

eDesignSuite The smart way to design your application









Overview

Main features

Supported applications

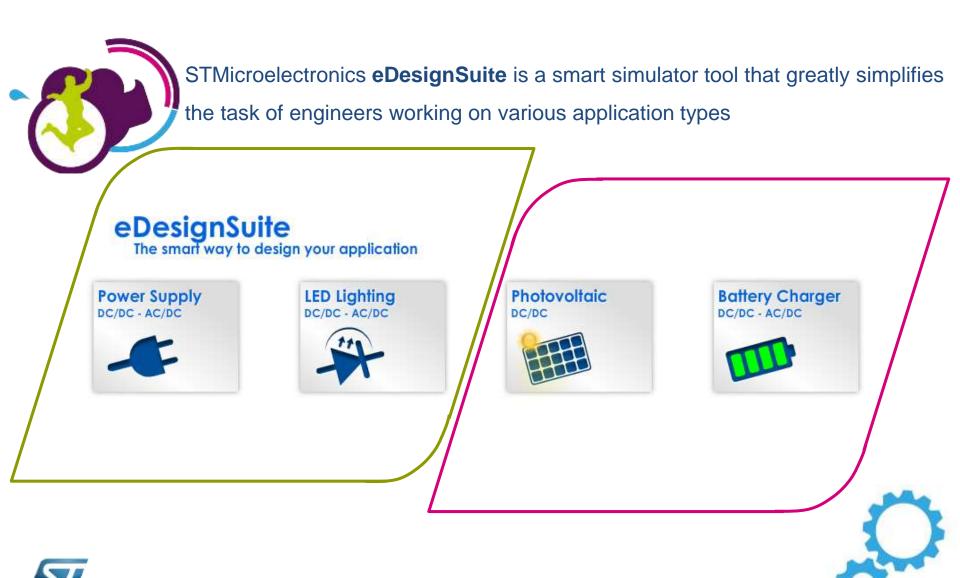




Overview



The application types supported ____



Connecting to eDesignSuite

Quick link

https://myst.com/analogsimulator/





Dedicated page on ST website www.st.com/edesignsuite

Application pages on ST website

Widget tailored for the selected application



Product pages on ST website
Widget tailored for the selected IC

or IC class





A complete design in a few steps



or

Open eDesignSuite off-line version (ask to ST sales office)

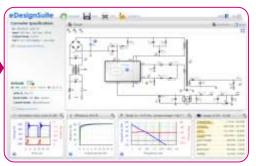


Insert your I/O specifications in eDesignSuite Widget on product/application pages



Ty

Select one of the proposed IC driver



The design is ready!



Helps to select the optimal IC for your needs

By inserting I/O specifications, the tool suggests

you the right ICs



3

More ICs features available

2

You can select, among the suggested ICs, only the ones with specific features



4

Start the design simulation with the filtered ICs

What's in the design view?

ExtBias

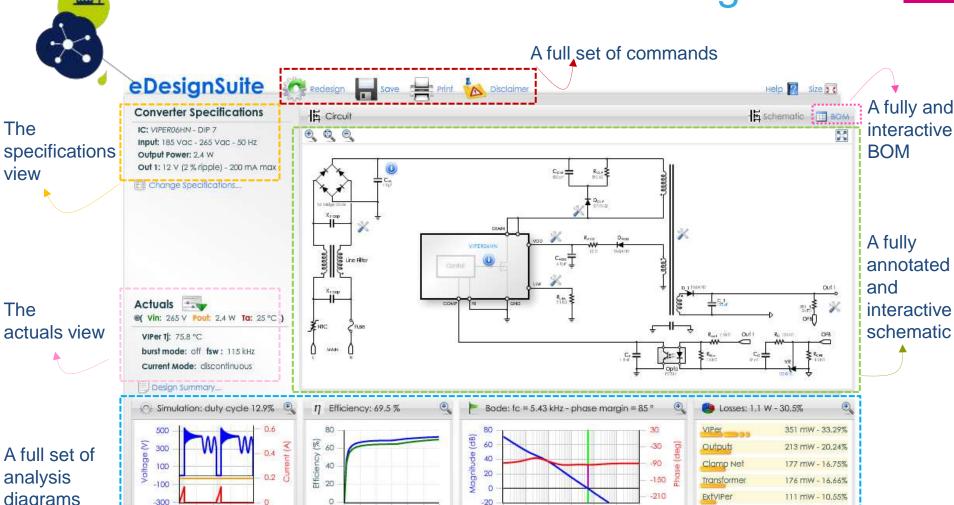
Input Stage

100 1k 10k 100k 1 M

Frequency (Hz)

14 mW - 1.37%

12 mW - 1.14%



A full set of analysis diagrams

4 8 12 16

Time (µs)

