



IPOSIM - Getting started guide

November 2023



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IPOSIM is Infineon's online simulation platform for loss & thermal calculations of Infineon power modules, discrete and disk devices.



IPOSIM helps you to select the most suitable Infineon's high power product according to the needs of your application.

Main Features

- › **User-friendly flow**, designed to guide you step by step in simulating with power devices
- › Fast online simulation **powered by PLECS®**
- › **More than 25 topologies** for discs and modules available, clustered by power conversion type
- › **Gate Driver recommendations** based on simulated components and application conditions with module topologies
- › **Multi-selection of up to 5 Infineon products** for performance comparison
- › Save and Share designs within your team using **deep-link**.

3 types of simulation offered:



Steady-state simulation

Power and thermal calculation of a single cycle



Load cycle simulation

Power and thermal calculation of multiple operating points



Lifetime estimation (LTE)

Expected lifetime calculation based on chosen parameters



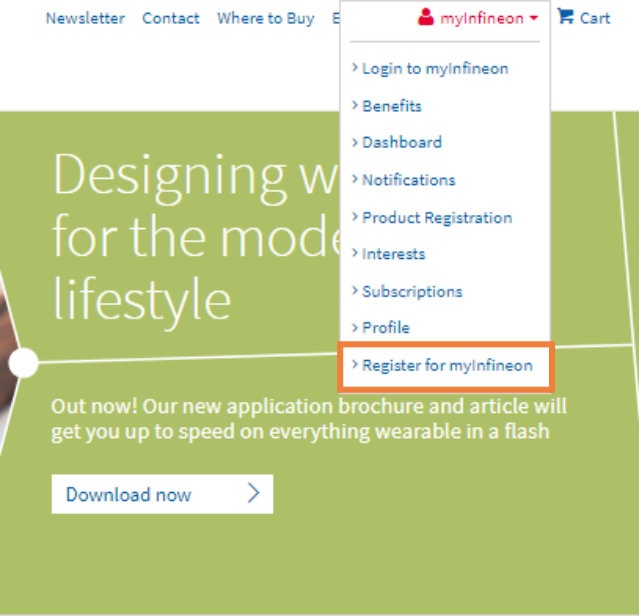
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Start by setting up a myInfineon account in 3 easy steps

Step 1

In www.infineon.com click on the upper right corner “myInfineon” and select the option “Register for myInfineon”



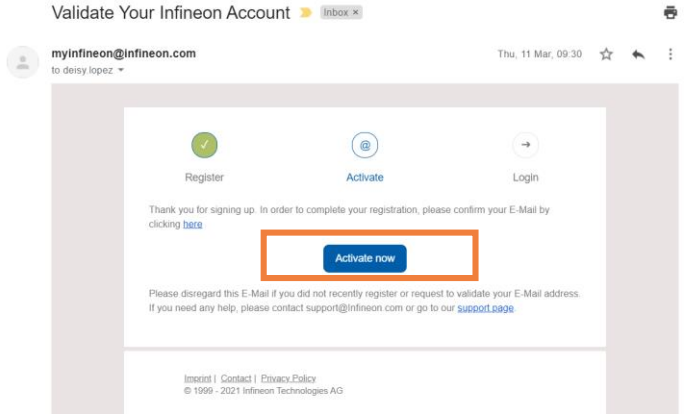
Step 2

Fill out the form

The screenshot shows the 'myInfineon registration' form. At the top, it says 'Register now and enjoy the benefits of myInfineon' with icons for Valuable Content, Integrated Services, and Personalized Experience. The form fields are: First name, Last name, Company, Country/Territory (set to Germany), Company E-mail, and Password. Below the password field are icons for password requirements: Uppercase, Lowercase, Digit, Special character, and 10 characters. At the bottom, there is a 'Stay Informed!' checkbox and a 'Create Account' button.

Step 3

An email will be sent out to activate your account. Please click on the link and finalize registration

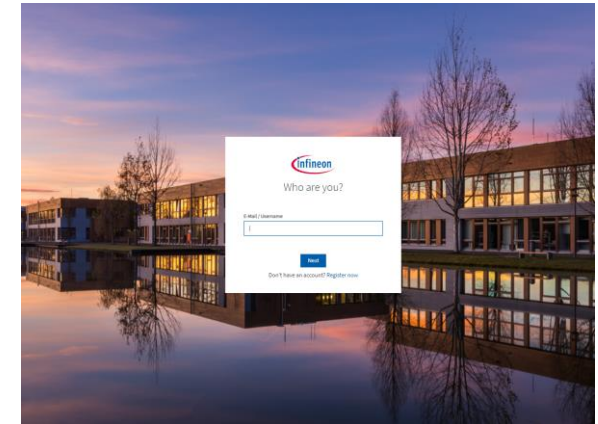
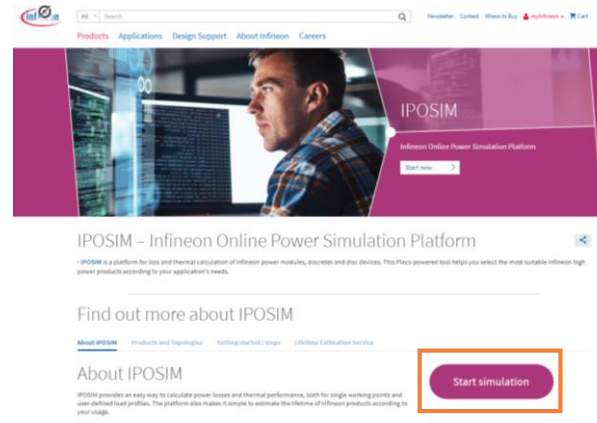


With your new myInfineon account, log into IPOSIM and follow the steps for your simulation.



