

LMS Imagine.Lab Amesim VEM and thermal package

Designing and optimizing thermal energy management strategies and architectures

LMS/IL-AME.31.1/15-001

Benefits

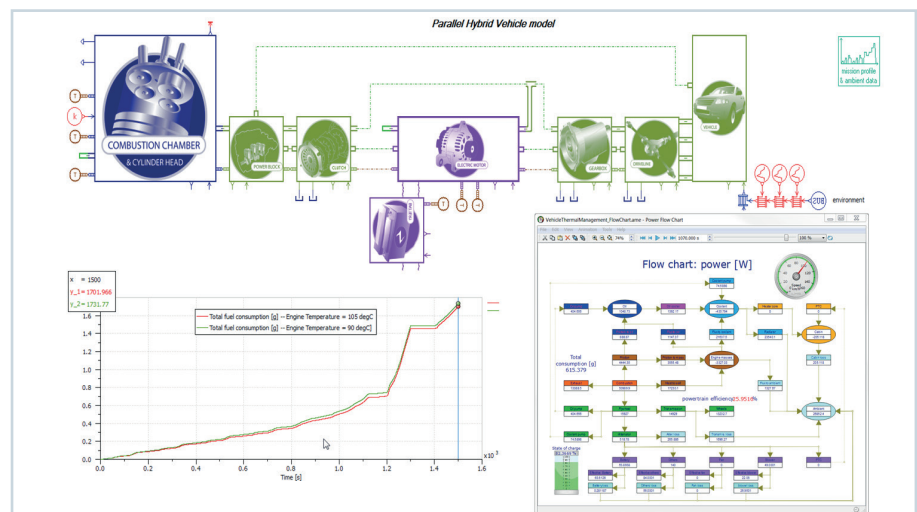
- Design and optimize thermal energy management strategies and architectures
- Optimize energy flows to minimize fuel consumption and emissions
- Seamlessly and rapidly specify, integrate and validate thermal components and systems in the early design stages

Summary

The LMS Imagine.Lab™ software vehicle energy management (VEM) and thermal package enables you to assess energy management with a specific focus on the thermal aspects of subsystems.

The package enables you to model, size and analyze thermal-management-related components, subsystems and subsystem interaction: lubrication,

engine cooling, air conditioning, thermal engines, heating, ventilating and air conditioning systems (HVAC), including cabin and energy recovery. You can optimize energy flows under the hood and in the cabin, which directly or indirectly affect pollutant emissions, fuel consumption, engine performance and passenger thermal comfort.



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Features

- A solution for early-stage analysis, detailed design and validation
- A set of application-specific tools

LMS Imagine.Lab Amesim packages and options included

LMS Imagine.Lab Amesim software advanced version [IL-AME.03.1]

LMS Imagine.Lab Simulink interface [IL-INT.01.2]

Libraries and library options included

LMS Imagine.Lab IFP drive [IL-DSS.01.2]

LMS Imagine.Lab IFP engine [IL-DSS.02.2]

LMS Imagine.Lab IFP exhaust [IL-DSS.03.2]

LMS Imagine.Lab thermal [IL-DSS.21.2]

LMS Imagine.Lab thermal-hydraulic [IL-DSS.22.3]

LMS Imagine.Lab thermal-hydraulic component design [IL-DSS.23.4]

LMS Imagine.Lab cooling system [IL-DSS.31.4]

LMS Imagine.Lab two-phase flow [IL-DSS.32.3]

LMS Imagine.Lab air-conditioning [IL-DSS.33.4]

LMS Imagine.Lab pneumatic [IL-DSS.41.2]

LMS Imagine.Lab heat exchangers assembly tool [IL-DSS.34.4]

LMS Imagine.Lab gas mixture [IL-DSS.44.2]

LMS Imagine.Lab moist air [IL-DSS.45.3]

LMS Imagine.Lab powertrain [IL-DSS.51.2]

LMS Imagine.Lab 3D mechanical [IL-DSS.55.2]

LMS Imagine.Lab electrical basics and converters [IL-DSS.69.2]

LMS Imagine.Lab electric motors and drives [IL-DSS.61.3]

LMS Imagine.Lab automotive electrics [IL-DSS.62.4]

LMS Imagine.Lab electric storage [IL-DSS.63.3]

Supported hardware platforms

For details on supported hardware, minimum/recommended physical configurations and operating systems, please refer to the LMS Imagine.Lab Amesim™ software fact sheet.

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