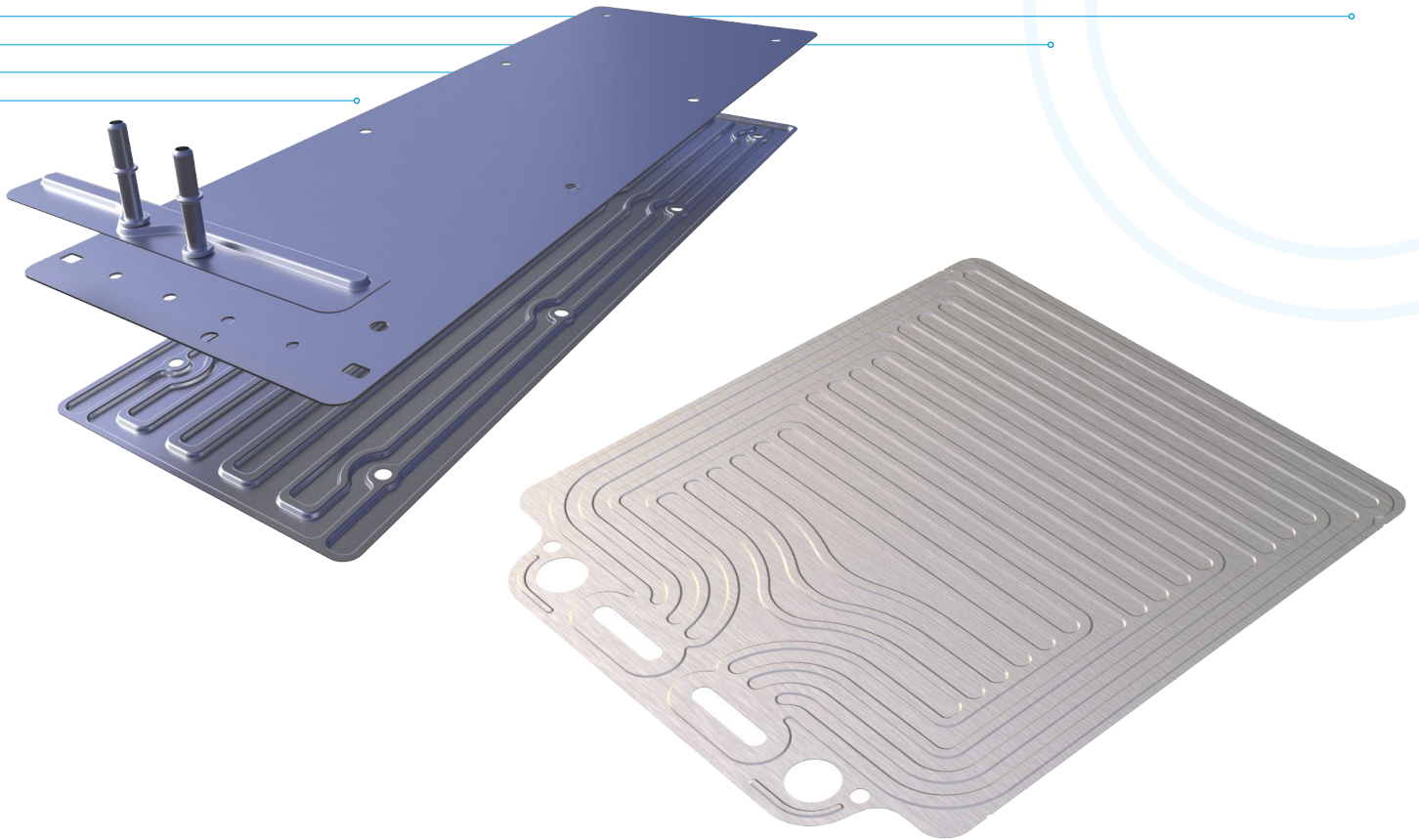


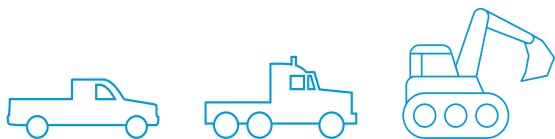


LONG[®]
Thermal Products

Hybrid & Electric Vehicle Battery Cooling Technologies



Ideal for Light Vehicle, Commercial Vehicle, and Off-Highway Vehicle Applications



Battery Cooling Technologies for the Most Advanced Vehicles

Dana designs, develops, and manufactures custom heat transfer products for vehicle electrification. Our extensive range of Long® thermal-management products sets the industry standard for innovation and quality.

Dana offers a range of thermal-management products for hybrid and electric vehicle battery applications, for both light- and heavy-duty vehicles. Dana's extensive R&D facilities enable custom-designed cooling solutions that feature lightweight aluminum construction and result in ultraclean products. With deep expertise and problem-solving ability in thermal-management applications, Dana provides solutions that are customized to exact OEM needs.

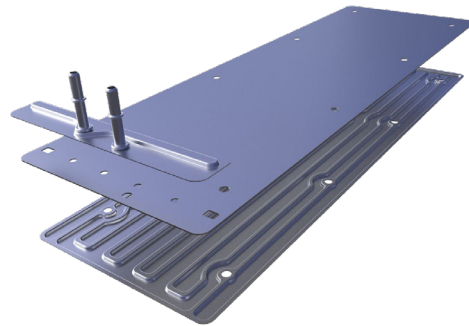
InterCell Battery Cooling Plate

- Thin (1 mm) plate cooler with internal liquid-cooling channels
- Interleaved between cells for maximum thermal surface contact
- Best achieved cell temperature uniformity for extended battery life
- Superior cooling during fast charge/discharge
- Integrated dielectric separation film



Battery Cold Plate

- Liquid-cooled plate for mounting hard can battery modules
- Lightweight, stamped aluminum construction – fluxless brazed for non-ionic coolant compatibility
- Flow-balanced designs for uniform battery pack temperature
- Customized fluid connectors and routing lines



[Dana.com/e-mobility](https://www.dana.com/e-mobility)

Application Policy

Capacity ratings, features, and specifications vary depending upon the model and type of service. Application approvals must be obtained from Dana; contact your representative for application approval. We reserve the right to change or modify our product specifications, configurations, or dimensions at any time without notice.



LONG®

Thermal Products