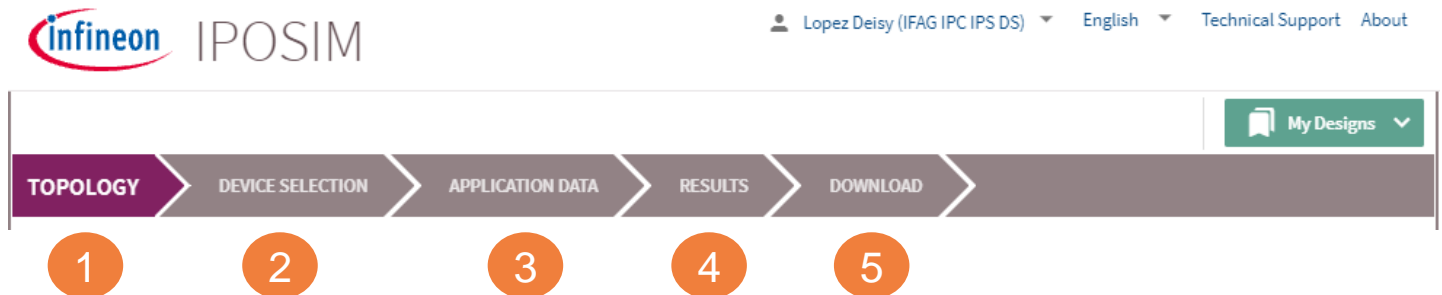
Log into IPOSIM

Go to www.infineon.com/IPOSIM and click on “Start Simulation”
You will need to log into myInfineon account.



Follow the process in IPOSIM

IPOSIM guides you through the set up of your simulation. In the following pages you will find more information about every step.



Step 1: Select your preferred topology

The screenshot shows the IPOSIM - Infineon Power Simulation web application. The navigation bar includes 'TOPOLOGY', 'DEVICE SELECTION', 'APPLICATION DATA', 'RESULTS', and 'DOWNLOAD'. A 'Lifetime Estimation Service' banner is visible, indicating it is activated. The main content area is divided into four sections: AC/DC Applications, AC/AC Applications, DC/DC Application, and DC/AC Applications. An orange callout box labeled 'Example: Inverter topologies' points to the DC/AC Applications section, which lists various inverter topologies such as 'Single Phase (Module)', 'Three Phase - 2 Level (Module)', and 'Three Phase - 3 Level NPC1 (Module)', many of which include a 'Lifetime Estimation' icon.

IPOSIM offers **more than 25 different topologies** to choose from, clustered according to the power conversion type.

Step 2: Choose Your Devices

Current Design: My Designs

TOPOLOGY
DEVICE SELECTION
APPLICATION DATA
RESULTS
DOWNLOAD

Parameter Selection

DC Link Voltage (Vdc) V

Blocking Voltage V

Rated Current A

Filter by Packaging

DC/AC Applications - Three Phase - 2 Level (Module)

Circuit topology

Please select device to go to next step

Selected parts:

| | Device Name | TIM | Package | module Parameters | | Switch parameters | | | | Diode Parameters | | | | |
|--------------------------|----------------|-----|---------|---------------------------------------|--|--|---|---------------------------|-------------------------|---------------------------|-------------------------------|---------------------------|-------------------------|-------------------|
| | | | | V _{CES} /V _{DS} [V] | I _{com} /I _{nom} [A] | V _{CESat, 125°C} /V _{DSsat, 125°C} [V] | E _{on} + E _{off, 125°C} [mWs] | R _{th, JH} [K/W] | T _{vjmax} [°C] | V _{F, 125°C} [V] | E _{rec, 125°C} [mWs] | R _{th, JH} [K/W] | T _{vjmax} [°C] | Datasheet |
| <input type="checkbox"/> | FF50R12RT4 | | 34mm | 1200 | 50 | 2.15 | 10.5 | 0.61 | 150 | 1.65 | 3.2 | 0.97 | 150 | 📄 |
| <input type="checkbox"/> | FF50R12RT4_B8 | | 34mm | 1200 | | | | | | 1.65 | 2.67 | 1.1 | 150 | 📄 |
| <input type="checkbox"/> | FP50R12KT4 | | Econo2 | 1200 | | | | | | 1.65 | 3 | 1.25 | 150 | 📄 |
| <input type="checkbox"/> | FP50R12KT4_B11 | | Econo2 | 1200 | | | | | | 1.65 | 3 | 1.25 | 150 | 📄 |
| <input type="checkbox"/> | FP50R12KT4_B16 | | Econo3 | 1200 | 50 | 2.15 | 12 | 0.69 | 150 | 1.65 | 3 | 1.03 | 150 | 📄 |

a) Filtering parameters

b) Quick search

Product list with sorting function

IPOSIM offers filtering by parameters (a) and a quick search option (b) in the product list.

You can select **up to 5 devices at the same time**, which allows you to compare their performance.

Step 3: Set Your Application Data

The screenshot shows the 'APPLICATION DATA' configuration screen. At the top, a progress bar indicates the current step. Below it, the 'Simulation Type' is set to 'Steady-State'. The 'Advanced Parameters' tab is active, displaying a 'Parameter Selection' table with the following values:

| | |
|-----------------------|---------------|
| Modulation Algorithm | Sine-Triangle |
| DC Link Voltage (Vdc) | 650 V |
| Output Current (Iout) | 50 Arms |
| Output Frequency | 50 Hz |
| Switching Frequency | 2000 Hz |
| Modulation Index | 1 |
| Power Factor cos(φ) | 0.8 |
| Load Type | Lagging |

Below the table is a circuit diagram of a three-phase inverter with labels for V_{DC}, I_{2/D2}, I_{out}, and V_{out}.