0 0.4 0.8 1.2 1.6 2 2.4

Output power (W)

The

view

The

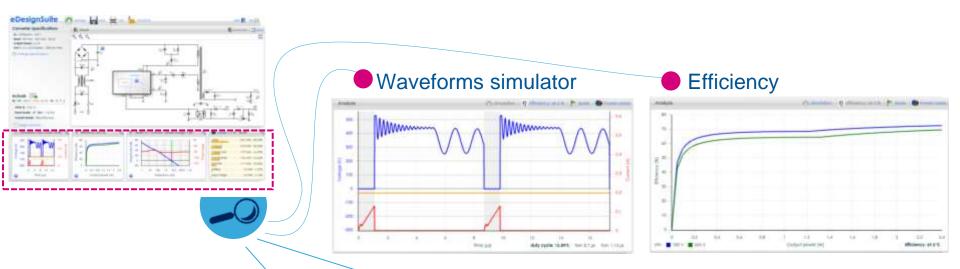




Main features



Evaluate the performance of your design



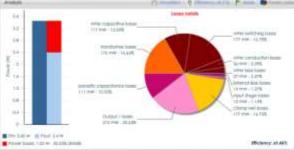
SIMULATIONS

The tool simulates major voltage and current waveforms, efficiency analysis, displays bode and power losses

