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> Uninterruptible power supply

Uninterruptible power supply (UPS)

Overview

Today's uninterruptible power supply (UPS) systems face a wide range of challenges. Overcoming them requires an increase in output power and power density as well as energy efficiency and reliability.

For all UPS power supply applications, high-quality products from Infineon and International Rectifier provide you with solutions targeting the entire power range of UPS applications. Equipped with our semiconductors, UPS systems can achieve best-possible power conversion efficiency and cutting-edge power density.

The benefits: cost reduction and fewer number of passive components – regardless of the topology used.

By choosing Infineon for UPS applications you get solutions that fulfill the latest market requirements. For example, modularization of UPS brick units, a prerequisite for implementing scalable UPS systems in data centers. A second example: multilevel topologies that achieve higher efficiency and performance. From highly functionally integrated gate drivers, to microcontrollers, to discrete IGBTs, to power MOSFETs, to 3-level IGBT modules, Infineon's portfolio covers UPS needs in a diverse range of applications, including telecom, data centers, servers and

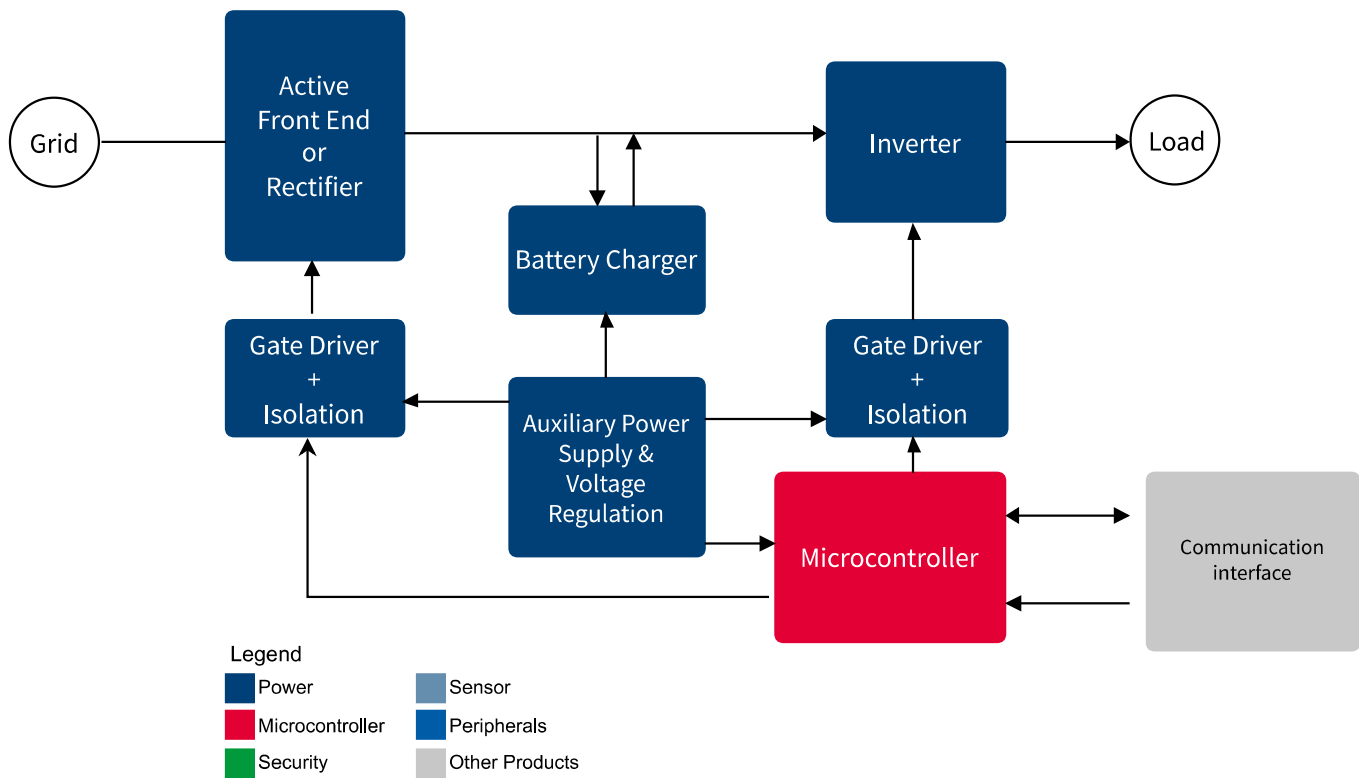
> **Industrial Automation** (</cms/en/applications/automation/industrial-automation/>).