Simulation type selection

c) Set other application data:
 • cooling condition
 • Rgon,off

b) Set operation parameters

- a) You can select the type of simulation to use, **Steady state** for simulating a single working point, **Load cycle** for simulating a user defined load profile or **Lifetime Estimation***
- b) Set the desired operating parameters
- c) In the next tabs you can set cooling conditions and values for gate resistance.

*Lifetime Estimation is currently available for the topology: Three-phase Two-level

Step 4: Compare Simulation Results

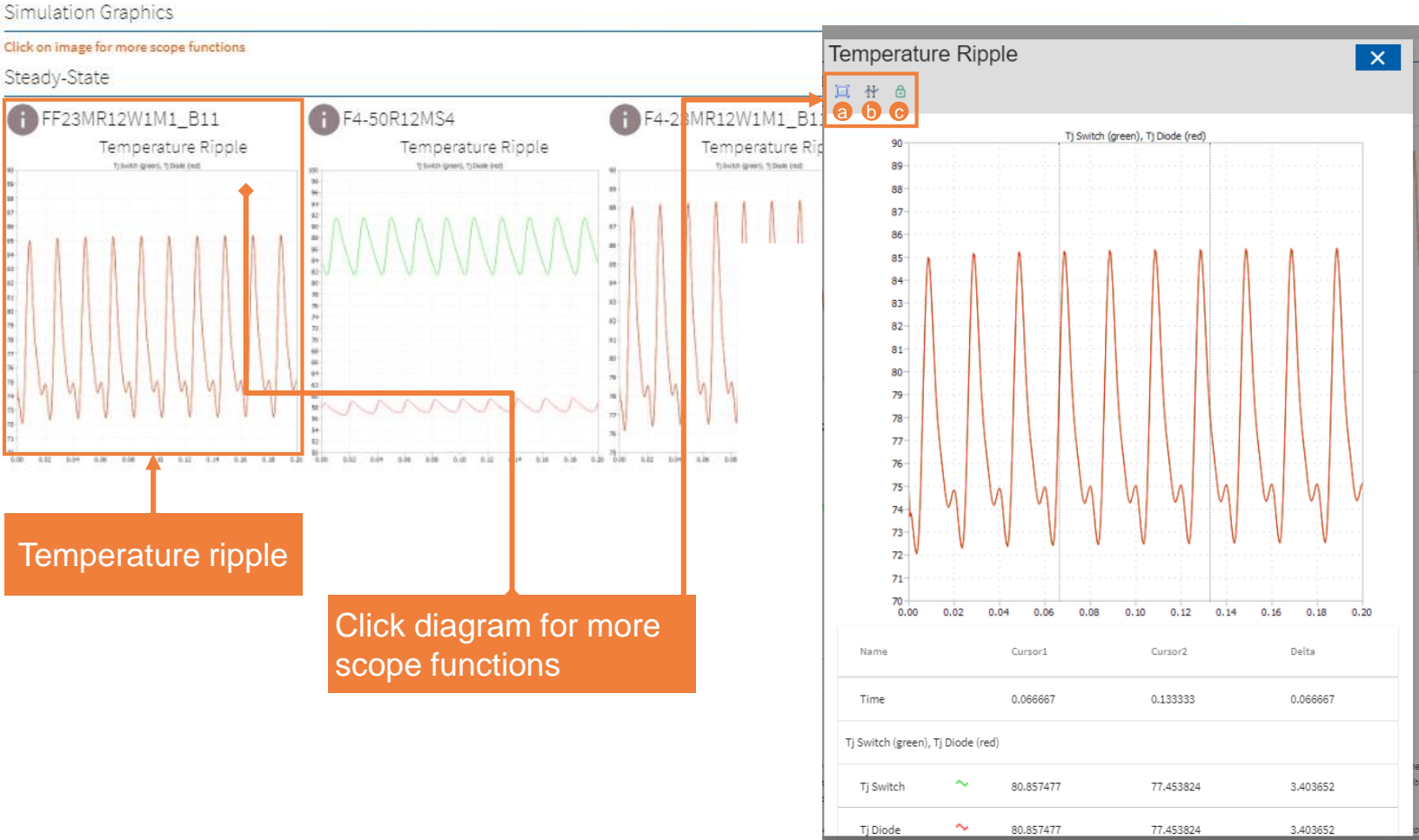
Modules/Discs

| Steady-State Analysis finished: Wed Oct 20 17:08:24 2021 | | Steady-State Analysis finished: Wed Oct 20 17:08:27 2021 | | Steady-State Analysis finished: Wed Oct 20 17:08:30 2021 | | Steady-State Analysis finished: Wed Oct 20 17:08:33 2021 | |
|--|----------------|--|---------|--|----------------|--|---------|
| FF23MR12W1M1_B11 | | F4-50R12MS4 | | F4-23MR12W1M1_B11 | | F4-50R12KS4_B11 | |
| MOSFET Parameters | ▼ | Switch parameters | ▼ | MOSFET Parameters | ▼ | Switch parameters | ▼ |
| Diode Parameters | ▼ | Diode Parameters | ▼ | Diode Parameters | ▼ | Diode Parameters | ▼ |
| Cooling Condition | ▼ | Cooling Condition | ▼ | Cooling Condition | ▼ | Cooling Condition | ▼ |
| Simulation Results | ^ | Simulation Results | ^ | Simulation Results | ^ | Simulation Results | ^ |
| Maximum Junction Temperature | | Maximum Junction Temperature | | Maximum Junction Temperature | | Junction Temperature | |
| Switch | 85.41°C | Switch | 91.54°C | Switch | 88.48°C | Switch | 88.48°C |
| Diode | 85.41°C | Diode | 59.82°C | Diode | 88.48°C | Diode | 59.56°C |
| Switching Losses | | Switching Losses | | Switching Losses | | Switching Losses | |
| Switch | 0.60W | Switch | 7.65W | Switch | 0.54W | Switch | 7.19W |
| Diode | Not calculated | Diode | 1.71W | Diode | Not calculated | Diode | 0.94W |
| Conduction Losses | | Conduction Losses | | Conduction Losses | | Conduction & Switching Losses | |
| Switch | 33.78W | Switch | 89.51W | Switch | 34.22W | Switch | 41.77W |
| Diode | Not calculated | Diode | 7.22W | Diode | Not calculated | Diode | 12.2W |
| Total Losses | | Total Losses | | Total Losses | | Total Losses | |
| Switch | 34.37W | Switch | 77.15W | Switch | 34.76W | Switch | 76.86W |
| Diode | Not calculated | Diode | 8.92W | Diode | Not calculated | Diode | 8.86W |
| FF23MR12W1M1_B11 | | F4-50R12MS4 | | F4-23MR12W1M1_B11 | | F4-50R12KS4_B11 | |

The section Modules/Discs displays among others the calculated values for maximum junction temperature, switching and conducting losses.

Is presented in a way that allows you to compare between various selected devices.

Step 4: Compare Simulation Results



In **Simulation Graphics** you can view and inspect the temperature ripple resulting from operating the selected devices under specified working point.

Click on the diagram for more scope functions like:

- a) Zoom-in by dragging with mouse
- b) Switch on cursors to measure signals