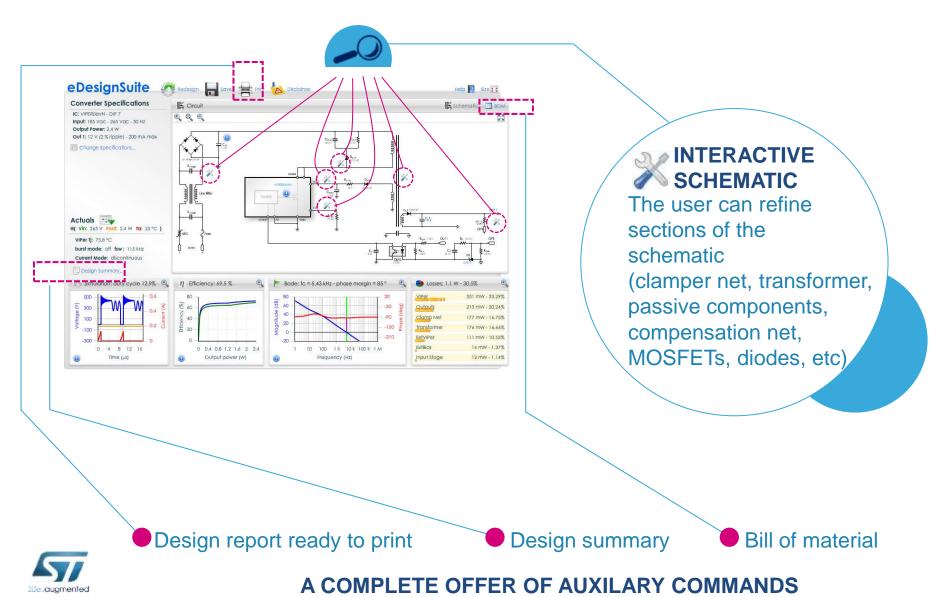




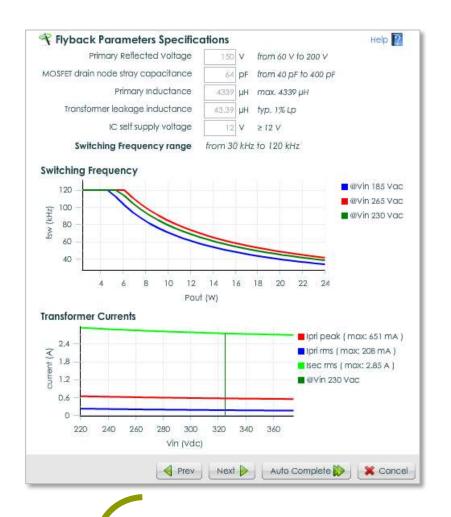




Complete and interactive schematic



Flyback specs and MOSFET selection 12









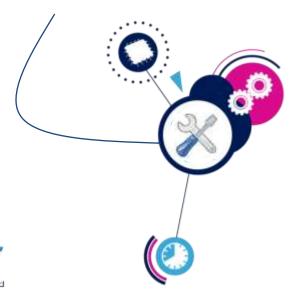


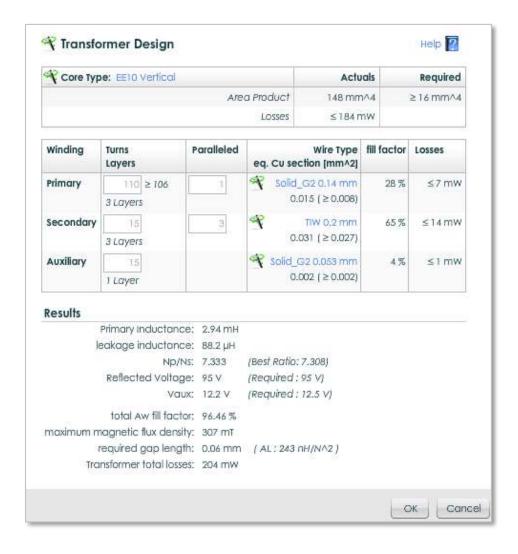
The transformer design

TRANSFORMER

You can change the proposed specifications for the transformer based on your needs

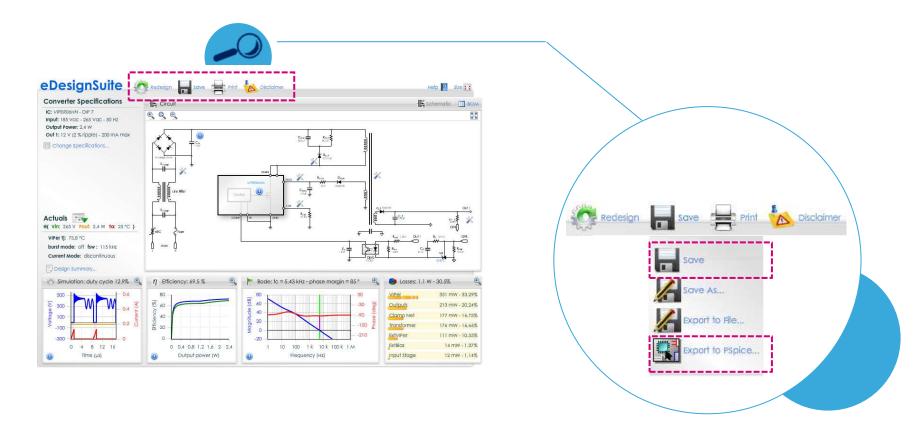
- Core type
- Turn layers of the windings
- Paralleled wires for each winding
- Wire type







Your design gets portable and exportable





Save

Save your project on *ST* server, you can open it from any machine: your design gets portable!

Export to Pspice

Create a Pspice netlist in order to perform a simulation of the design in the Cadence Orcad platform

