

http://www.emcu.it/Analogica/STMAnalogWebSiteSupport.html

eDesignSuite The smart way to design your application









Overview

Main features

Supported applications





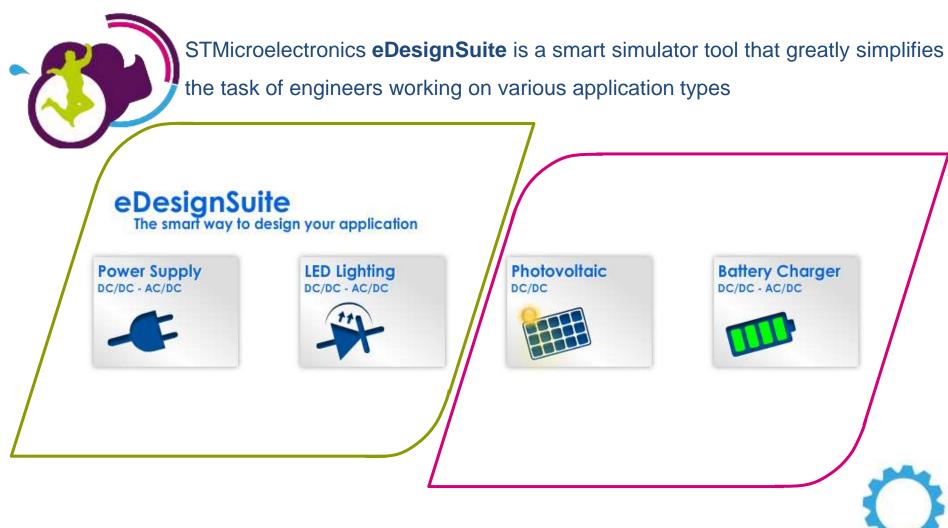


Overview





The application types supported ____



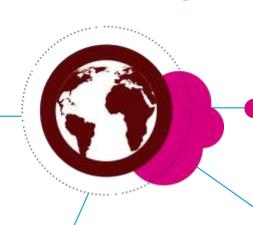


Connecting to eDesignSuite

Quick link

https://myst.com/analogsimulator/





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

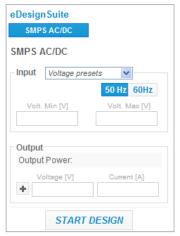
Application pages on ST website

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

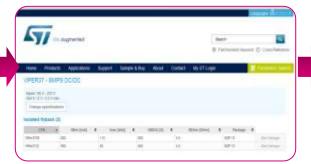


Open

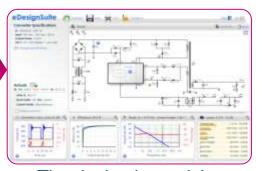
eDesignSuite off-line version
(ask to ST sales office)



Insert your I/O specifications in eDesignSuite Widget on product/application pages of ST web site