Uninterruptible power supply system diagram 10kVA to 50kVA

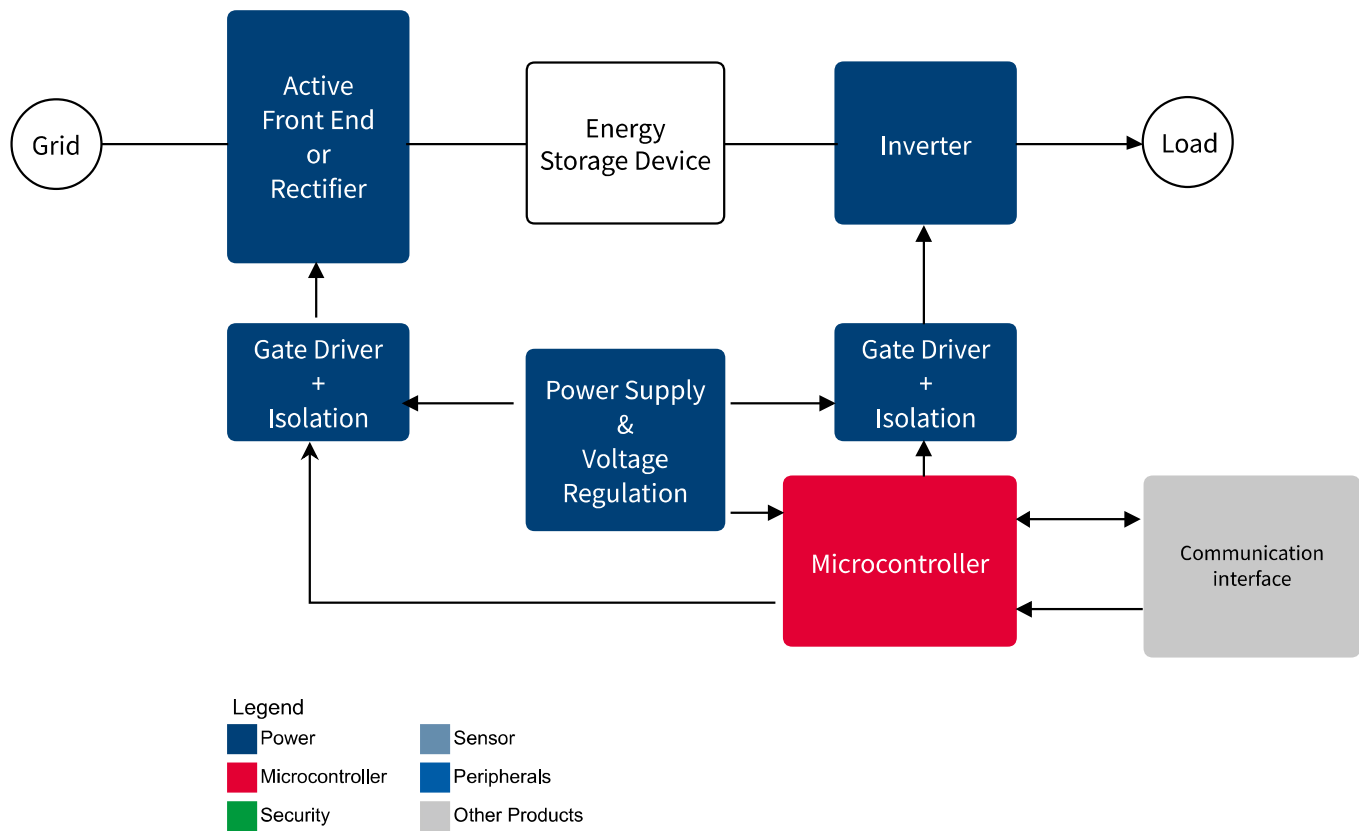
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Uninterruptible power supply system diagram 100kVA