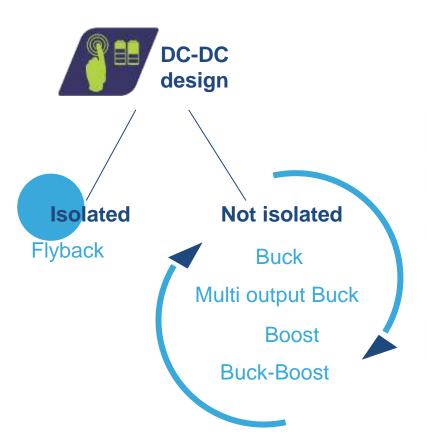




Supported applications



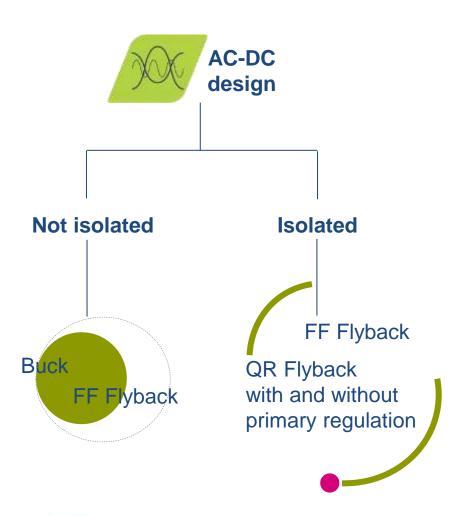
Power Supply DC-DC application type 16

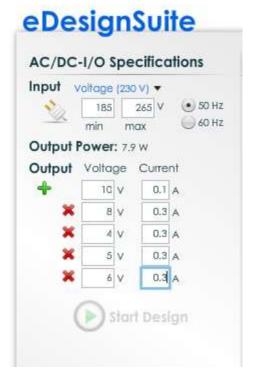






Power Supply AC-DC application type 17



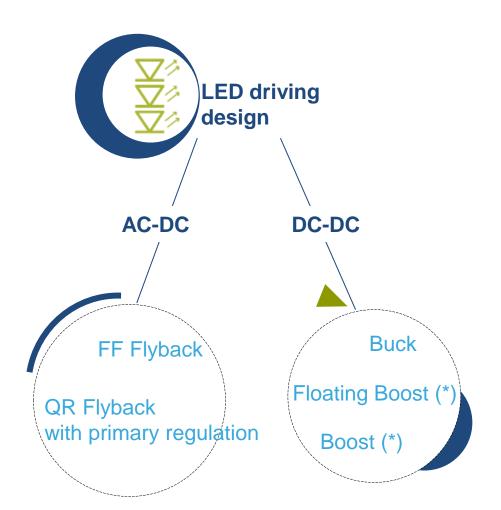


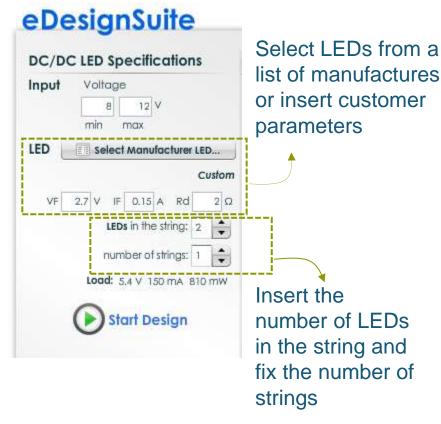
MULTI-OUTPUT DESIGN

The tool is able to manage until 5 outputs!



LED driving application type

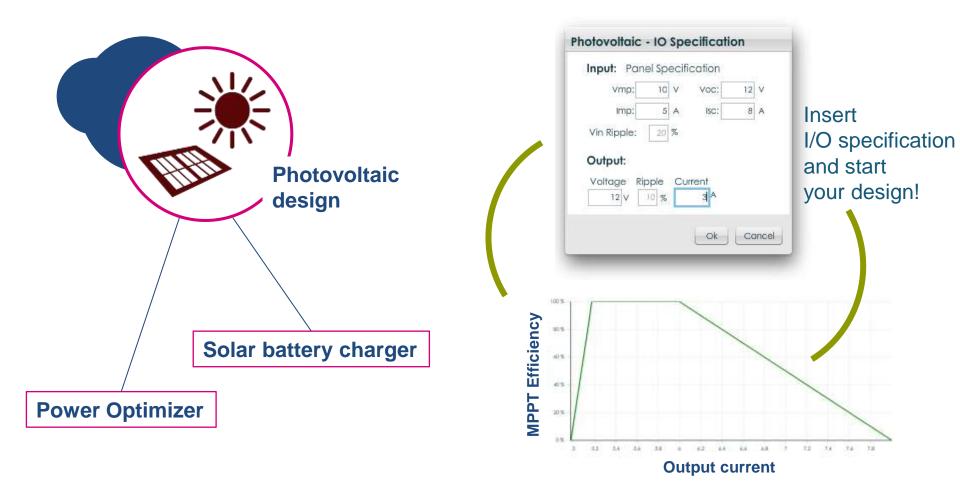






Supporting ICs for general illumination, consumer and vehicle lighting

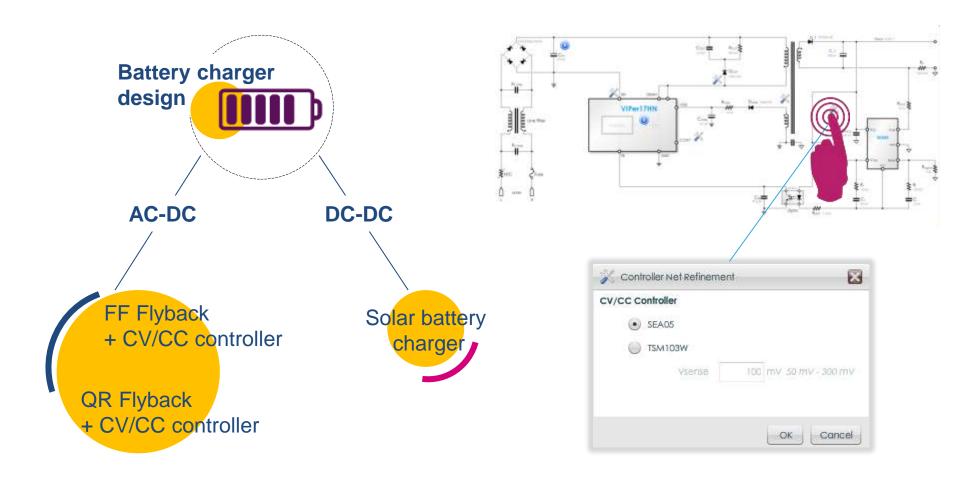
Photovoltaic application type





From the PV panel to your solar application with embedded **MPPT** (max power point tracking)

Battery charger application type





Tight voltage and current regulation for wide range of applications



For more information

www.st.com/edesignsuite



