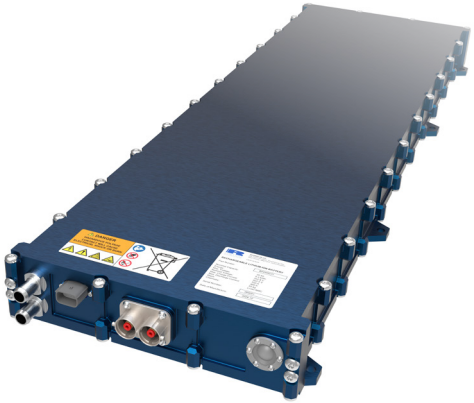
RICARDO

Available end of 2028

Advanced Modular Battery System

Advanced Modular Battery System (AMBERS) provides a cost-effective approach to clean-sheet battery module design for high-performance and specialised applications.



Features:

- Scalable up to 500kW electrical power
- Continuous cell dissipation up to ~12W/cell
- Wireless BMS
- 21700 cylindrical power cells
- Innovative ribbon cooling approach

Flexible, scalable high-performance battery development

This pre-engineered development platform is built around a modular high power (>12C) design which is available off-the-shelf or adaptable to meet bespoke requirements by Ricardo's electrification experts.

Baseline pack specification

Voltage range	226V - 353V
Nominal capacity	9.1kWh
Max discharge	420A, 112kW
Max charge	240A, 75kW
Dimensions	1300 x 350 x 90mm (40L)
Power density	2.03kW/kg, 2.8kW/L
Energy density	165Wh/kg, 227Wh/L

Up to
500kW
Electrical power

Up to
~12W/cell
Continuous cell dissipation

Platform Options

Baseline Pack

- Available off-the-shelf
- No additional engineering required
- Baseline cell-cluster
- Wireless BMS
- Innovative cooling system

Tailored Pack

- Uses Baseline cell-cluster
- Customised cell selection, 21700
- Pack re-designed for vehicle packaging
- Wireless BMS software updated to meet vehicle requirements

Bespoke Pack

- Bespoke cell choice and cluster arrangement
- Bespoke cooling configuration
- Re-engineered BMS software

Register your interest

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