Documents

Application brochures

**Application Brochure Embedded systems**

01_00 | May 04, 2016 | PDF | 879 kb

(/dgd/Infineon-ApplicationBrochure_Embedded_systems-ABR-v01_00-EN.pdf?
fileId=5546d46253f6505701547bf6bd196bff)

**Short Form Catalog - May 2017** NEW

03_00 | May 12, 2017 | PDF | 2.93 mb

(/dgd/Infineon-Shortform+Catalog-PC-v03_00-EN.pdf?fileId=db3a30431a47d73d011a529661267822)

**CoolMOS™ Benefits in Hard and Soft Switching**

06_16 | Jun 09, 2016 | PDF | 1.46 mb

(/dgd/Infineon-ProductBrochure_CoolMOS_Benefits_in_Hard_Soft_Switching-BC-v06_16-EN.pdf?
fileId=db3a3043338c8ac80133aca62ba63047)

**Solutions for Uninterruptible Power Supply (UPS) Systems** NEW

09_00 | May 15, 2017 | PDF | 3.41 mb

(/dgd/Infineon-Solutions_for_UPS-Systems-ABR-v09_00-EN.pdf?fileId=db3a30431a5c32f2011a5d9dd253004b)

**Application guide for mobile communication**

01_00 | Jan 20, 2017 | PDF | 2.55 mb

(/dgd/Infineon-Application+Guide+for+Mobile+Communication-BC-v01_00-EN.pdf?
fileId=db3a304334c41e910134f6522b346704)

**Application guide for protection devices**

02_00 | Jul 31, 2014 | PDF | 3.1 mb

(/dgd/Infineon-Infineon_Applicationguide_Protection_2014_en_2_0-ABR-v02_00-EN.pdf?
fileId=5546d4624a0bf290014a1a5c032156c9)

Application notes

**MOSFET CoolMOS™ P6 600V design of a 600W HB LLC converter**

01_00 | Aug 13, 2015 | PDF | 1.36 mb

(/dgd/Infineon-Application+Note+Design+of+a+600+W+HB+LLC+Converter+using+CoolMOS%E2%84%A2+P6-AN-
v01_00-EN.pdf?fileId=5546d4624f205c9a014f2713b91512f5)

**Application Note SmartRectifier™ Control IC Design Notes**

01_00 | Aug 26, 2015 | PDF | 717 kb

(/dgd/Infineon-Application+Note+SmartRectifier%E2%84%A2+Control+IC+Design+Notes-AN-v01_00-EN.pdf?
fileId=5546d4624f72be57014f82f3a9b75ec9)

**MOSFET CoolMOS™ P6 600V**

01_00 | Jul 15, 2015 | PDF | 1.03 mb

(/dgd/Infineon-Application+Note++600V+CoolMOS%E2%84%A2+P6-AN-v01_00-EN.pdf?
fileId=5546d4624f205c9a014f20916130002c)

