
AC/DC Converters

(for medium power application)



Features

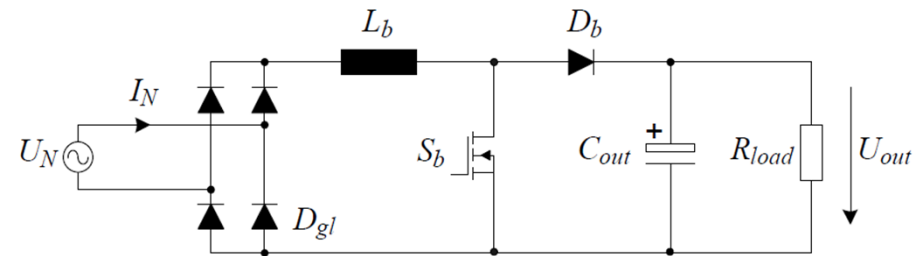
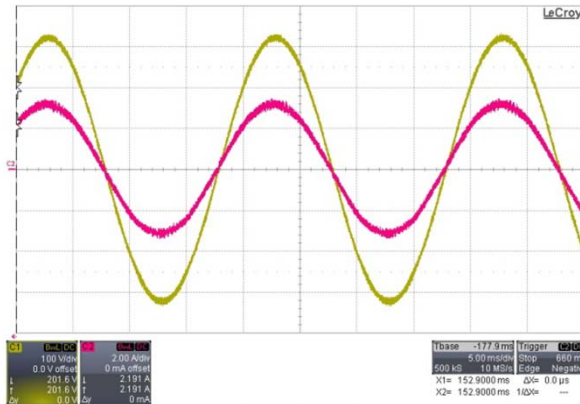
- Single Phase PFC Boost Converters
- Fulfilling EMI Standard CISPR class B
- Different Topologies
 - Conventional Boost PFC
 - Bridgeless Boost PFC
 - Triangular Current Mode PFC
- Hardware and Software Fault Protections (Over-Current and Over-Voltage)

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Specifications

- **Power Range:** 500W ... 3kW (different Designs)
- **Nominal Input Voltage:** 180V ... 280V rms
- **Output Voltage:** 400V dc
- **Switching Frequency:** 20kHz ... 500kHz (different Designs)

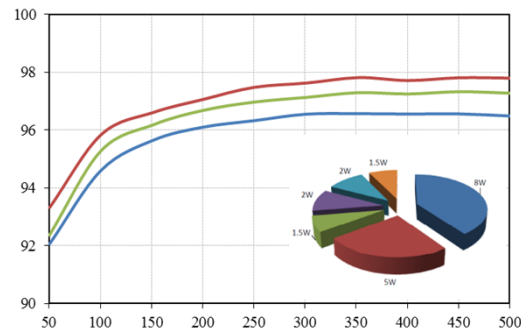


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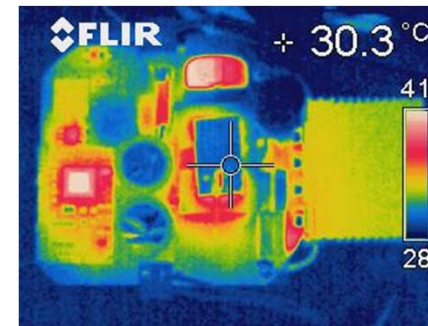
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System Optimization

- Efficiency and Loss Distribution

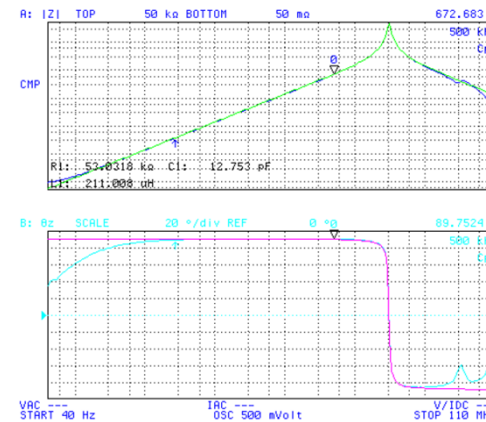


- Thermal inspection



System Design

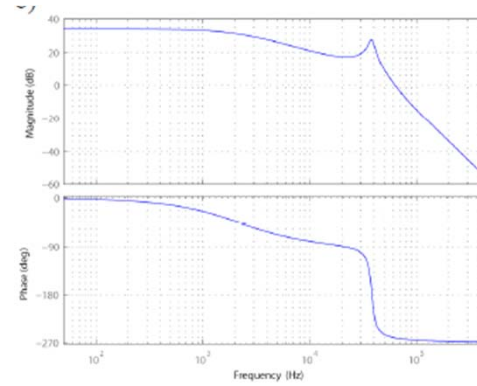
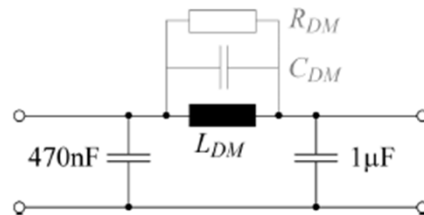
- Boost Inductor Design



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Input Filter Design



EMI Measurements

