



IPOSIM - Getting started guide

IPOSIM——入门指南

December 2021
2021 年 12 月



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



IPOSIM 是英飞凌在线仿真平台，用于英飞凌功率模块、分立器件和平板压接型器件的损耗和热计算。

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

IPOSIM 可帮助您根据应用需求选择最合适的英飞凌大功率产品。

Main Features 主要特性

- › **User-friendly flow**, designed to guide you step by step in simulating with power devices
用户友好工作流程,旨在指导您逐步对功率器件进行模拟
- › Fast online simulation **powered by PLECS®**
由 **PLECS®**提供支持的快速在线仿真
- › **19 topologies** for discs and modules available, clustered by power conversion type
19 种拓扑结构, 用于现有平板压接型器件和功率模块, 按功率转换类型分组
- › **Multi-selection of up to 5 Infineon products** for performance comparison
最多同时选择5款产品, 用于性能比较
- › Save and Share designs within your team using **deep-link**.
使用 **深度链接**在您的团队中保存并分享设计。

3 types of simulation offered: 提供 3 种仿真类型:



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

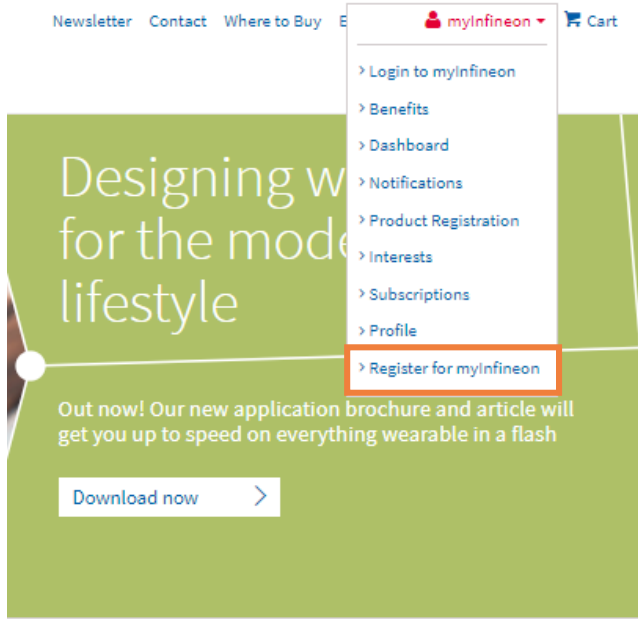
首先通过 3 个简单步骤设置 myInfineon 帐户



Step 1 步骤 1

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

在 www.infineon.com 页面点击右上角 “myInfineon” 并选择 “注册 myInfineon” 选项



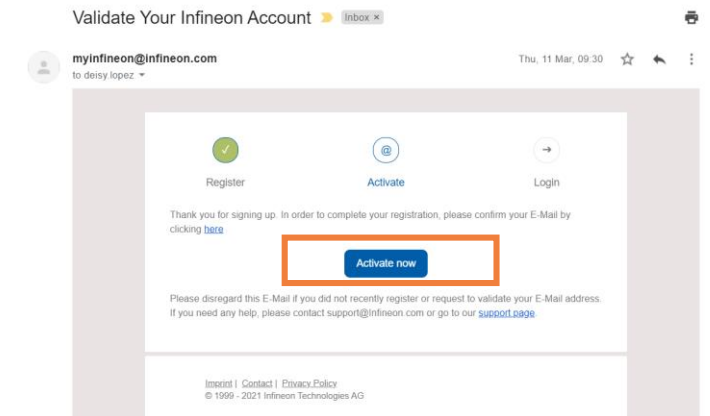
Step 2 步骤 2

Fill out the form
填写表格

The screenshot shows the 'myInfineon registration' form. The form has a title 'myInfineon registration' and a subtitle 'Register now and enjoy the benefits of myInfineon'. Below the subtitle are three icons: 'Valuable Content', 'Integrated Services', and 'Personalized Experience'. The form fields are: First name, Last name, Company, Country/Territory (dropdown menu with 'Germany' selected), Company E-mail, and Password. There are also checkboxes for 'Stay informed!' and a 'Create Account' button at the bottom.

Step 3 步骤 3

An email will be sent out to activate your account. Please click on the link and finalize registration
您将收到一封电子邮件，以激活您的帐户。请点击链接并完成注册

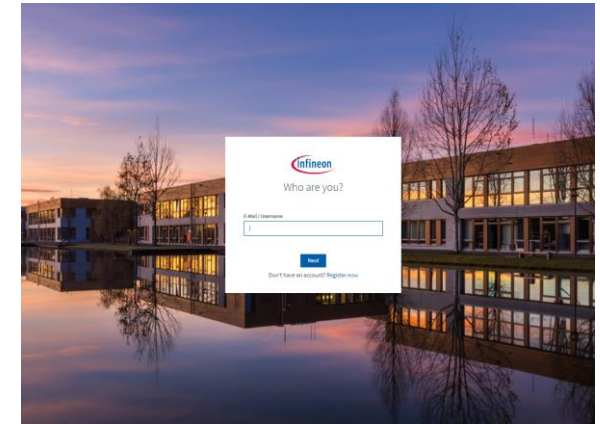
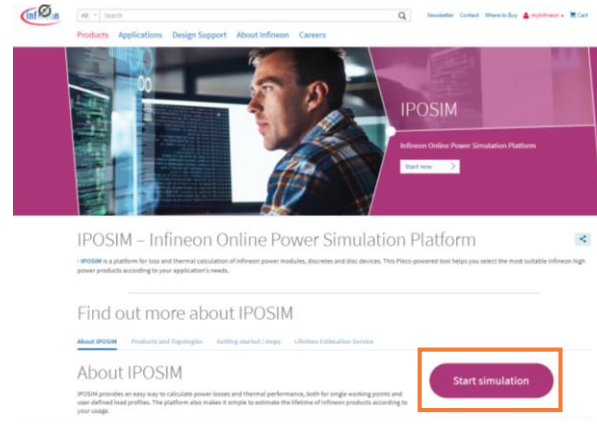


With your new myInfiniteon account, log into IPOSIM and follow the steps for your simulation. 

