

EVAL 300W CCM PFC P6

Overview

300W CCM Power factor correction (PFC), 110/230 AC to 400 DC, 98.5% peak efficiency

Parametrics

Documents

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Simulation

Support

Description:

The evaluation board is a 300W power factor correction (PFC) circuit with 85-265V_{AC} universal input and output of 395V_{DC} rated voltage, featuring the CoolMOS™ P6 [IPP60R190P6](#) and CoolSiC™ Schottky Diode Generation 5 [IDH02G65C5](#). The continuous conduction mode (CCM) PFC controller [ICE3PCS01G](#) is employed in this board to achieve the unity power factor.

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Summary of Features:

- Adjustable Gate Switching Frequency
- Soft Start-up
- Boost follower mode with reduction to 333VDC Output voltage
- Input brown-out protection (BOP)
- Open loop protection (OLP)
- First- and second over-voltage protection (OVP1+OVP2)
- Peak current limit
- Throughhole (THD) assembling with expand area layout
- IC supply under voltage lockout
- Bulk Voltage Monitor and Enable Function (VBTHL_EN)

Benefits:

- 98.5% efficiency
- Very high power factor (PF) up to 99.8%
- Meeting the Class D requirement of IEC 1000-3-2
- Easy to access and changeable layout (due to THD-assembling)

Target Applications:

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- [Telecom Rectifier](#)
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- [Gaming Consoles](#)
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Application Notes (630 KB, EN)



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