

On-line health diagnostics of inverters for commercial vehicle drive systems

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Objectives:

- Estimating the main failure mechanism in advance power semiconductor modules.
- Identifying the physics behind the failure mechanism by performing FEM simulation studies.
- Identify suitable lifetime model (physics based) to estimate power module lifetime.
- Performing lifetime tests on advance power semiconductor modules.

Funding, Collaborators:

- Swedish Electromobility Centre
- Scania AB

