

THE COMPACT URBAN ELECTRIC VEHICLE:

a technology development platform

Chris Hodgson, Lead Engineer





Introduction

Delivering
low carbon
technology

- Hyperdrive Innovation
- Cue-V
- Drive Train
- Battery System
- Battery Management System
- Charging Interface
- Systems Integration
- Future Developments



Hyperdrive Innovation

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technology

- Hyperdrive is an engineering company that develops low carbon vehicle technology and support our customers with design and development activities.
- Based in the north-east of the UK.
- Formed earlier this year by a merge of two companies.
- Team of dedicated engineers and technicians.





CUE-V Technology Demonstrator

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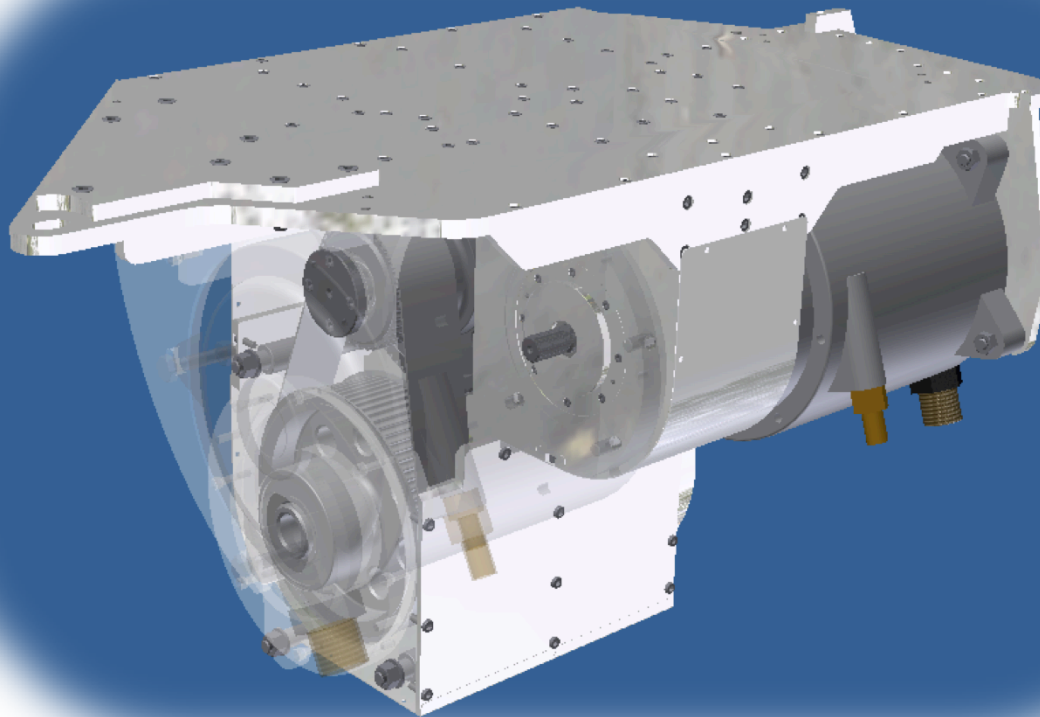