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

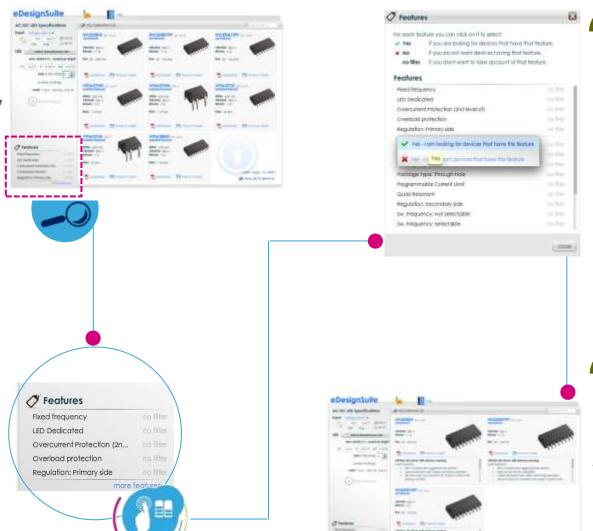
You can select,

suggested ICs,

only the ones

with specific

among the



3

More ICs features available

4

Start the design simulation with the filtered ICs



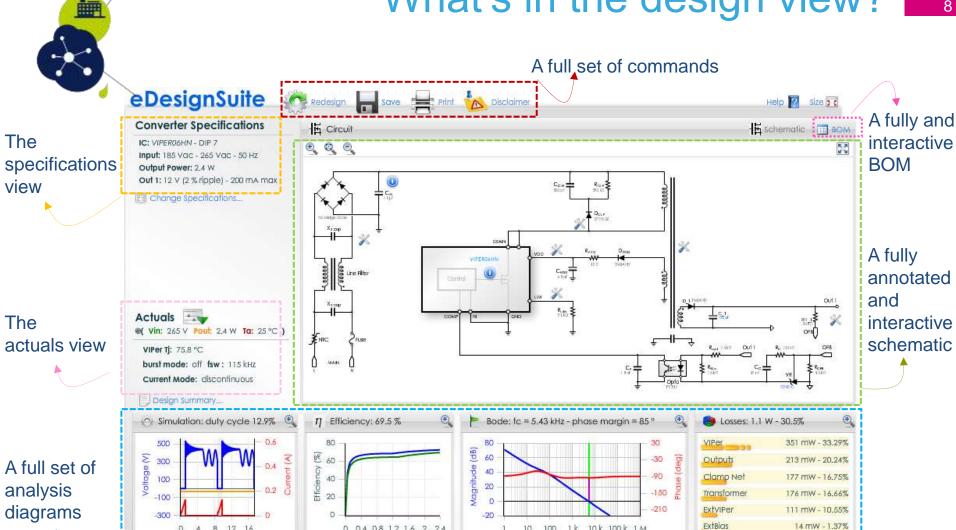
features

The

view

The

What's in the design view?



100 1k 10k 100k 1 M

Input Stage

12 mW - 1.14%

Frequency (Hz)

analysis diagrams

8 12 16

Time (µs)

0 0.4 0.8 1.2 1.6 2 2.4

Output power (W)



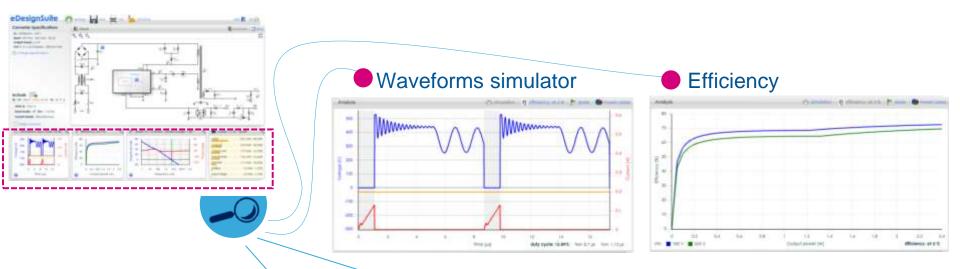


Main features



www.emcu.it

Evaluate the performance of your design



SIMULATIONS

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



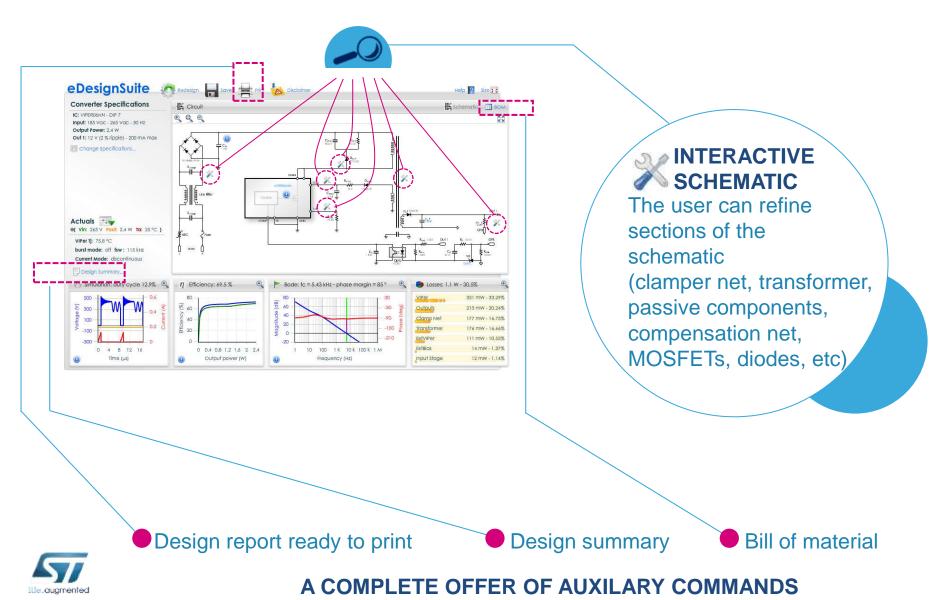


THE R. P. LEWIS CO. LEWIS CO., LANSING, May Rev.

