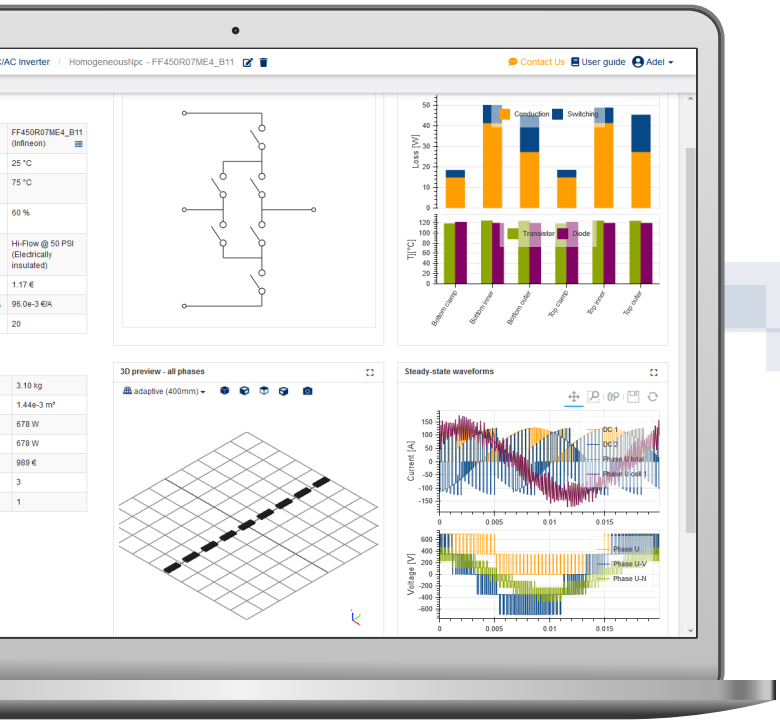
POWERFORGE

MADE FOR POWER CONVERTERS



THE INNOVATIVE BENCHMARK SOFTWARE FOR POWER CONVERTERS

MASS — VOLUME — LOSSES — COST

EXPLORATION

SWEEP ACROSS MULTIPLE PARAMETERS

BENCHMARK POWER SEMICONDUCTOR DEVICES FROM A WIDE & EXTENSIBLE LIBRARY

SPECIFY OPERATING POINT

BENCHMARK TOPOLOGIES: FLYING-CAPACITOR, NPC, T-TYPE...

EXPLORE MODULATION STRATEGIES

MANAGE SWITCHING FREQUENCIES

COMPARISON

EVALUATE PERFORMANCE CRITERIA

COMPARE SiC MOSFET vs IGBT 2-LEVEL vs MULTILEVEL

TRADE-OFF EFFICIENCY vs COST, COST vs TECHNOLOGY, FREQUENCY vs MASS...

Automated sweep and trade-off of POWER CONVERTERS — **Smaller at same cost**

www.powerdesign.tech

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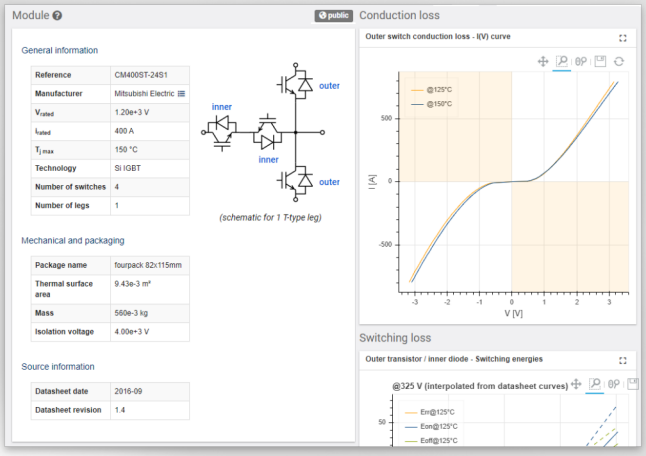
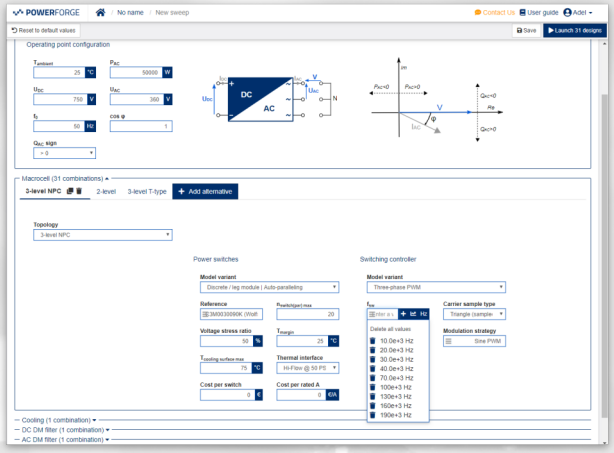
BROAD LIBRARIES OF POWER CONVERTER COMPONENTS

These libraries are assembled from manufacturer-provided data, harmonized in a universal data set enabling a fair comparison across manufacturers and technologies:

- **IGBT, Si & SiC MOSFET, GaN FET**
- Packaged as discretes & power modules
- Film capacitors
- Magnetic materials





AUTOMATED MULTI-PARAMETER SWEEP

Explore the sensitivity of parameters such as:

- **Semiconductor**
- Switching frequency
- Topology
- Modulation strategy
- Number of paralleled chips & interleaved legs

Comprehensive performance data is provided for each parameter combination, helping engineers to identify the best power converter design solution.

CUSTOMISABLE DATA VISUALIZATION TOOLS

Effortlessly build graphs that highlight the performance trade-offs relevant to your project, such as:

- **Efficiency vs cost**
- **Power density vs cost**

Compare across several possible solutions the breakdown of total converter **losses** and **cost** between semiconductor devices, heatsink and filtering passives.

EXPORT TO THIRD-PARTY SOFTWARE: READY TO USE

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LIVE DEMO

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