

ELECTRIFICATION LIBRARY



► A common solution for multi-purpose modeling of electrified systems.

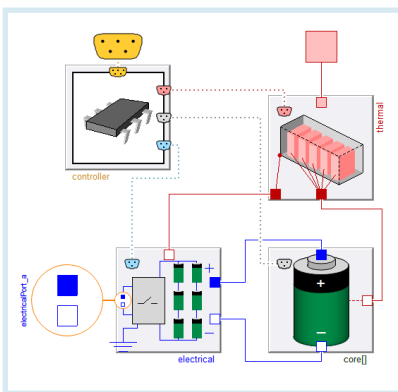
Electrification Library provides a complete multi-physics solution for modeling electrified systems in automotive, aerospace, industrial and energy applications. The library includes highly configurable models of batteries, electric machines, converters, loads and routing.

With its scalable architecture, Electrification Library allows the model fidelity to be adapted to a wide range of use cases: from early concept studies with generic components, to later system verification stages with custom implementation details.

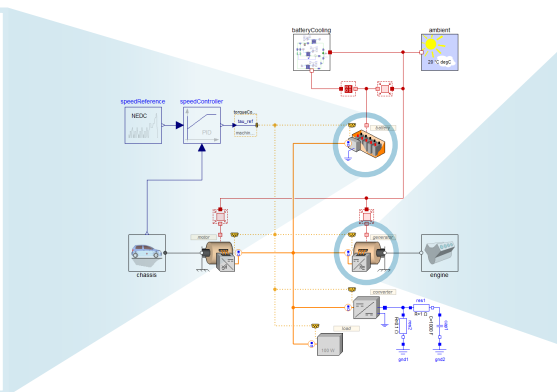
Developed in close cooperation with leading industry partners, this library can be directly integrated with libraries included in the Modelon Library Suite.

KEY FEATURES:

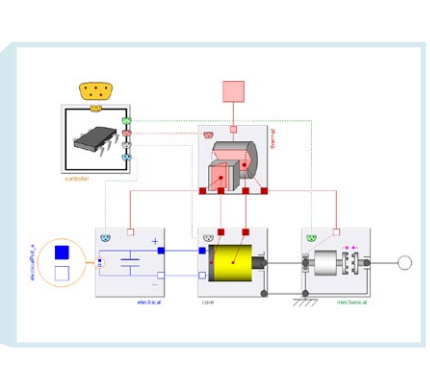
- Multi-physics library for electrical, mechanical, thermal and controller dynamics
- Unique architecture for scalable model fidelity
- Open, modular and easily extensible
- Built for model re-use and configuration management
- Support for thermal dynamics in every component
- Integrated controller architecture, suitable for MIL/SIL/HIL testing
- System and component examples to demonstrate key features and dynamics



Battery Pack



Series Hybrid Vehicle



Electric Machine

