Free On-line SMPS Design Tool

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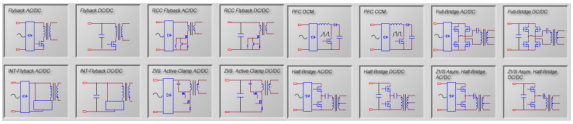
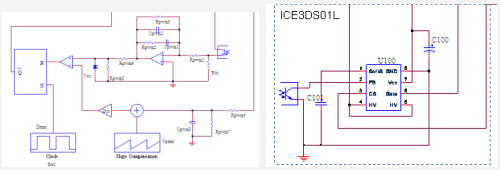
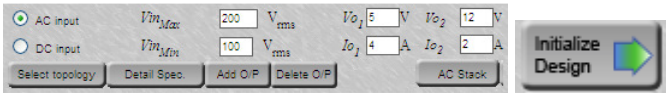
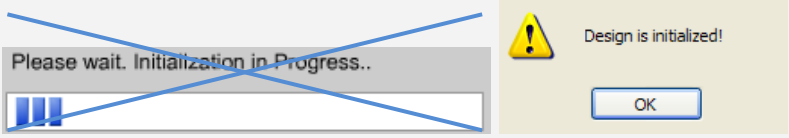
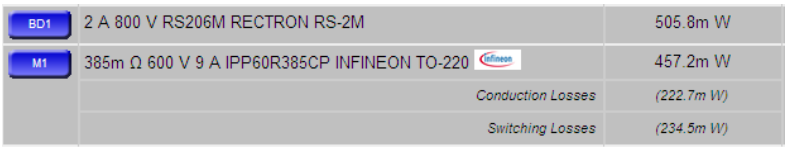
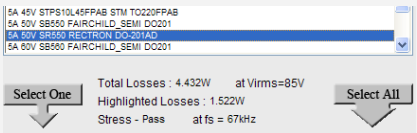
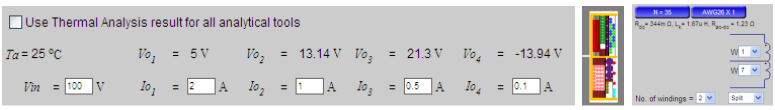
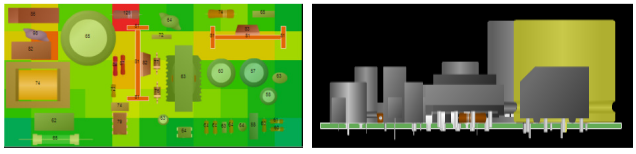
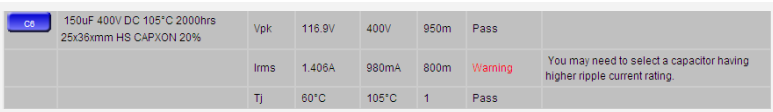
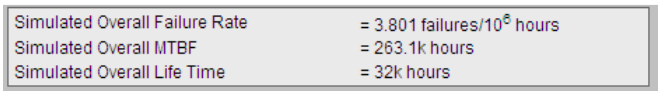
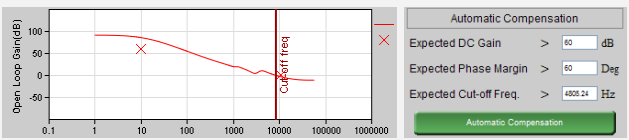
Design Steps	Getting Start with powerEsim	Details
Goto powerEsim.com		1) 10 Fully integrated analysis tools 2) Free and require no login. 3) Use free Sponsor Account to get advanced features.
Choose Topology		More than 30 topologies for any power, voltage, and current available to be chosen.
Then Choose PWM Block		Different manufacturer PWM controller circuit is provided. Generic PWM controller also provided for greatest feasibility.
Just Press Initialize Design		Only Input voltage, output voltage and current will be asked
Wait 0 Sec.		<0.01s for a full switching simulation with absolute convergence
Click Loss Analysis – ***Loss***		Click the blue component button to enter computer selection UI for choosing other component.
Start Optimize losses		By using ↑↓ key to select best component by it's own losses and stress shown.