- c) Freeze the cursor distance for better measurement experience

New! - Gate driver recommendations

Power Module Selection

Gate Driver recommendations for
FF100R12RT4

10 out of 452 selected

Go to Gate Driver Finder

Gate Driver recommendation

1EDN7550U
1-channel non-isolated gate-driver IC family with truly differential inputs

1ED160N12AF
1200 V single-channel gate driver with separate output and short circuit clamping

1EDN7511B
Rugged, cool and fast, 1-channel low-side 4/8A gate driver ICs

1EDN7550B
1-channel non-isolated gate-driver IC family with truly differential inputs

1ED3122MC12H
10 A, 5.7 kv (rms) single-channel isolated gate driver with active miller clamp, UL 1577 & VDE 0884-11 certified, 8 V UVLO

Input Requirements

| | |
|---------------------|------------|
| Input Voltage | 300 V |
| Output Voltage | 600 V |
| Blocking Voltage | 1200 V |
| Output Voltage | 600 V |
| Duty Cycle | 0.5 |
| Rated Current | 100 A |
| Output Current | 50 A |
| Mode | Continuous |
| Input Inductance | 0.001 H |
| Switching Frequency | 2000 Hz |

DC/DC Application - Boost (Module)

Simulation Results

| Maximum Junction Temperature | Maximum Junction Temperature | Maximum Junction Temperature |
|------------------------------|------------------------------|------------------------------|
| Switch: 90.18°C | Switch: 94.67°C | Switch: 107.17°C |
| Diode: 85.29°C | Diode: 107.60°C | Diode: 119.14°C |
| Switching Losses | Switching Losses | Switching Losses |
| Switch: 33.73W | Switch: 29.83W | Switch: 34.07W |
| Diode: 6.43W | Diode: 8.78W | Diode: 8.41W |
| Conduction Losses | Conduction Losses | Conduction Losses |
| --- | --- | --- |

Under **Gate Driver recommendations** you can scroll down and see a preselection of Gate Driver devices suitable for your specific simulation parameters and selected power devices.

a) Click on the drop down list to select another power module used in the simulation.

b) Click on the tab 'View All' to redirect to Infineon's Gate Driver Finder for further support on your design.

Step 5: Download Results and Share Design

infineon IPOSIM

Lopez Deisy (IFAG IPC IPS DS) English Technical Support About

Current Design: DC/AC Applications - Single Phase (Module)

TOPOLOGY DEVICE SELECTION APPLICATION DATA RESULTS **DOWNLOAD**

Previous Next

Design Summary

Complete Design Summary

Design Summary

Datasheets

FF23MR12W1M1_B11
 F4-50R12MS4
 F4-23MR12W1M1_B11
 F4-50R12KS4_B11

Datasheets

Previous Next

My Designs

In the last step, you can download the simulation results in a excel file format as shown in the **Design summary** section.

You can also find the data sheets of selected devices for your detailed analysis and decision making.

You can also Save your design by clicking (a). You will find the design information by clicking

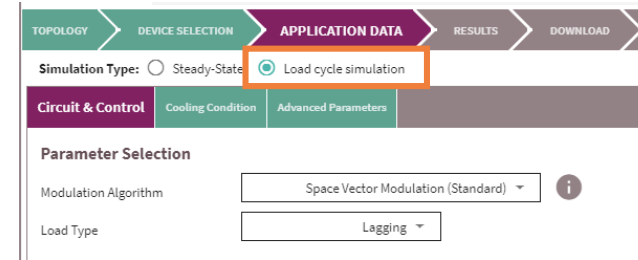
Share your design by clicking (b). The page link will be copied to your clipboard, so you can share it with anybody to re-execute the simulation with same configuration. See an example [here](#).