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Drive Train

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Battery System

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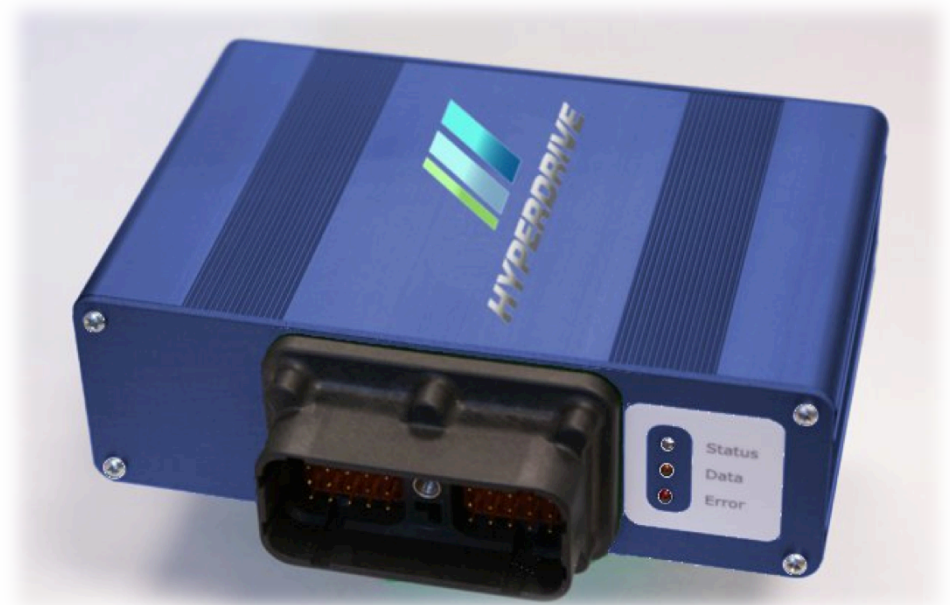
- 24 Lithium-polymer Cells
- Integrated Battery Management System
- Modular system



Battery Management

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- Designed and built by Hyperdrive
- 12 cells per module
- Up to 5V per cell
- Fully Modular
 - Up to 16 Modules
 - Up to 192 Cells in total.



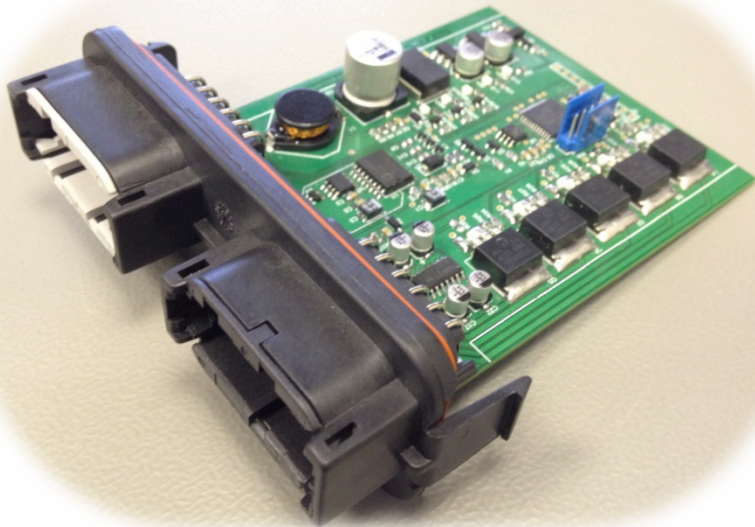
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Charging Interface

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- Module Dedicated to supply interface and charger control
- Capable of contactor and auxiliary control

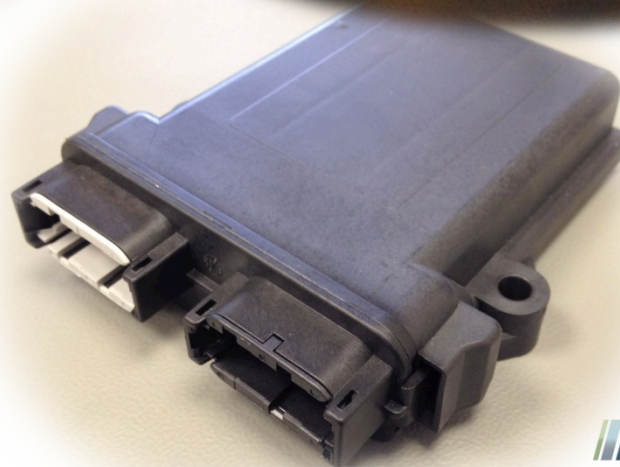


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Systems Integration

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Future Developments

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- Range Extender
- Battery Management System development
 - Fully active balancing circuits
 - Improved algorithms
- Data Logger
- Advanced and improved systems integration algorithms
- Power electronic components.

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