Boards

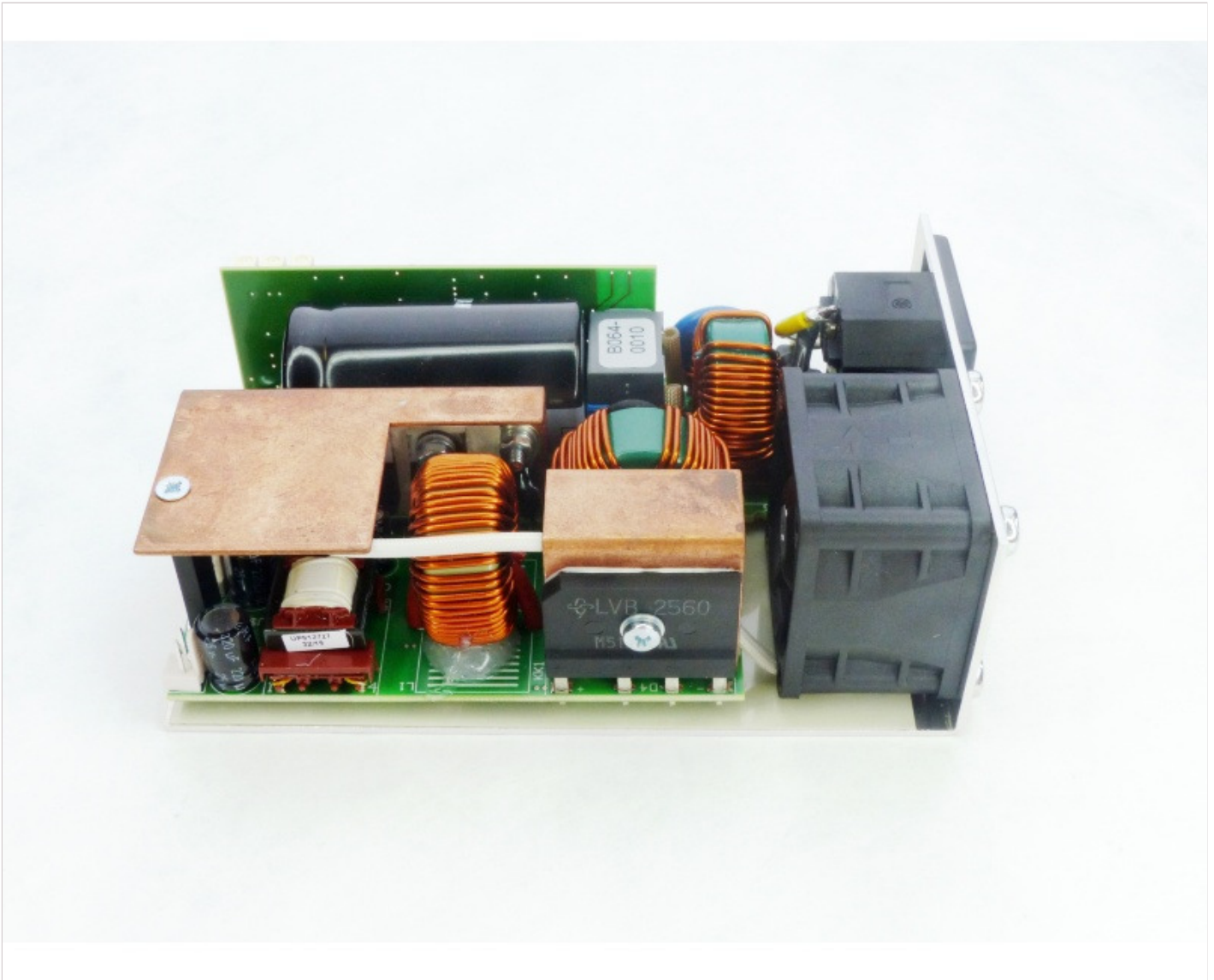
EVAL 2.5KW CCM 4PIN



› **More information** (</cms/en/product/productType.html?productType=5546d4624d6fc3d5014dfc62eef96c77>)

EVAL 800W 130PFC C7

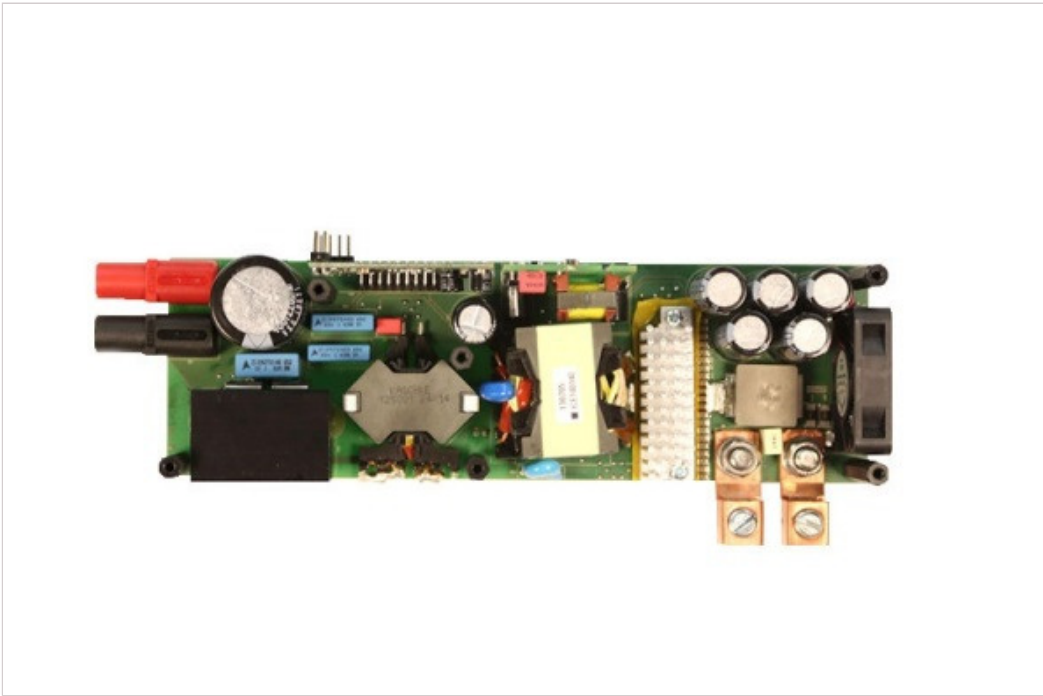
› **More information** (</cms/en/product/productType.html?productType=5546d4624d6fc3d5014de1e2b6fb2da3>)