Load Cycle Simulation

Load Cycle: upload your desired mission profile

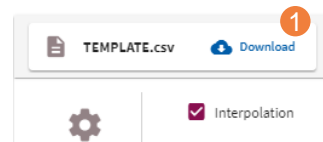
1. Select Load Cycle as simulation type

In the Application Data step select the option: **Load cycle simulation**



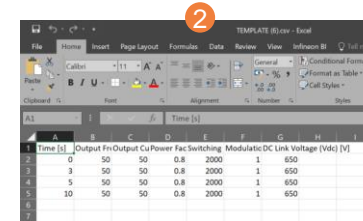
2.a. Use the excel format

1) Download the CSV template

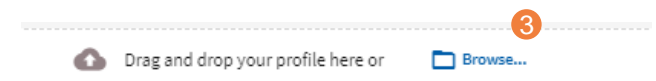


2) Fill out the template and save the document

Input decimals using a dot



3) Upload the CSV file, or drag and drop the file.



2.b. Use directly the table available online

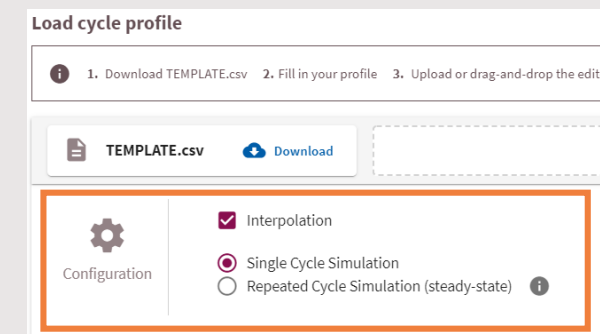
Insert your desired mission profile values directly on the table displayed in IPOSIM

| | Time [s] | Output Frequency [Hz] | Output Current [out] [Arms] | Power Factor cos(φ) | Switching Frequency [Hz] | Modulation Index | DC Link Voltage [Vdc] [V] |
|---|----------|-----------------------|-----------------------------|---------------------|--------------------------|------------------|---------------------------|
| 1 | 0 | 1.5 | 0.1 | 0.9 | 4000 | 1 | 680 |
| 2 | 0.02 | 1.5 | 310.5 | 0.9 | 4000 | 1 | 680 |
| 3 | 2 | 60 | 310.5 | 0.9 | 4000 | 1 | 680 |
| 4 | 2.02 | 60 | 207 | 0.9 | 4000 | 1 | 680 |
| 5 | 30 | 60 | 207 | 0.9 | 4000 | 1 | 680 |
| 6 | 30.02 | 1.5 | 0.1 | 0.9 | 4000 | 1 | 680 |
| 7 | 60 | 1.5 | 0.1 | 0.9 | 4000 | 1 | 680 |

Load Cycle: upload your desired mission profile

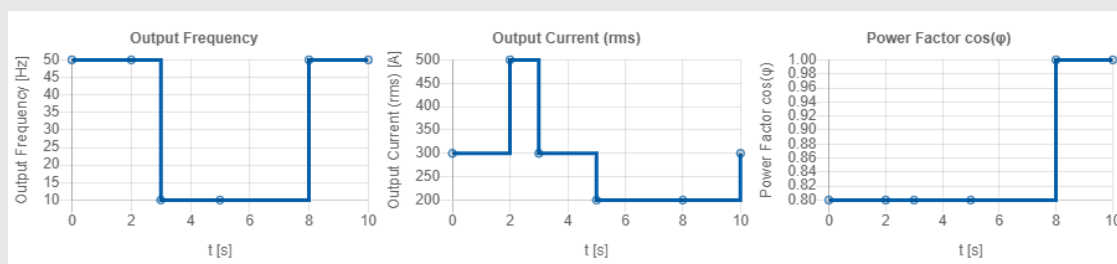
More Load Cycle features

- › Selection simulation behavior between temperature ripple or average temperature
- › Interpolated or discontinuous load profiles available
- › Possibility to repeat the load profile cycles (up to 10 cycles)

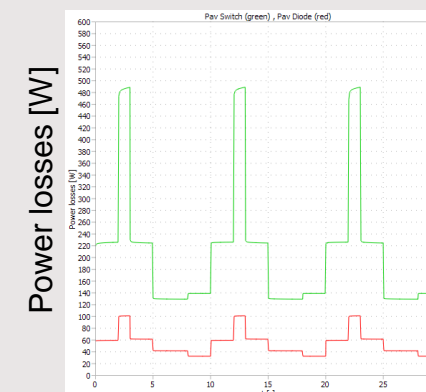
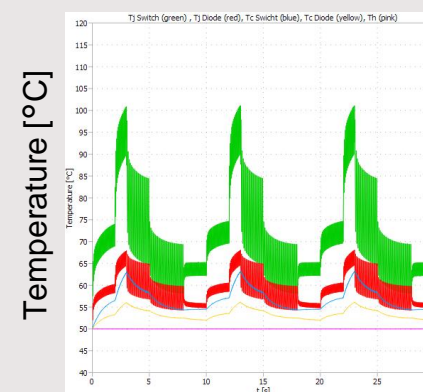


Load Cycle Example: DC-AC 3-Phase 2-Level

- › Constant inputs: $V_{DC} = 650$ V, $f_{sw} = 2$ kHz, Modulation Index = 1
- › Load Profile with 3 cycles repeated
- › Click [here](#) to recall the simulation in IPOSIM.