使用新的 myInfiniteon 帐户，登录 IPOSIM，并按照步骤进行仿真。

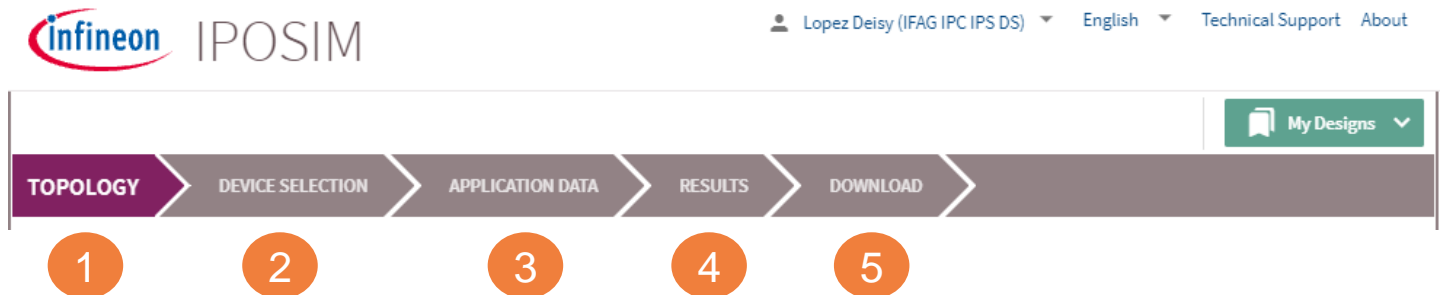
Log into
IPOSIM
登录
IPOSIM

Go to www.infineon.com/IPOSIM
and click on “Start Simulation”
You will need to log into
myInfiniteon account.
访问 www.infineon.com/iposim
并点击 “开始仿真”
您需要登录 myInfiniteon 帐户。



Follow the
process in
IPOSIM
遵循
IPOSIM 中
的流程

IPOSIM guides you through the
set up of your simulation.
In the following pages you will
find more information about
every step.
IPOSIM 将指导您完成仿真设置。
在以下页面中，您将找到关于每个步骤的更多信息。



Step 1: Select your preferred topology 步骤 1：选择您喜欢的拓扑结构

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

My Designs

[TOPOLOGY](#)
[DEVICE SELECTION](#)
[APPLICATION DATA](#)
[RESULTS](#)
[DOWNLOAD](#)

AC/DC Applications

Single Phase

- B2U - Two-Pulse Bridge Uncontrolled
- B2C - Two-Pulse Bridge Fully Controlled

Three Phase

- B6U - Six-Pulse Bridge Uncontrolled
- B6C - Six-Pulse Bridge Fully Controlled
- M3.2U - Double Three-Pulse Star Uncontrolled
- M3.2C - Double Three-Pulse Star Fully Controlled
- M6U - Six-Pulse Star Uncontrolled
- M6C - Six-Pulse Star Fully Controlled

DC/DC Application

- Boost (Module)
- Buck (Module)
- DC Decoupling

AC/AC Applications

Single Phase

- W1C - Phase Control
- Half-Bridge Series-Resonant for Induction Heating (Discrete)

Three Phase

- W3C - Phase Control

DC/AC Applications

Single Phase (Module)

Three Phase - 2 Level (Module)

Three Phase - 2 Level (Automotive Module)

Three Phase - 2 Level (Discrete)

Three Phase - 2 Level (Automotive Discrete)

Three Phase - 2 Level (Stack Solution)

Three Phase - 3 Level NPC1 (Module)

Three Phase - 3 Level NPC2 (Module)

Three Phase - 3 Level ANPC (Module)

Example: Inverter topologies
示例：逆变器拓扑结构

IPOSIM offers **19 different topologies** to choose from, clustered according to the power conversion type.
IPOSIM 提供了 **19 种不同的拓扑结构** 供您选择，并根据功率转换类型进行了分组。

Step 2: Choose Your Devices 步骤 2：选择器件

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

TOPOLOGY

DEVICE SELECTION

APPLICATION DATA

RESULTS

DOWNLOAD

Previous Next

Parameter Selection

DC Link Voltage (Vdc) 650 V

Blocking Voltage 1200 (recommended) V

Rated Current 50 A

Filter by Packaging All

a) Filtering parameters

a) 参数筛选

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

b) Quick search

b) 快速搜索

Circuit topology

电路拓扑结构

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 _{nom} /I _{nom} [A]	V _{CESat, 125°C} /V _{DSat, 125°C} [V]	E _{on} + E _{off, 125°C} [mWs]	R _{ds, on} [K/W]	T _{vj, max} [°C]	V _{F, 125°C} [V]	E _{rec, 125°C} [mWs]	R _{ds, on} [K/W]	T _{vj, max} [°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	

Product list with sorting function

具有排序功能的产品列表

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.

