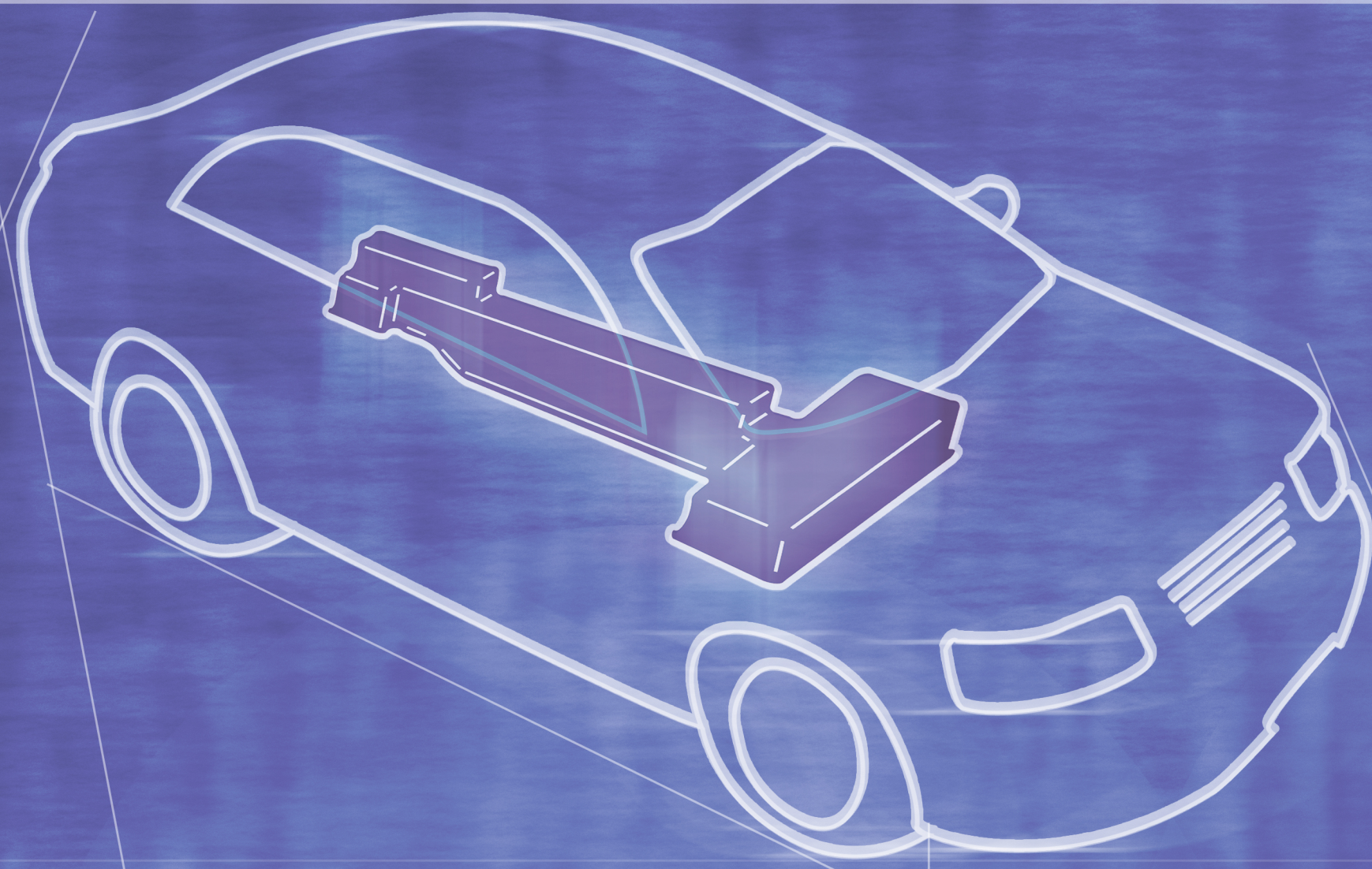