Simulation Results

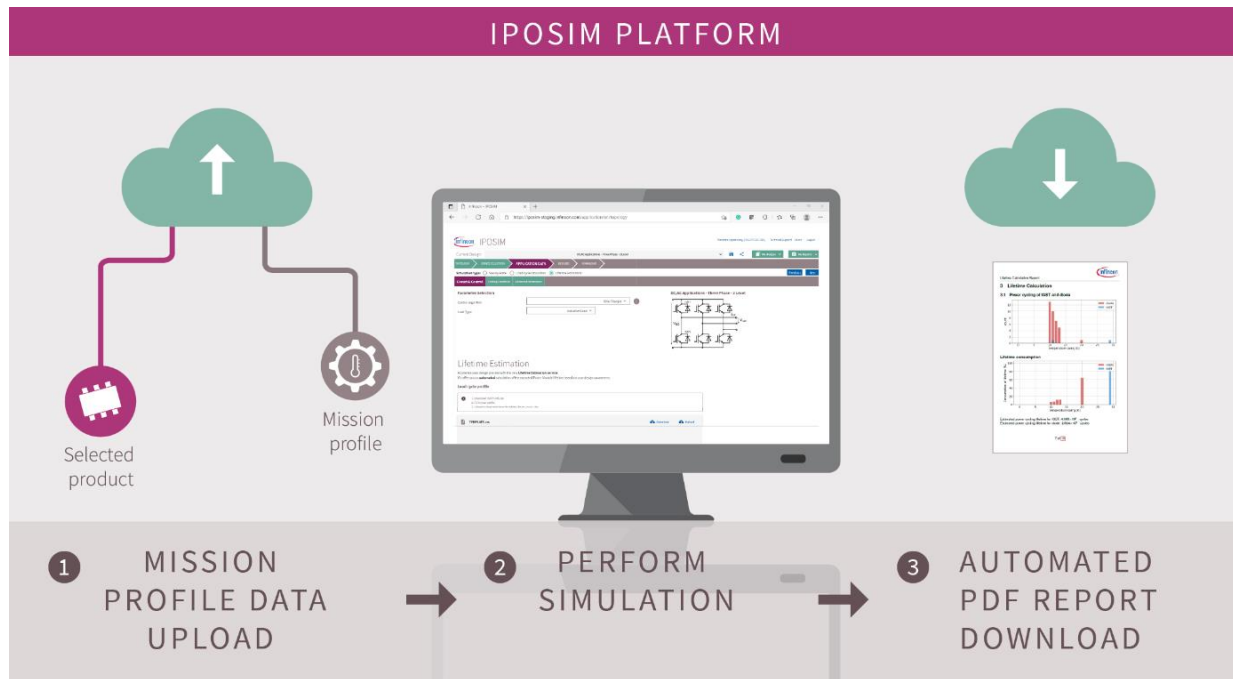


Lifetime Estimation service

Lifetime Estimation service provides online access to Infineon's unique know-how to ease your design process



Automated Lifetime Estimation service:



Digitally estimate the lifetime of IFX modules in your application.

Once logged into IPOSIM, **1** select an Infineon power module and upload your desired mission profile. Considering this information, **2** IPOSIM will perform the lifetime estimation. Once the calculations finalize, **3** you can download the report, including the possible number of cycles for the selected device ([see report sample](#)).

24/7 Access to unique know-how



- › Algorithm and models based on Infineon's unique device knowledge and decades of experience performing such estimations.
- › Designed for both short and long profiles for the **Single Phase, Three-phase Two-level, NPC1 / NPC2 (Module) and ANPC topologies** (More topologies to come).
- › New! - Simulation with **output frequency of 0 Hz is now supported**
- › Available online as a premium service of IPOSIM

Save time and effort in your design process



- › Fully automated online simulation
- › Accessible **whenever and as many times as needed**
- › Dedicated server enabling execution of **parallel simulations**
- › Generated PDF report designed for simple analysis and documentation

For detailed information about Lifetime Estimation please visit our [Infopage](#). Here you can find our latest videos:

Lifetime Estimation Service

IPOSIM Lifetime Estimation service is the new online simulation that enables you to digitally estimate the lifetime of Infineon power modules in your application.

Complement your design process with the first automated lifetime estimation simulation on the market. Its algorithm and models are based on Infineon's unique device knowledge and decades of experience performing such estimations for significant players in the industrial sector.

Main Features



Access unique semiconductor expertise

- Available online as a premium service of IPOSIM
- Designed for both short and long profiles for the Single-phase and Three-phase Two-level topology (More topologies to come)
- Enabled for Infineon power modules (Automotive modules and other products to come)
- New! Simulation with output frequency of 0 Hz is supported



Save time and effort in your design process

- Fully automated online simulation accessible whenever and as many times you need it
- Dedicated server allowing the execution of parallel simulations
- Generated PDF report designed for simple analysis and documentation

How does IPOSIM Lifetime Estimation service work?

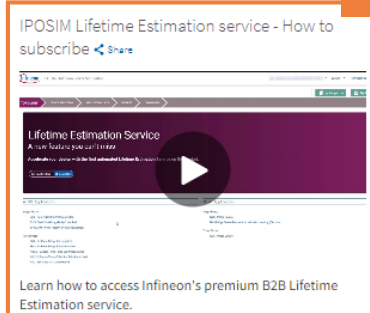
Once logged into IPOSIM, users select their Infineon power module and upload their desired mission profile. Considering this information, IPOSIM will perform the lifetime estimation. Once the calculations finalize, users can download the report, including the possible number of cycles for the selected device (see example report).

» For more information, please check the user manual with detailed explanations.