IPOSIM 在产品列表中提供了参数筛选 (a) 和快速搜索选项 (b)。

您最多可以同时选择 **5 种器件**，这样您就可以进行性能比较。

Step 3: Set Your Application Data 步骤 3: 设置应用数据

TOPOLOGY
DEVICE SELECTION
APPLICATION DATA
RESULTS
DOWNLOAD

Simulation Type:
☒ Steady-State
☐ Load cycle simulation
☐ Lifetime Estimation

Circuit & Control

Cooling Condition

Advanced Parameters

Parameter Selection

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

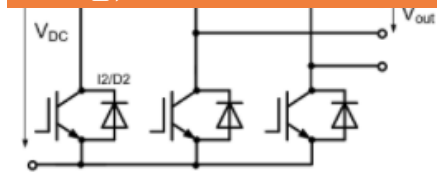
Previous

Next

Simulation type selection
仿真选型

c) Set other application data:
c) 设置其他应用数据:

- cooling condition 冷却条件
- Rgon,off Rgon, 开通与关断电阻



b) Set operation parameters
b) 设置操作参数

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***

您可以选择要使用的仿真类型、仿真单个工作点的**稳态**、模拟用户定义负载分布的**负载周期**或**使用寿命评估**。

b) Set the desired operating parameters
设置所需的操作参数

c) In the next tabs you can set cooling conditions and values for gate resistance.
在下一个选项卡中，您可以设置冷却条件和栅极电阻值。

*Lifetime Estimation is currently available for the topology: Three-phase Two-level
*使用寿命评估目前可用于拓扑结构：三相两电平

Step 4: Compare Simulation Results 步骤 4：仿真结果对比

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
<div>Maximum Junction Temperature</div> <div>Switch 85.41°C</div> <div>Diode 85.41°C</div>	<div>Maximum Junction Temperature</div> <div>Switch 91.54°C</div> <div>Diode 59.62°C</div>	<div>Maximum Junction Temperature</div> <div>Switch 88.48°C</div> <div>Diode 88.48°C</div>	<div>Junction Temperature 结温</div> <div>Diode 59.56°C</div>
<div>Switching Losses</div> <div>Switch 0.60W</div> <div>Diode Not calculated</div> <div>Conduction Losses</div> <div>Switch 33.78W</div> <div>Diode Not calculated</div> <div>Total Losses</div> <div>Switch 34.37W</div> <div>Diode Not calculated</div>	<div>Switching Losses</div> <div>Switch 7.65W</div> <div>Diode 1.71W</div> <div>Conduction Losses</div> <div>Switch 69.51W</div> <div>Diode 7.22W</div> <div>Total Losses</div> <div>Switch 77.15W</div> <div>Diode 8.92W</div>	<div>Switching Losses</div> <div>Switch 0.54W</div> <div>Diode Not calculated</div> <div>Conduction Losses</div> <div>Switch 34.22W</div> <div>Diode Not calculated</div> <div>Total Losses</div> <div>Switch 34.76W</div> <div>Diode Not calculated</div>	<div>Conduction & Switching Losses 导通和开关损耗</div> <div>Switch 7.19W</div> <div>Diode 0.4W</div> <div>Conduction Losses</div> <div>Switch 34.7W</div> <div>Diode 12W</div> <div>Total Losses</div> <div>Switch 76.66W</div> <div>Diode 8.86W</div>
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. Module/Discs部分显示了最高结温、开关和导通损耗的计算值。

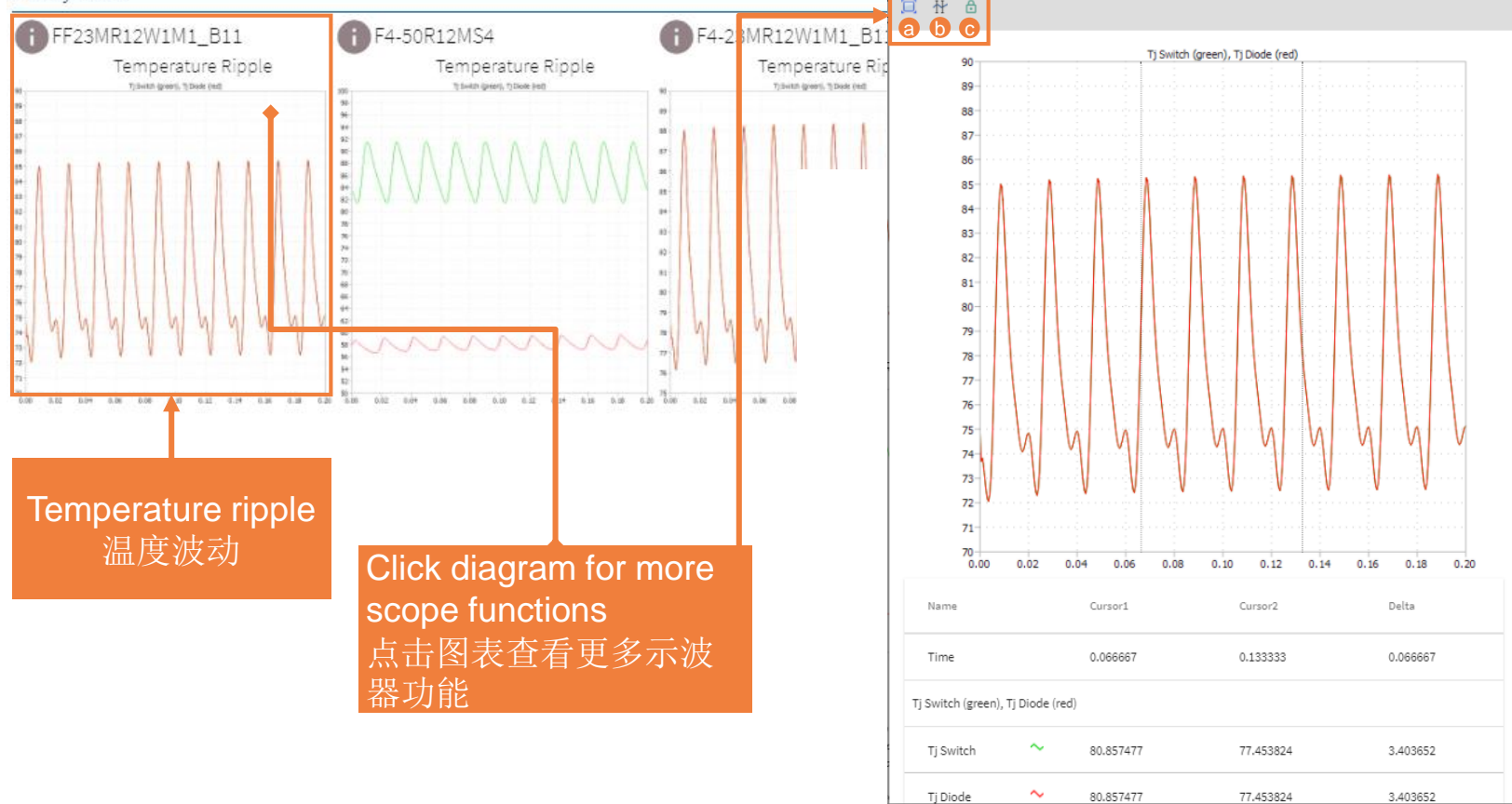
Is presented in a way that allows you to compare between various selected devices. 以允许您在各种选定器件之间进行比较的方式呈现。