Trim cross regulation – ***Magnetic Builder***		Build real transformer by real core, wire and tape for losses and regulation
Save & Load Your Design		Save this temporary design in user's own computer
Run Thermal Simulation ***Thermal***		Pick and place the well thermal modeled parts onto the PCB and click, thermal result will be know within 5s.
Check DVT Report ***DVT Report***		Check any reject, warning on any parts to make sure no over stress.
MTBF or Life ***Life & MTBF***		Ensure the quality by MTBF and Life of the power supply.
Finally Stabilize the loop ***Loop & Stability***		Trim the loop stability by changing circuit value or simple press "Automatic Compensation"

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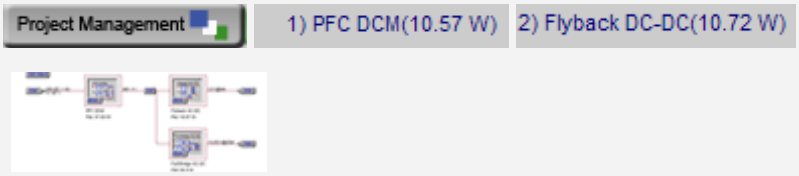
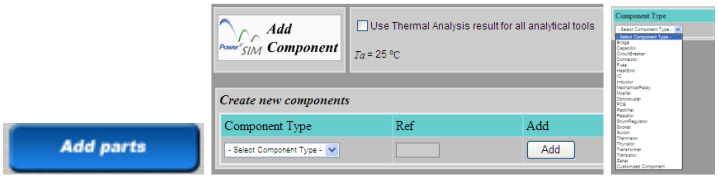
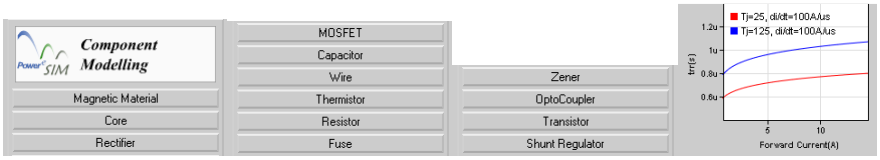
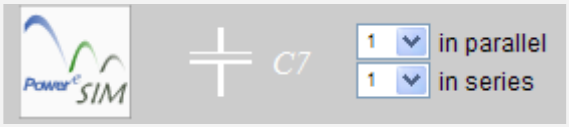
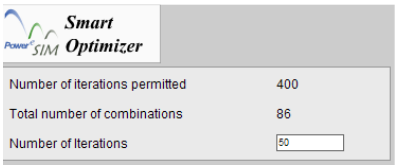
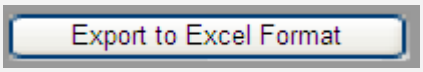
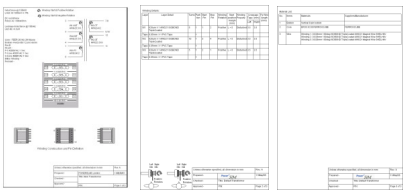
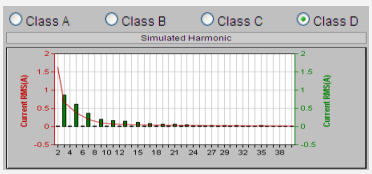
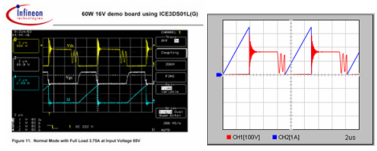
Features	Advanced features of powerEsim	Details
Project Management		User can build complex power supply by using a group of single power supply.
Add Parts		User can add extra parts in their BOM for thermal, MTBF or DVT analysis.
Component Data Base		More than 130,000 Components are electrically and thermally modeled.
Build Custom Component *Component Builder*		User can build their own component database by using our non-linear modeling module.
Series or Parallel Components		Component can be connected in series or in parallel.
Loss optimization		Smart Optimizer will perform GA optimization for losses against a data pool of different component chosen.
Export Report		Export Excel format for documentation.
Transformer Drawing		Transformer drawing is automatically generated to save engineer resource. Customize drawing is also possible.
Input Harmonic Current *Harmonic*		Check Input Harmonic Current Content comply with international standard
Accuracy		Proven bench accuracy by experiment and engineer from power supply manufacturer.