Start simulation

1) Subscription Process Video

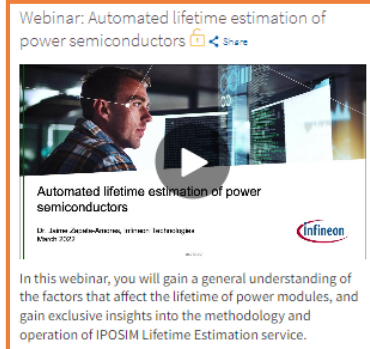


2) Demo video



The IPOSIM Lifetime Estimation online simulation platform for Infineon power modules in your application.

3) Webinar



Here you can find:

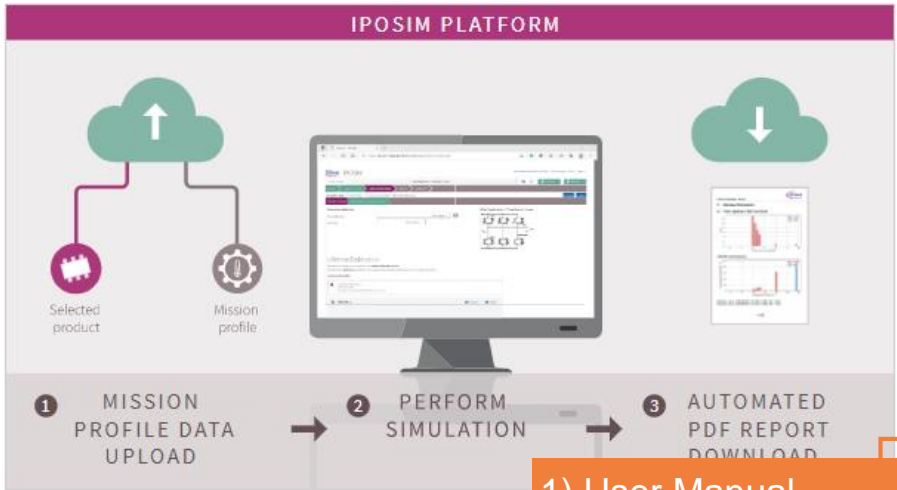
1. **Subscription Process video** on how to access Lifetime Estimation Service.
2. **Demo video** of Lifetime Estimation online simulation platform.
3. **Webinar** of the general factors that affect the lifetime of power semiconductors.

For detailed information about Lifetime Estimation please visit our [Infopage](#). Here you can find the most important documents:

Home > Tools > Infineon Tools > IPOSIM - Infineon Online Power Simulation Platform

Once logged into the IPOSIM, users select their Infineon power module and provide their desired mission profile. Considering this information, IPOSIM will perform the lifetime estimation. Once the calculations finalize, users can download the report, including the possible number of cycles for the selected device (see example report).

> For more information, please check the user manual with detailed explanations.



How to access IPOSIM Lifetime Estimation service
Lifetime Estimation is a premium (Business to Business) service for desig following subscription plans are available:

Subscription Plan

Select the Lifetime Estimation plan that works for you

- 1 Lifetime Estimation
- 5 Lifetime Estimations
- 10 Lifetime Estimations

The IPOSIM Lifetime Estimation online simulation platform for Infineon power modules in your application.

Webinar: Automated lifetime estimation of power semiconductors



In this webinar, you will gain a general understanding of the factors that affect the lifetime of power modules, and gain exclusive insights into the methodology and operation of IPOSIM Lifetime Estimation service.

Documents

- User Manual - Lifetime Estimation Service Platform
- Report Example
- Terms and Conditions IPOSIM Lifetime Estimation service
- Guide - How to Subscribe to IPOSIM Lifetime Estimation

- 1) User Manual
- 2) Report Sample
- 3) Terms and Conditions
- 4) Guide

Here you can find:

1. **User manual** of Lifetime Estimation service with detailed information about methodology and how to execute this simulation.
2. A **report sample** for users to inspect the results from the lifetime estimation simulation.
3. **Terms and Conditions** for the use of the Lifetime Estimation Service of Infineon IPOSIM Online Tool
4. A Step-by-step **Guide** of the subscription process of IPOSIM Lifetime Estimation service and some general FAQ's.

Lifetime Estimation simulations on the go, as often as needed during the design process. **Subscribe, pay and use, everything ONLINE**



✓ Log into IPOSIM, select your preferred **Subscription plan** and follow the instructions



Pay online and start using Lifetime Estimation service immediately!

1 Subscription Plan
2 Billing Information
3 Account Activation
4 Payment
5 Summary

1 Lifetime Estimation
€90.00
Highest flexibility
Valid for 3 months.
No automatic renewal
Select

5 Lifetime Estimations
-10%
€405.00
Most popular
Valid for 3 months.
No automatic renewal
Selected

10 Lifetime Estimations
-15%
€765.00
Best value
Valid for 3 months.
No automatic renewal
Select

FREE TRIAL | 1 Lifetime Estimation | Valid for 1 week | No payment method required

Cancel Continue

Not sure which plan?
Check out our **FREE TRIAL**

Required information: Company's registered name, address, ZIP, city, country.
Example: Infineon Technologies AG, Am Campeon 1-15
85579 Neubiberg, Germany

[Service Terms and Conditions apply](#)

Use Corporate credit card, or pay with WeChat and Alipay.
You will receive an official invoice for reimbursement purposes.

Infineon
Infineon Technologies AG
Am Campeon 1-15
85579 Neubiberg

Copy Page 1 of 2 Pages

| Item | Description of Goods/Service | Quantity | Unit Price | Pricing Unit | Item Price | Currency |
|------|--|----------|------------|--------------|------------|----------|
| 10 | Commodity code: AUXV NN ZUMR EDCN SMP Item Text | 1 | IPC | IPC | | EUR |

Carried Forward EUR

Your subscription was successful!