Step 4: Compare Simulation Results 步骤 4: 仿真结果对比

Simulation Graphics

Click on image for more scope functions

Steady-State



In **Simulation Graphics** you can view and inspect the temperature ripple resulting from operating the selected devices under specified working point. 在仿真图形上，您可以查看并检查在指定工作点下操作所选器件产生的温度波动。 Click on the diagram for more scope functions like:

点击图表查看更多示波器功能，如：

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

- a) 用鼠标拖动放大
- b) 打开光标测量信号
- c) 冻结光标距离以获得更好的测量体验

Step 5: Download Results and Share Design 步骤 5: 下载结果和分享设计

a) Save design 保存设计

b) Share design 分享设计

Design Summary 设计概要



Datasheets 数据表


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


在最后一步中，您可以下载 excel 文件格式的仿真结果，如**设计概要**部分所示。

You can also find the data sheets of selected devices for your detailed analysis and decision making. 您还可以找到所选器件的数据表，供您详细分析和决策。

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

您也可以通过点击  (a) 进行保存.您可以通过点击  找到设计信息。

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](#).

通过点击 分享设计  (b). 页面链接将会复制到剪贴板，因此您可以与任何人分享，以相同配置重新进行仿真。请参阅[此处](#)的示例。

Load Cycle Simulation

负载周期仿真

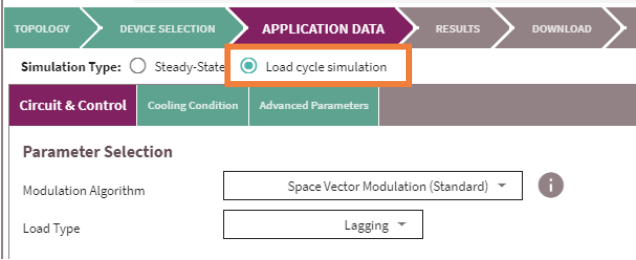
Load Cycle: upload your desired mission profile

负载周期：上传您所需的任务配置文件



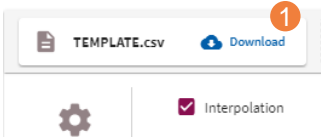
1. Select Load Cycle as simulation type
1.选择负载周期作为仿真类型

In the Application Data step select the option:
Load cycle simulation
在应用数据步骤中选择选项：负载周期仿真



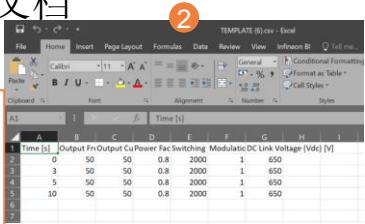
2.a. Use the excel format
2.a.使用 excel 格式

1) Download the CSV template
1)下载 CSV 模板

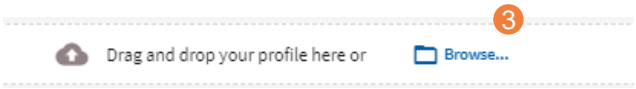


2) Fill out the template and save the document
2)填写模板并保存文档

Input decimals using a dot
使用点输入小数



3) Upload the CSV file, or drag and drop the file.
3)上传 CSV 文件，或拖放文件。



2.b. Use directly the table available online
2.b.直接使用在线表格

Insert your desired mission profile values directly on the table displayed in IPOSIM
直接在 IPOSIM 显示的表格中插入所需的任务配置文件值

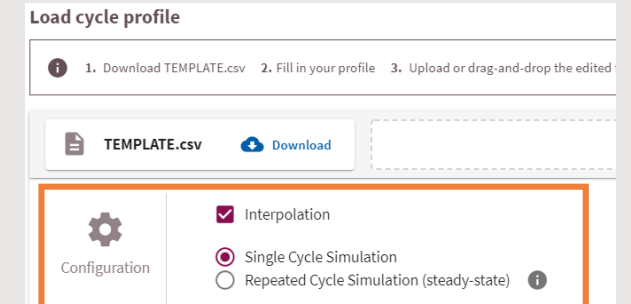
	Time [s]	Output Frequency [Hz]	Output Current [out] [Arms]	Power Factor cos(φ)	Switching Frequency [Hz]	Modulation Index	DC Link Voltage [Vdc] [V]
1	0	1.5	0.1	0.9	4000	1	680
2	0.02	1.5	310.5	0.9	4000	1	680
3	2	60	310.5	0.9	4000	1	680
4	2.02	60	207	0.9	4000	1	680
5	30	60	207	0.9	4000	1	680
6	30.02	1.5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