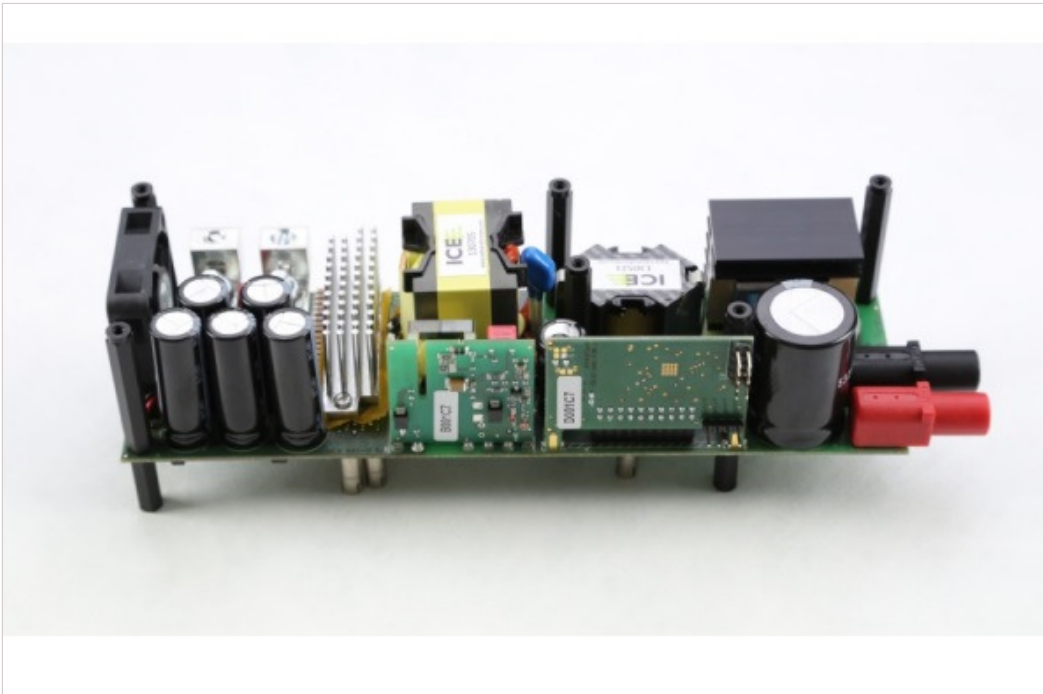
EVAL 600W 12V LLC A

> **More information** ([/cms/en/product/evaluation-boards/EVAL-600W-12V-LLC-A/productType.html?](/cms/en/product/evaluation-boards/EVAL-600W-12V-LLC-A/productType.html?productType=5546d4624a0bf290014a10c668de6bf4)