Dear [Name],

You are now subscribed to IPOSIM Lifetime Estimation service:

Subscription date: 06/08/2021

Your subscriptions:

Service: IPOSIM Lifetime Estimation Service - [Name]

Summary:

Subtotal: [Amount]
Value Added Tax: [Amount]
Total: [Amount]

This subscription is a one-time payment and will not be automatically renewed. An invoice will be sent to your email account in the following days.

Infineon Technologies AG shall provide your subscription in accordance with the IPOSIM Terms and Conditions attached to this email.

You accepted the IPOSIM Terms and Conditions when you submitted your order.

To learn more about how to use IPOSIM lifetime estimation service, go to your order [demo videos](#) or [FAQ](#).

Sincerely,
Your Infineon Community Team

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Parameter Sweep: Ploss, average / Tj versus Irms

Feature selection

With this feature you can find out the maximum allowed Irms current at given condition.

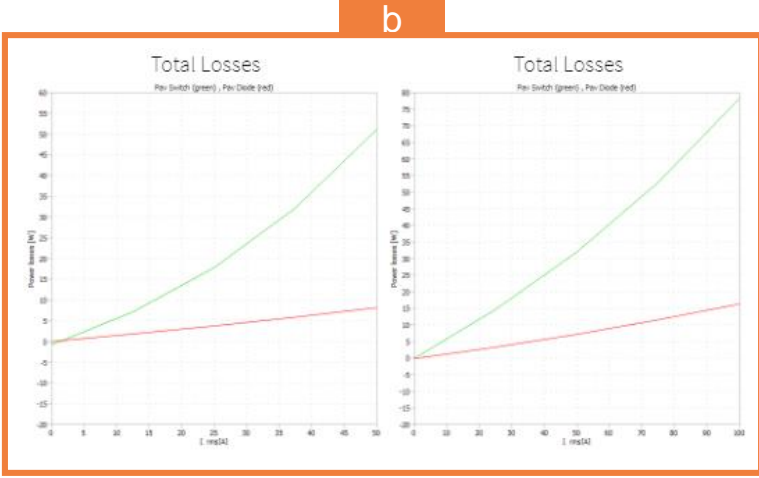
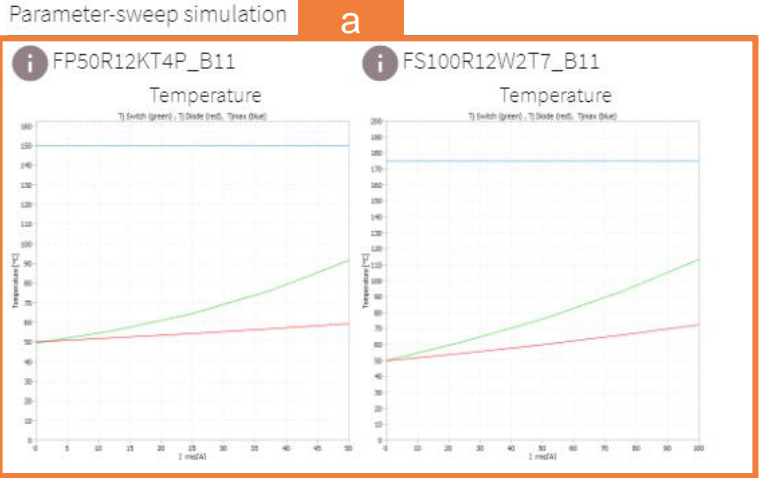
In the upper right corner of **Results** you can find a button (a) to simulate parameter-sweep. Just select Ploss, average/Tj vs current Irms option and click **Confirm**

Recal an example of this feature [here](#).

Available only for Steady State simulations

Results display

The results portray the Tj versus Irms at given condition (a) and the average power losses versus Irms at given condition (b).



Tips & Tricks

Low Output Frequencies

- › 0-Hz Simulation not implemented, down to 0.1 Hz available
- › Load cycle simulation: for more accuracy put enough duration of low frequency section, e.g.: minimum of 10s for $f_{out} = 0.1$ Hz

Save & Share

- › Save your designs under My Designs incl. load cycle settings
- › Copy / paste browser URL (deep-link) to share your designs

Result Diagrams

- › Click result diagrams to enlarge
- › Discover signals with scope functions such as cursors, zoom-in/out

Too High Tj

- › Our thermal models of the products are not designed for overheated Tj
- › In case of $T_j > 200$ °C, check your input requirements, cooling condition or change to a bigger module

Solve artifacts

- › browser caching issues after new version updates
 - key combination [Ctrl] + [F5] to reset browser cache
 - or manually clear the browser caching

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Support

For support and questions visit: www.infineon.com/support

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Support Page

Support is available in English, German and Mandarin from our talented team of experts.

Find an answer to your question

IPOSIM

Limitations of IPOSIM

Open "About" on the top right Menu bar. This shows you the limitation of every release. (Refer [screenshot](#))

Why is IPOSIM unstable? It was working before.

After a new release you have to reset your browser cache: Press keyboard combination Ctrl+F5 Goto Browser -> Settings -> Delete History & cache Restart your Browser

Design-in support

We offer design-in support for your application. You can use our Infineon Solution Finder: <https://www.infineon.com/solutionFinder> Here you select the relevant parameters of your application and narrow down your choice accordi... [+ Read more](#)

Write to the Technical Assistance Center Call us toll-free or request a call back Live chat with our Support Center Ask our community for support in the forum

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