. The basic explanation is how the battery cells are physically connected in series and parallel to achieve the desired power of the pack.

Design your ideal battery pack with our interactive Battery Package Calculator. Compare cells, calculate configurations, and optimize your power solution for any project.

Linear Or F TypeNested Type CellsFace Centered CubicCircular Type CellsLinear Or L-Type CellsUnsure of The Battery Configuration You Need?Optimize your energy solutions with our custom-configured battery packs. From linear to circular configurations, our design team can help you meet your specific needs.See more

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