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EVAL 600W 12V LLC C7



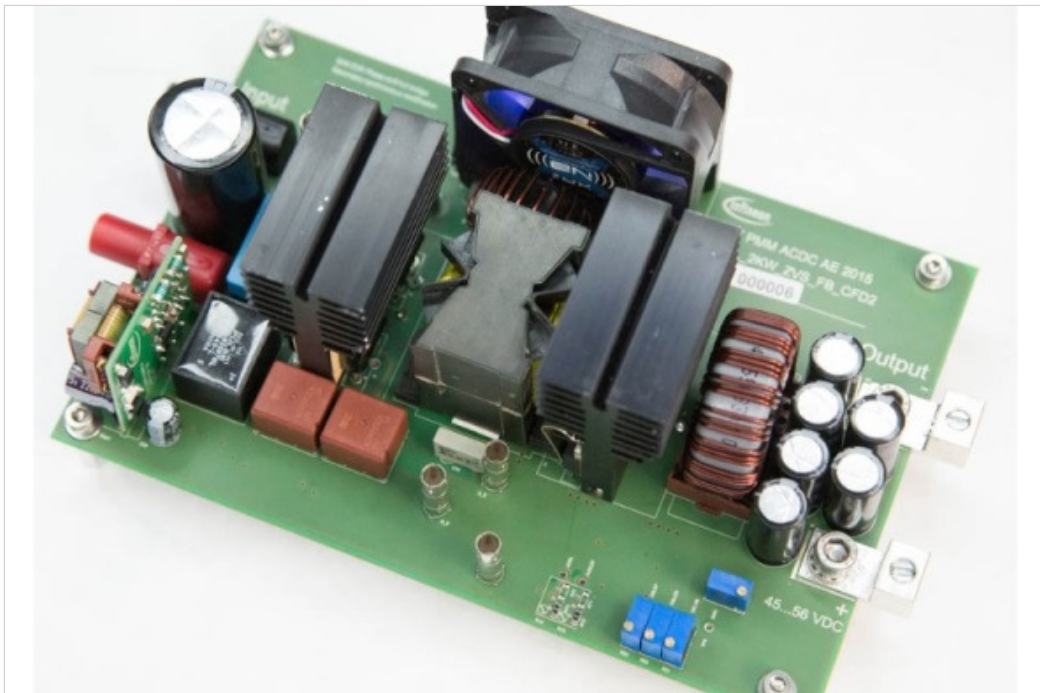
› **More information** (/cms/en/product/evaluation-boards/EVAL_600W_12V_LLC_C7/productType.html?productType=5546d4624d6fc3d5014daf2c983a37e9)

EVAL 300W CCM PFC P6

› **More information** (</cms/en/product/productType.html?productType=db3a3044414ecd5c01415507d9d10c5a>)



EVAL 2KW ZVS FB CFD2



› **More information** (/cms/en/product/power/power-mosfet/500v-900v-n-channel-coolmos-power-mosfet/evaluation-boards/EVAL_2KW_ZVS_FB_CFD2/productType.html?productType=5546d4624fb7fef2015003bbc2281018)

- › Power control Ics evaluation boards (/cms/en/product/channel.html?channel=db3a30433fe811c7013ff19c7d555d13)
- › CoolSET™ evaluation boards (/cms/en/product/channel.html?channel=db3a30433fe811c7013ff1653f665c6f)
- › Evaluation boards for IGBT modules and gate driver ICs (EiceDRIVER™) (/cms/en/product/channel.html?channel=ff80808112ab681d0112ab6a3383044a)
- › Microcontroller development tools, software and kits (/cms/en/product/channel.html?channel=ff80808112ab681d0112ab6b4ae207b5)

Evaluation Board Finder

**Search for Board****Input Voltage**AC ☐ DC ☐ - V

Reset

Find Solutions

Videos

Application & topology videos



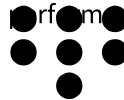
Introduction of High Voltage Power Device



High voltage power MOSFETs - CoolMOS™



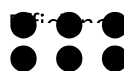
800 V
CoolMOS™
P7 - a
new
benchmark
in
efficiency
and
thermal
performance



Low and medium voltage power MOSFETs - OptiMOS™



OptiMOS™
n 5
40V/60V
–
Shrink
Your
Design
And
Boost



Discrete IGBTs

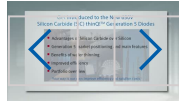


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5 -

Portfolio and Summary



SiC Schottky diodes & rapid diodes



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650V
SiC
thinQ™
Generation
E



EiceDRIVER™



EiceDRIVER™
2EDL
Driver
IC
Family

Evaluation board videos



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Titanium
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600W
LLC
Evaluation
Board
t -
Measuremen
and