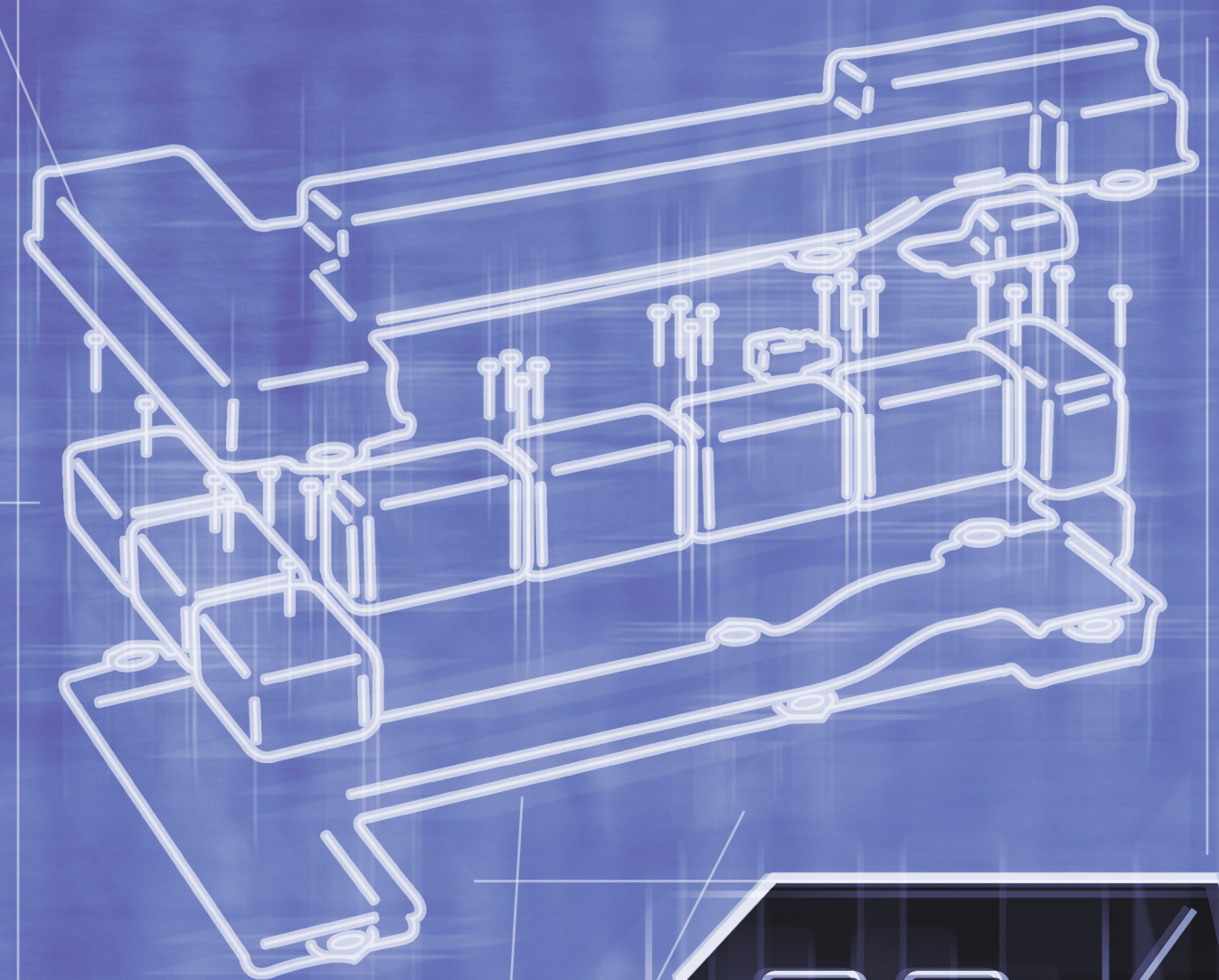