负载周期：上传您所需的任务配置文件

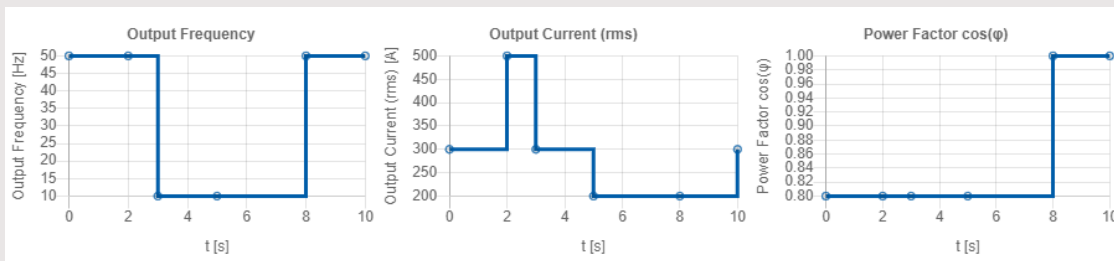
More Load Cycle features 更多负载周期特性

- › 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)
- › 可选温度波动或平均温度的仿真
- › 可提供插值或不连续的负载分布
- › 可重复的负载分布周期（最多 10 个周期）

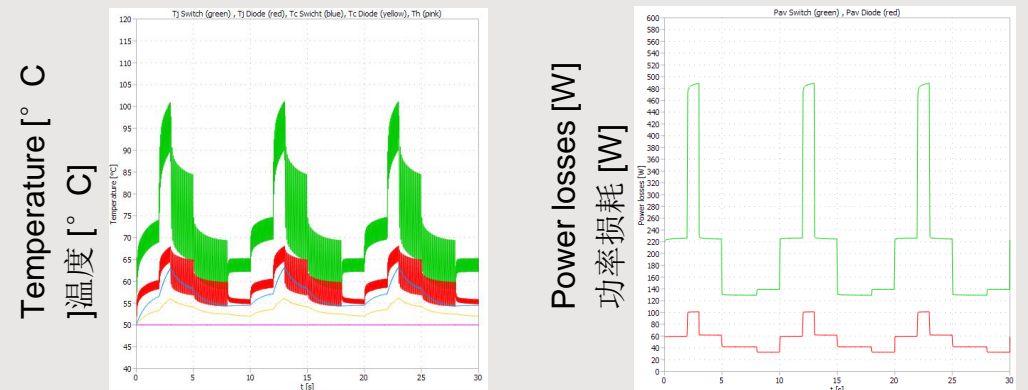


Load Cycle Example: DC-AC 3-Phase 2-Level 负载周期示例: DC-AC 三相双电平

- › Constant inputs: $V_{DC} = 650\text{ V}$, $f_{sw} = 2\text{ kHz}$, Modulation Index = 1
恒定输入: $V_{DC} = 650\text{ V}$, $f_{sw} = 2\text{ kHz}$, 调制指数 = 1
- › Load Profile with 3 cycles repeated 重复 3 个周期的负载分布
- › Click [here](#) to recall the simulation in IPOSIM.
点击[此处](#)以回顾 IPOSIM 中的仿真。



Simulation Results 仿真结果



Lifetime Estimation service

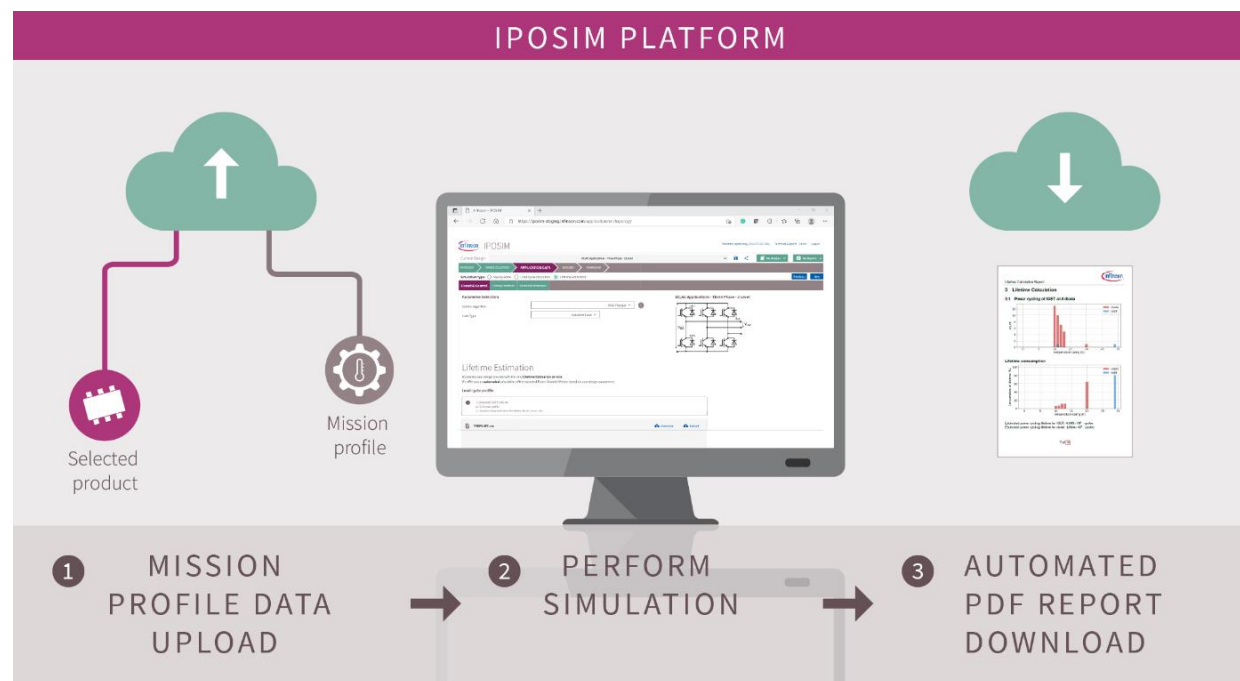
使用寿命评估服务

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



使用寿命评估服务可让您在线访问英飞凌独特的专业知识，以简化您的设计过程

Automated Lifetime Estimation service:自动使用寿命评估服务:



Digitally estimate the lifetime of IFX modules in your application.

以数字方式估算应用中 **IFX** 模块的使用寿命。

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](#)).

登录 IPOSIM 后, **1** 选择英飞凌功率模块, 并上传所需的任务配置文件。识别这些信息后, **2** IPOSIM 将会执行使用寿命评估。计算完成后, **3** 可以下载报告, 包括所选器件的可能周期数 ([参见报告示例](#))。

What are your benefits?对您有哪些益处?

Access to unique know-how

获得独特的专业知识

Complement your design phase with unique semiconductor expertise.

用独特的半导体专业知识使您的设计过程更完整。

Save time and effort in your design process

在设计过程中节省时间和精力

Decrease the time to set-up and perform lifetime estimations
缩短设置和执行使用寿命评估的时间

For detailed information about Lifetime Estimation please visit our [Infopage](#)
有关使用寿命评估的详细信息，请访问 [InfoPage](#) 页面



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

Infineon Online Power Simulation Platform

> **IPOSIM** is a platform for loss and thermal calculation of Infineon power modules, discretes and disc devices. This Plect-powered tool helps you select the most suitable Infineon high power products according to your application's needs.

About IPOSIM Products and Topologies Getting started / steps **Lifetime Estimation Service**

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 Three-phase Two-level topology (More topologies to come)
- Enabled for Infineon power modules (Automotive modules and other product)



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).

Start simulation



Documents

User Manual - Lifetime Estimation Service Platform **NEW**
01_00 | Oct 19, 2021 | PDF | 1.23 mb

Report Example **NEW**
01_00 | Nov 19, 2021 | PDF | 733 kb

1) Demo video
1) 演示视频

2) User Manual
2) 用户手册

3) Report Sample
3) 报告样本

Here you can find:

1. **Demo video** of Lifetime Estimation service.
2. **User manual** of Lifetime Estimation service with detailed information about methodology and how to execute this simulation.
3. A **report sample** for users to inspect the results from the lifetime estimation simulation.

在这里您可以找到:

1. 使用寿命评估服务的**演示视频**。
2. 使用寿命评估服务的**用户手册**，其中包含相关方法和如何执行此仿真的详细信息。
3. 供用户检查使用寿命评估仿真结果的**报告样本**

Access Lifetime Estimation service through a complete digital journey:

Subscribe, pay and use, everything in IPOSIM

通过完整的数字化旅程访问使用寿命评估服务:

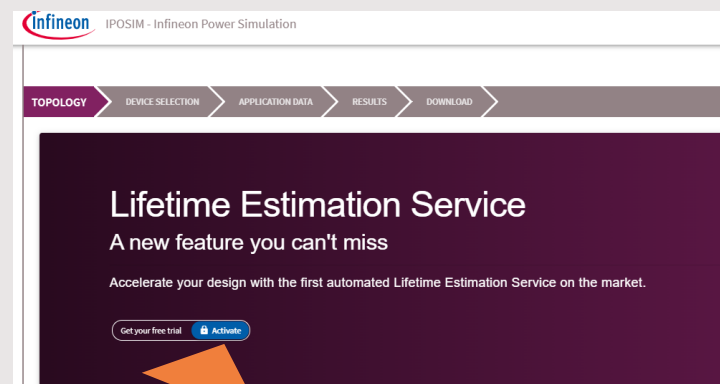
订阅、支付和使用, 一切尽在 IPOSIM



First, log into IPOSIM and click „activate“ in the Lifetime Estimation banner

首先, 登录 IPOSIM, 点击使用寿命评估横幅中的“激活”

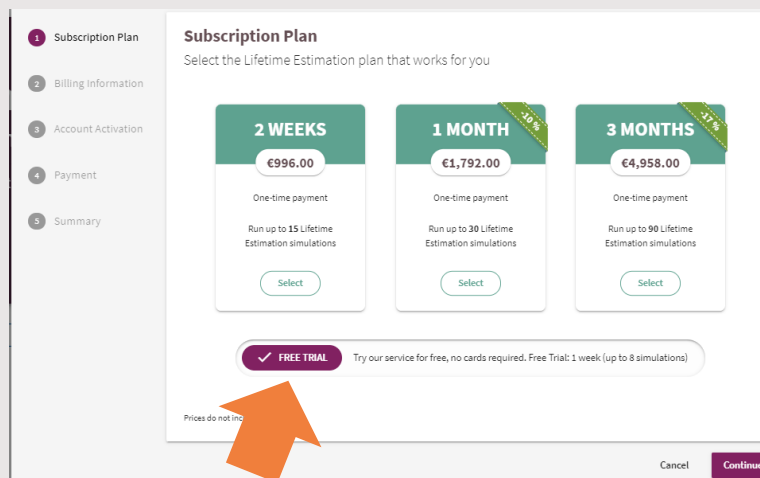
<https://iposim.infineon.com/>



Select your preferred Subscription plan and follow the instructions

选择您喜欢的订阅计划, 并按照说明进行操作

Not sure which plan?
Check out our FREE TRIAL
还不确定选择哪个计划?
查看我们的免费试用版



Pay online and start using Lifetime Estimation service immediately!

