Smart Battery System

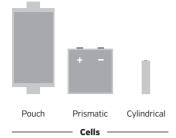
building steps



Cells

An electrochemical cell is a device capable of either generating electrical energy from chemical reactions or using electrical energy to cause chemical reactions.

Cells can be made of different combinations of electrochemistry and packaged in different shapes.





4x lighter than lead

batteries

The benefits of lithium-ion cells

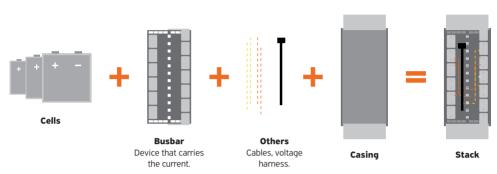
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Large Lightest or least electronegativity dense metal



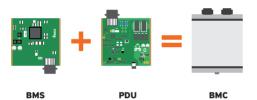
It is the mechanical and electrical assembly of cells with components such as busbar, casing and others.





BMC

It is unit that contains a BMS (the card that manages the system) and a PDU (the card that manages the power distribution).



We call it smart battery system because of the **battery management system** (BMS), which ensures battery's correct operation and safety, through:







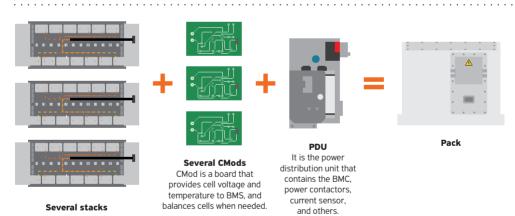
Monitoring cell voltage and health.

Estimating charge/ discharge currents and battery's temperature.

Communicating with the Master BMS.



It is made of several stacks connected to several CMods and a PDU





Smart Battery System

It is made of several packs connected to a Master BMS

