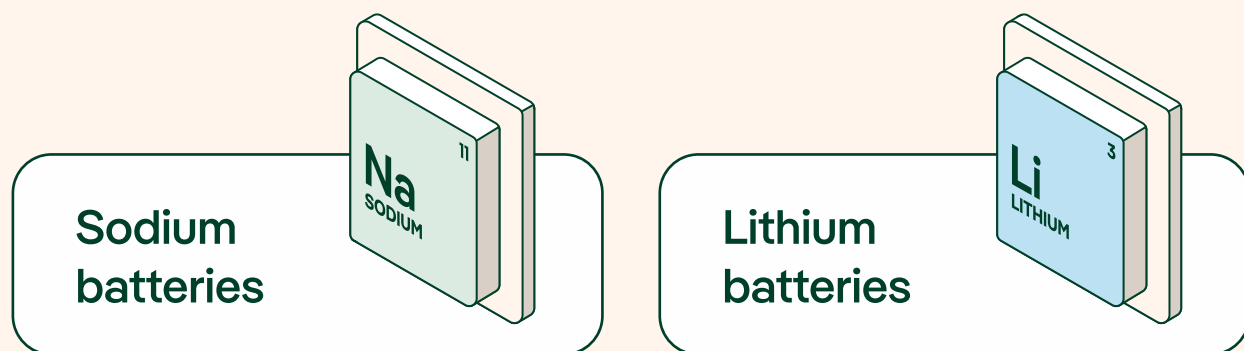


Ion batteries

Differences between sodium-ion and lithium-ion batteries



Energy density	≈ 150	⚡ ≈ 250
Cyclability	⚡ ≈ 4000	≈ 2000
Voltage	≈ 3.7	⚡ ≈ 4
Efficiency	Lower	⚡ Higher
Safety	⚡ High	Medium
Need for critical raw materials	⚡ No	Yes
Cost	⚡ Less costly and less volatile	More expensive and more volatile
Size	Bulky	⚡ Light
Low temperature performance	⚡ Good performance	Lower performance
Charging and discharging time	⚡ Fast in both cases. Allows 100 % discharge	Longer duration
Flammability	⚡ Non-flammable	Flammable
Recyclability	⚡ Moderate	Difficult

⚡⚡ The options highlighted with a lightning bolt are the most advantageous for each characteristic.

Source: Blackridge Research & Consulting and CIC EnergiGUNE.