在线支付, 立即开始使用使用寿命评估服务!

Use your Corporate credit card, or pay with WeChat and Alipay.

You will receive an official invoice for reimbursement purposes.

使用您的企业信用卡, 或使用微信和支付宝支付。
您将收到用于报销的正式发票。



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Parameter Sweep: Ploss, average / Tj versus Irms

参数扫描: Ploss, average / Tj versus Irms

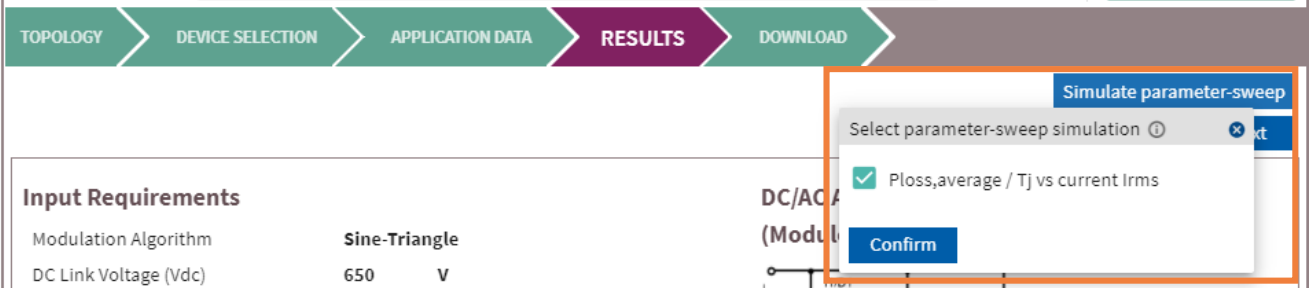
Feature selection特性选择

With this feature you can find out the maximum allowed Irm current at given condition.借助此特性，您可以找出在给定条件下允许的最大 Irm 电流。

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**

在结果的右上角，您可以找到一个按钮 (a) 来仿真参数扫描。只需选择 Ploss、average/Tj vs current Irms option 并点击 **Confirm**

Recal an example of this feature [here](#).
在[此处](#)回顾此特性的示例。



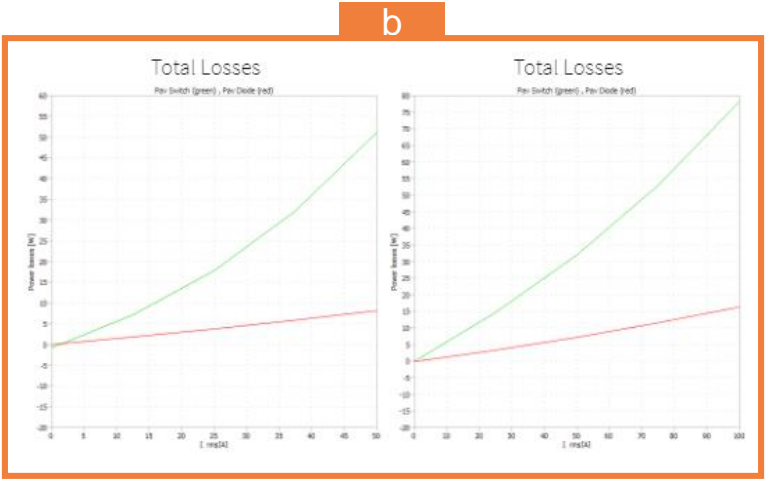
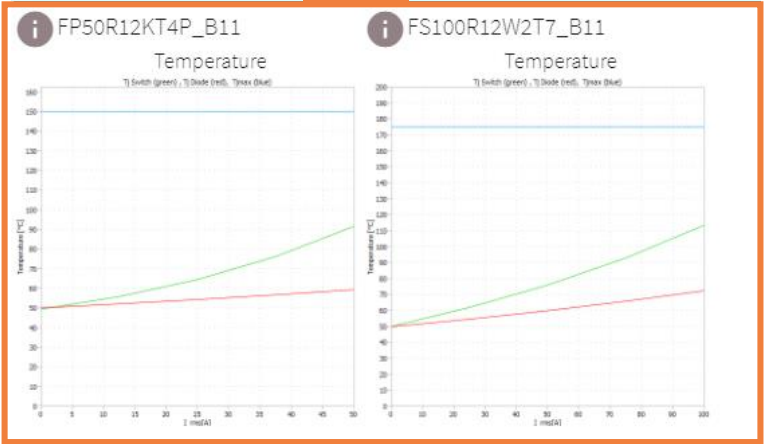
Available only for Steady State simulations
仅适用于稳态仿真

Results display结果显示

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

结果显示了在给定条件 (a) 下 Tj 与 Irms 的关系以及在给定条件 (b) 下平均功率损耗与 Irms 的关系。

Parameter-sweep simulation



Low Output Frequencies 低输出频率

- › 0-Hz Simulation not implemented, down to 0.1 Hz available
- › Load cycle simulation: for more accuracy put enough duration of low
- › 不支持 0 Hz 仿真，最低 0.1 Hz
- › 负载周期仿真：为了获得更准确的结果，在低频部分放置足够的持续时间，例如：f_{out} = 0.1 Hz 时，至少为 10s。

Save & Share 保存和分享

- › Save your designs under My Designs incl. load cycle settings
- › Copy / paste browser URL (deep-link) to share your designs
- › 将设计保存在我的设计中，包括负载周期设置
- › 复制/粘贴浏览器 URL（深度链接）以分享设计

