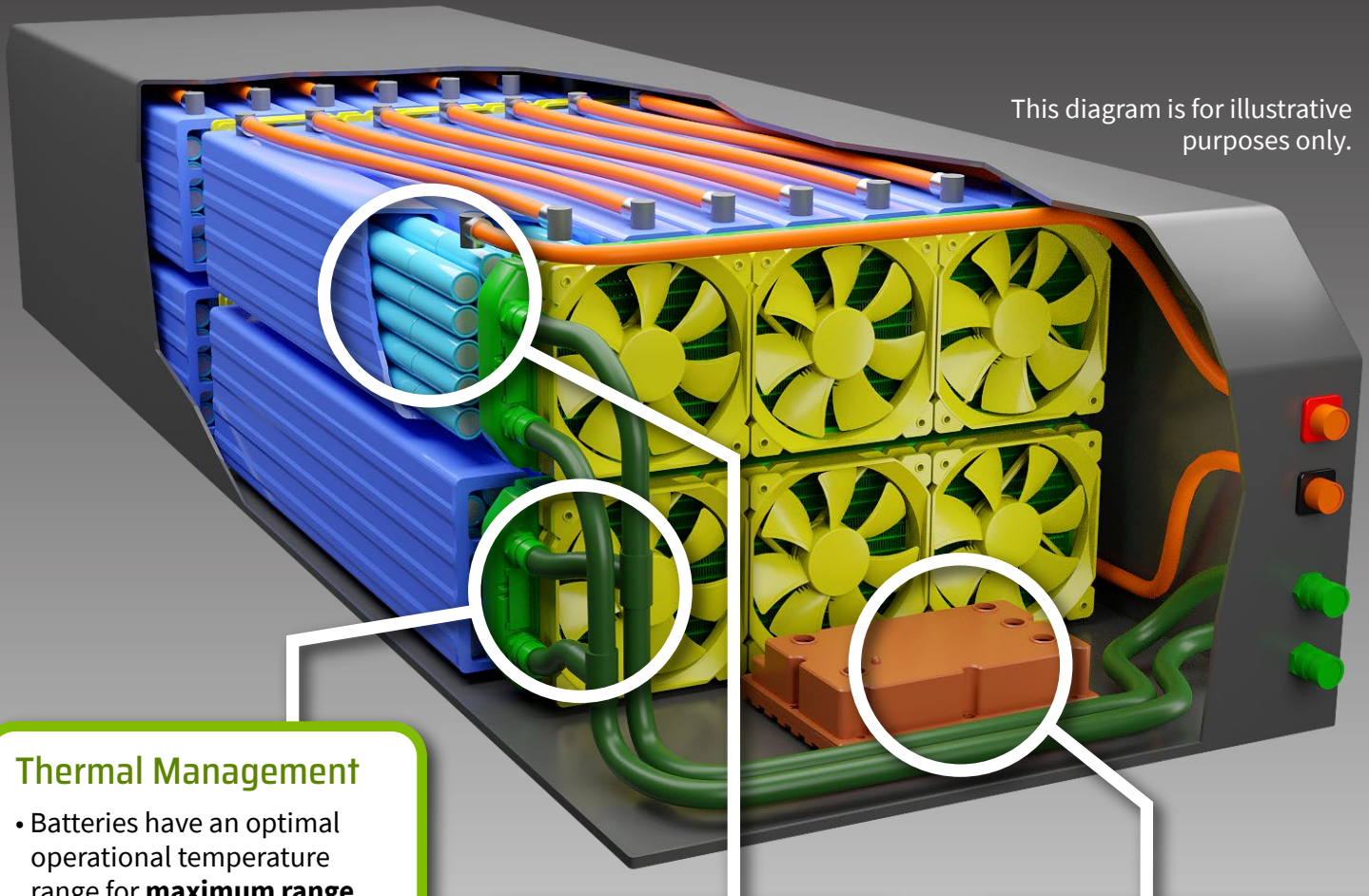


Battery Quality



Not all EV batteries are the same, and the old saying “you get what you pay for” definitely applies. We believe that the best EVs require the best batteries as they deliver the optimum combination of range, reliability, efficiency, longevity and safety. The diagram below shows the benefits of the battery technologies we select for our vehicles.



This diagram is for illustrative purposes only.

Thermal Management

- Batteries have an optimal operational temperature range for **maximum range and performance**.
- It also extends the battery's operational life from **just one year to seven years or more**.
- Lightning's thermal management system is one of the **most sophisticated in the industry**. It automatically...
 - cools to ambient temperatures (radiator)
 - cools below ambient temperatures (chiller)
 - heats above ambient temperatures (heater)

Premium battery cells

- **High-quality** 18650-type Li-ion cells from a major electronics OEM.
- The same cells are used in EVs from most **major US and European car manufacturers**.
- Nickel-Manganese-Cobalt (NMC) technology provides **great range and reliability**.
- **Internal safety features** prevent over-current conditions.

Battery Management

- Lightning eMotors' electric drivetrains incorporate **sophisticated software and hardware controls** at all levels.
- **Battery controls** manage state-of-charge including cell balancing.
- Supports **AC charging and DC Fast Charge**. (Most other vendors don't offer DC Fast Charge.)