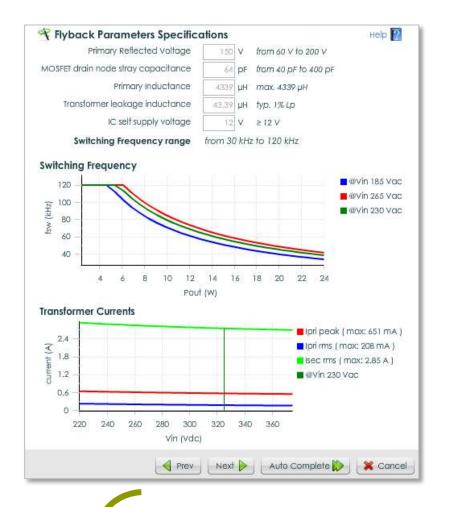




Complete and interactive schematic



Flyback specs and MOSFET selection 12











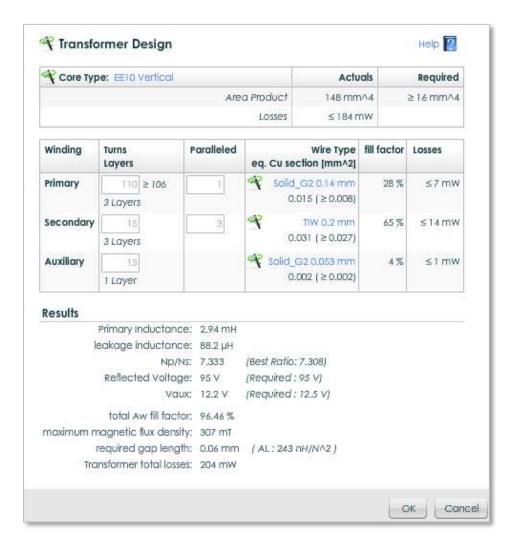
The transformer design

TRANSFORMER

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

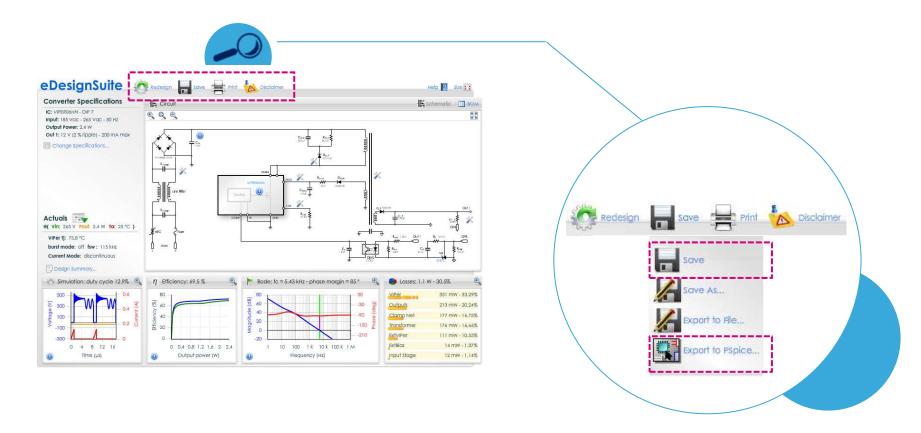
- Core type
- Turn layers of the windings
- Paralleled wires for each winding
- Wire type