Result Diagrams 结果图

- › Click result diagrams to enlarge
- › Discover signals with scope functions such as cursors, zoom-in/out
- › 点击结果图以放大
- › 使用光标、放大/缩小等示波器功能发现信号

Too High T_j T_j 温度过高

- › Our thermal models of the products are not designed for overheated T_j
- › In case of T_j > 200 ° C, check your input requirements, cooling condition or change to a bigger module
- › 我们的产品热模型不是为过热的 T_j 而设计的
- › 如果 T_j > 200 ° C，请检查输入要求、冷却条件 或更换一个更大的模块

Solve artifacts 解决工件

- › browser caching issues after new version updates
新版本更新后的浏览器缓存问题
 - key combination [Ctrl] + [F5] to reset browser cache
 - or manually clear the browser caching
通过组合键 [Ctrl] + [F5] 重置浏览器缓存
 - 或手动清除浏览器缓存

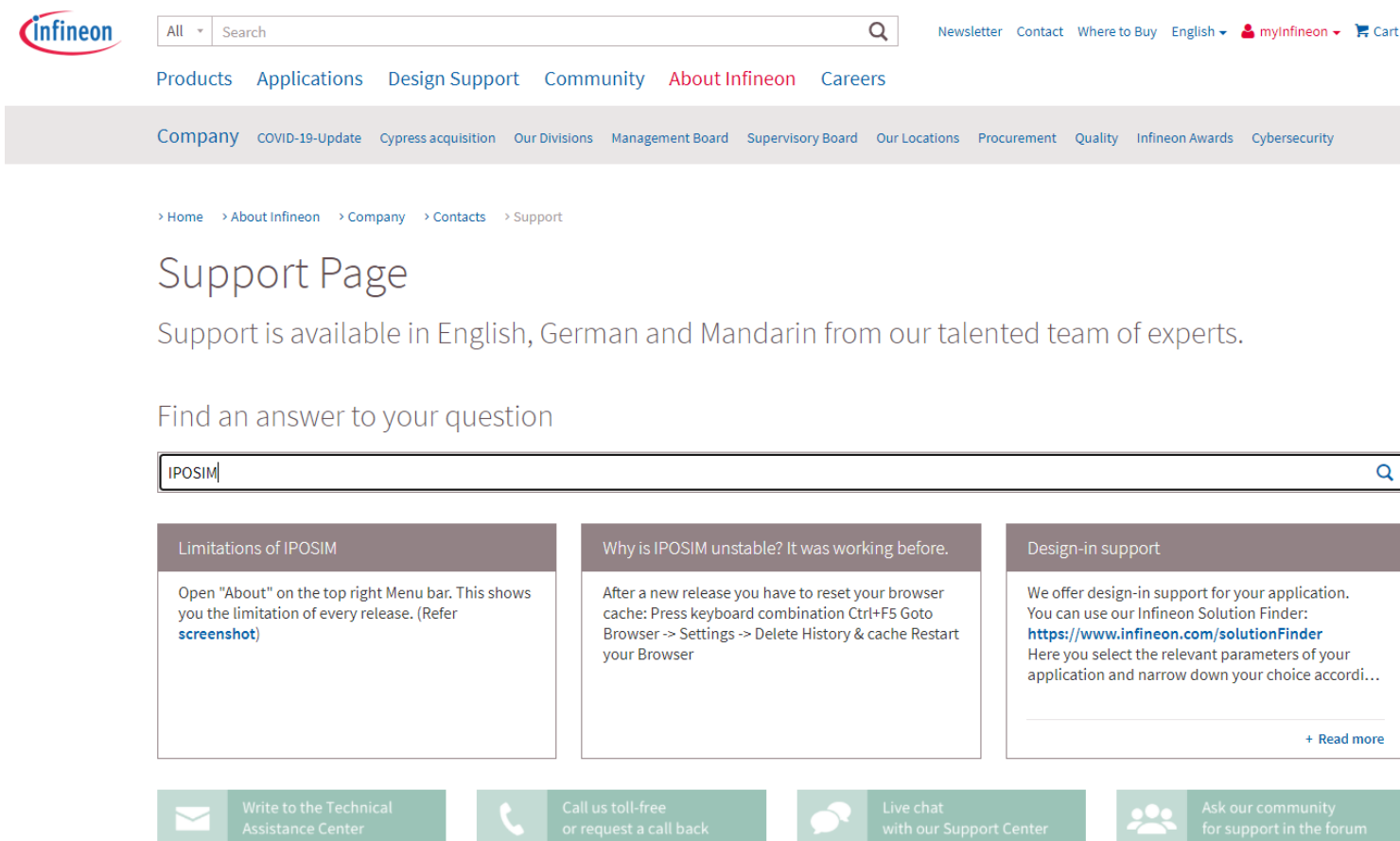
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For support and questions visit: www.infineon.com/support
如需技术支持和问题解决，请访问：www.infineon.com/support



The screenshot shows the Infineon website's support section. At the top is the Infineon logo and a navigation bar with links like Products, Applications, Design Support, Community, About Infineon, and Careers. Below this is a search bar with the text "IPOSIM" entered. The main content area features three columns of support resources: "Limitations of IPOSIM" with a link to a screenshot, "Why is IPOSIM unstable? It was working before." with instructions on how to reset the browser cache, and "Design-in support" with a link to the Infineon Solution Finder. At the bottom, there are four contact options: "Write to the Technical Assistance Center", "Call us toll-free or request a call back", "Live chat with our Support Center", and "Ask our community for support in the forum".

Infineon

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> Home > About Infineon > Company > Contacts > Support

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

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Disclaimer

免责声明



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