LIB. Summary

The Lithium-ion battery is the electric vehicle's energy source. It usually rests in the floor of the car.

More battery packs allow for more energy storage, and further range for vehicles. Currently, the longest range is 300 miles on a single charge.



Lithium-Ion batteries (LIBs) are designed to be recharged.

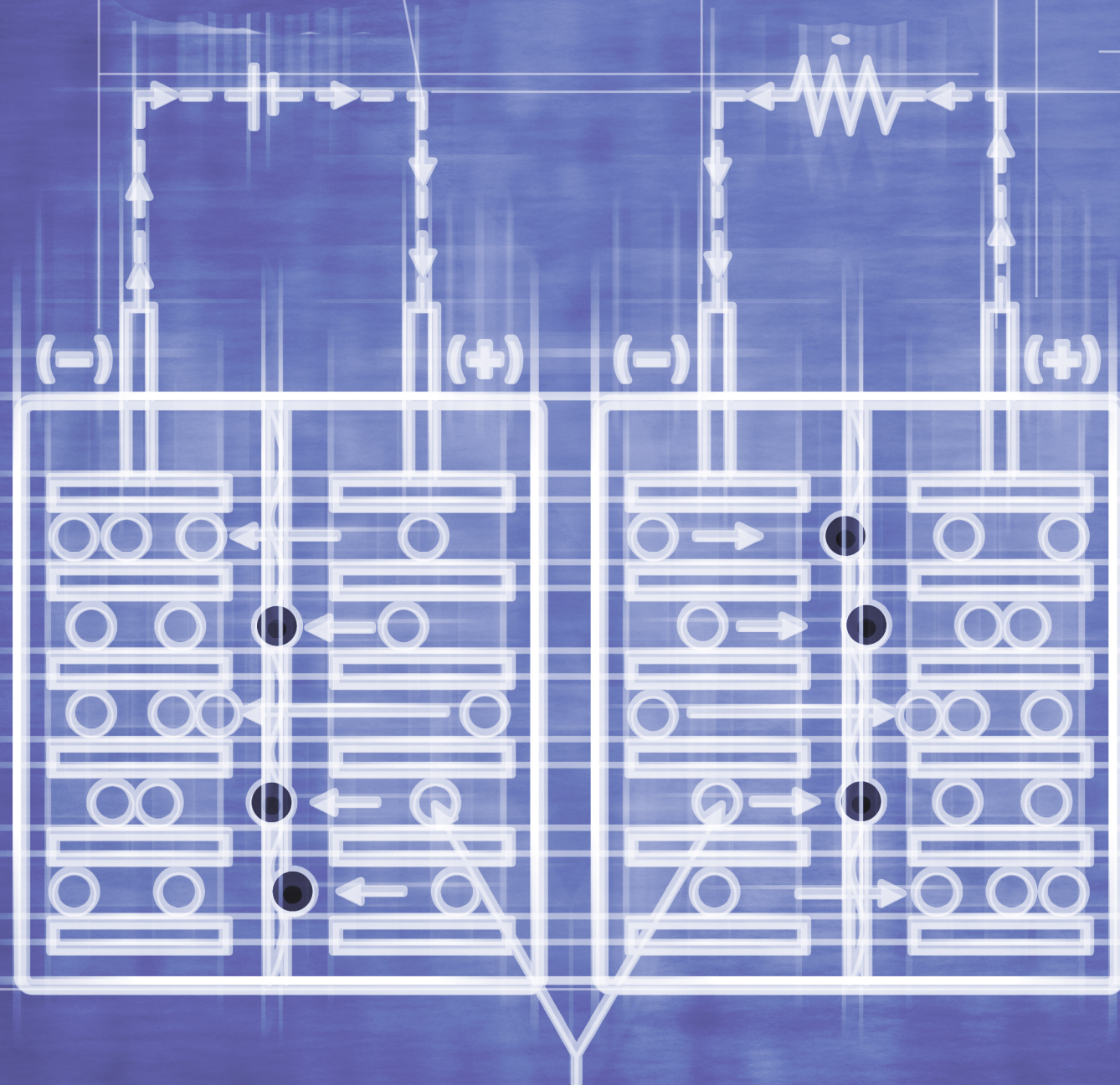
LIBs:

- can be made in any shape or size
- are smaller and lighter, comparative to other
- batteries with the same energy output
- can operate at a higher voltage
- can hold a charge for much longer than any
- other type of battery.



The battery pack consists of multiple stacked units, called modules.

Each module is a container for layers of cells where reversible electrochemical reactions take place, the direction of current flow decides whether it's a charge, or a discharge.



the lithium-ions...

Lithium is an extremely active chemical element, and it provides a great deal of power relative to its low mass.

During a charge, a power source applies an over-voltage, and the lithium ions carry the current flow from the positive to the negative electrode. During a discharge, the opposite occurs.