Your design gets portable and exportable





Save

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



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

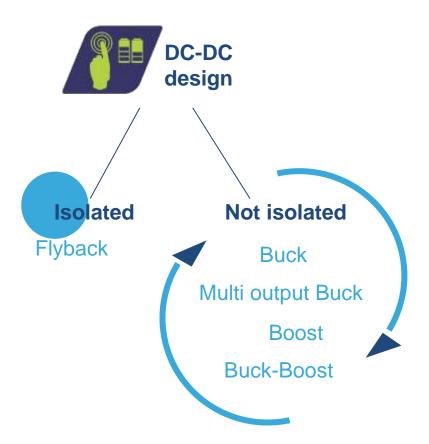




Supported applications



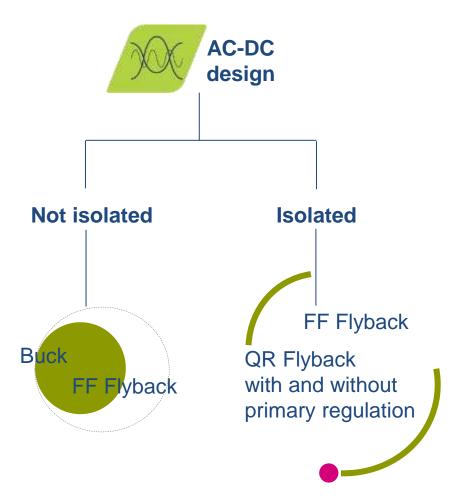
Power Supply DC-DC application type 16







Power Supply AC-DC application type 17



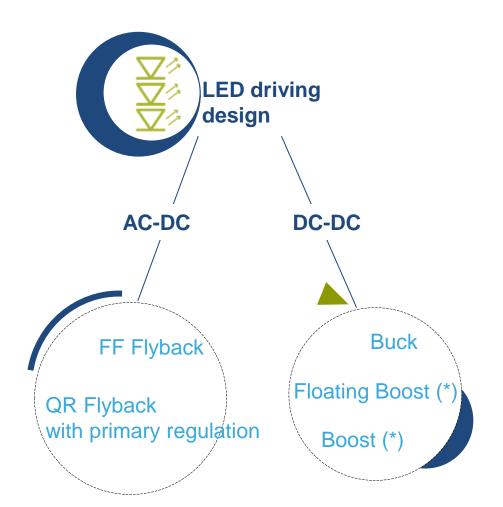


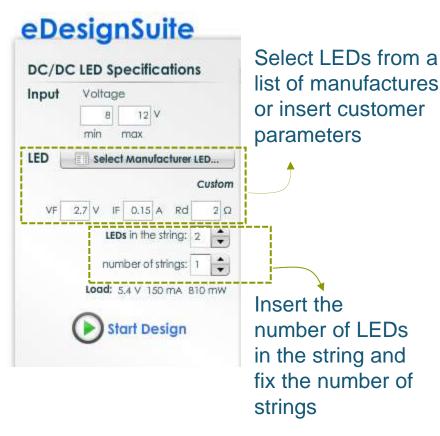
MULTI-OUTPUT DESIGN

The tool is able to manage until 5 outputs!



LED driving application type i

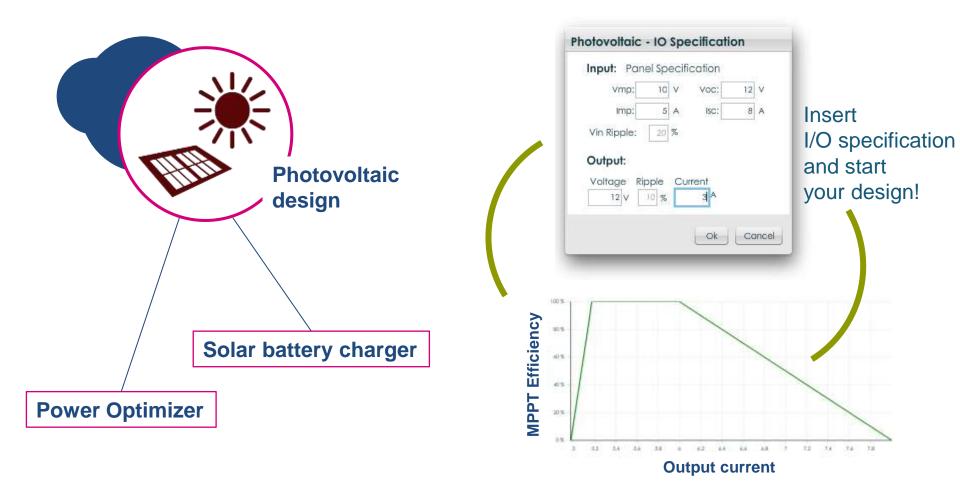






Supporting ICs for general illumination, consumer and vehicle lighting

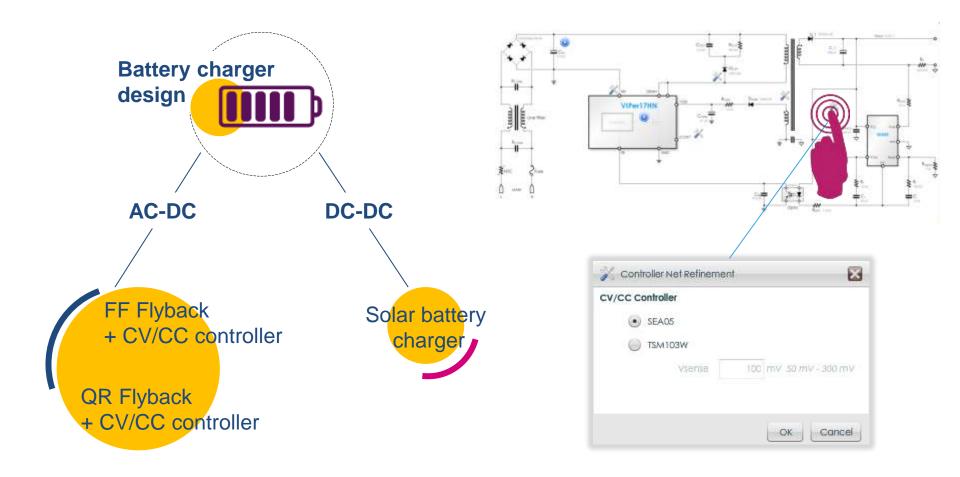
Photovoltaic application type





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

Battery charger application type





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For more information

www.st.com/edesignsuite



