

EN6340QI | EN6363QI

Intel® Enpirion® Power Solutions

Technical Details

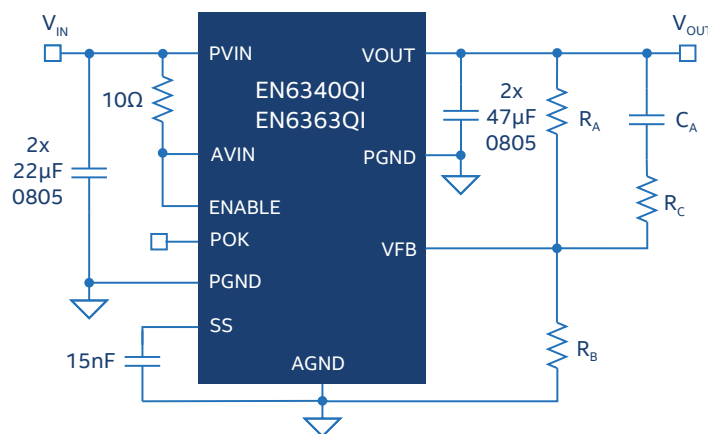
- High efficiency (up to 95%)[†]
- Optimized total solution size
60 mm²
- Input voltage range: 2.7V to 6.6V
- 0.5% initial V_{FB} accuracy[†]
- 1.5% V_{FB} accuracy over line, load, and temperature[†]
- Excellent ripple and electromagnetic interference (EMI); passes CISPR 22 Class B
- Precision enable
- Full suite of protections
- 4 x 6 x 2.5 mm 34-pin QFN package

EN6340QI 4A and EN6363QI 6A Scalable DC-DC Step-Down Converters with Integrated Inductor

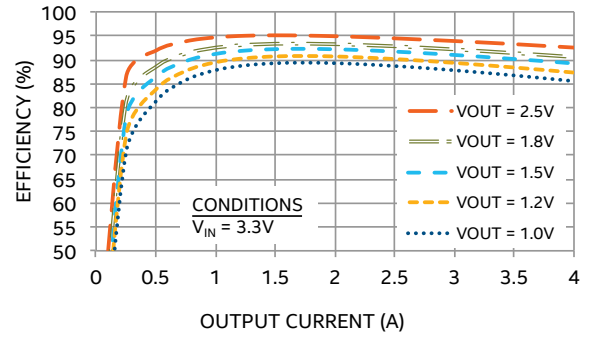
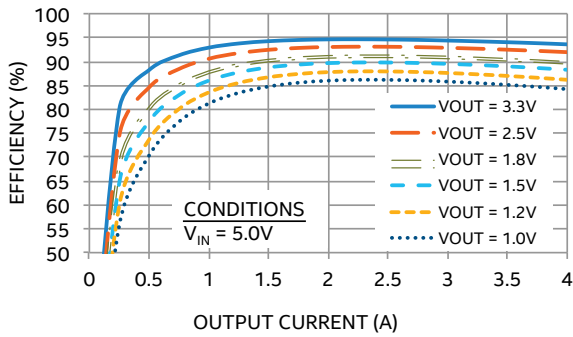
The EN6340QI and EN6363QI PowerSoCs are DC-DC step-down converters with integrated inductors that deliver an excellent combination of small solution size and performance. These full featured PowerSoCs are optimized to deliver high conversion efficiency, low output voltage ripple, fast load transient response, and tight output voltage accuracy. The EN6340QI and EN6363QI PowerSoCs are ideal for space constrained applications that cannot sacrifice performance. Both products deliver full rated current at 85°C with no thermal derating.

The EN6340QI and EN6363QI PowerSoCs are pin and PCB compatible. This provides designers with a great deal of flexibility, especially in applications where the final power requirements are not yet finalized. With this flexibility, designers can scale up to the EN6363QI 6A PowerSoC if more current is required, or scale down to the EN6340QI 4A PowerSoC if less current is needed to optimize cost.

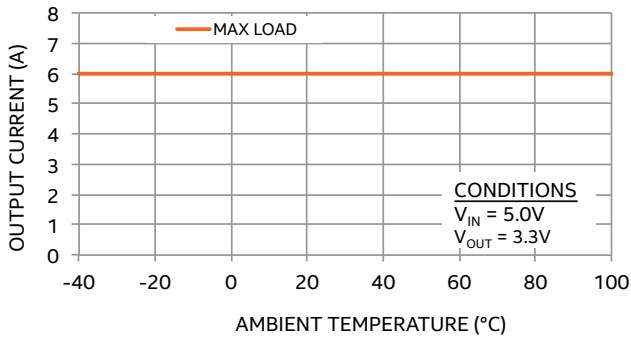
The EN6340QI and EN6363QI PowerSoCs will dramatically improve system reliability versus discrete power supply solutions because they are designed, characterized, and qualified as a system, resulting in a solution that delivers very low failure in time (FIT) rates.



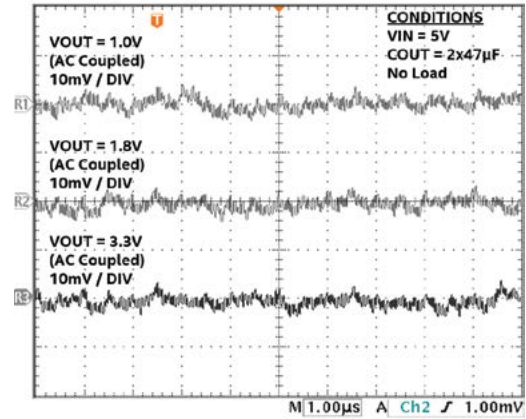
Simplified Applications Circuit



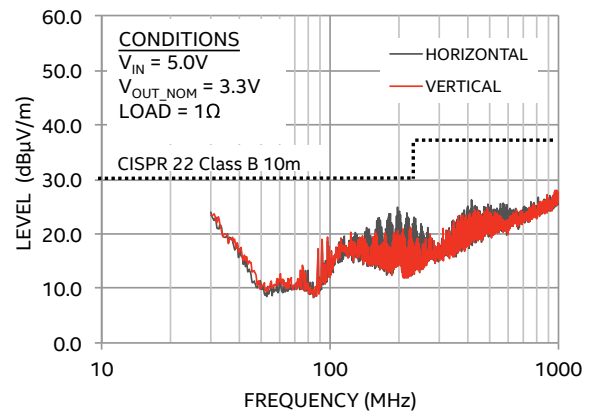
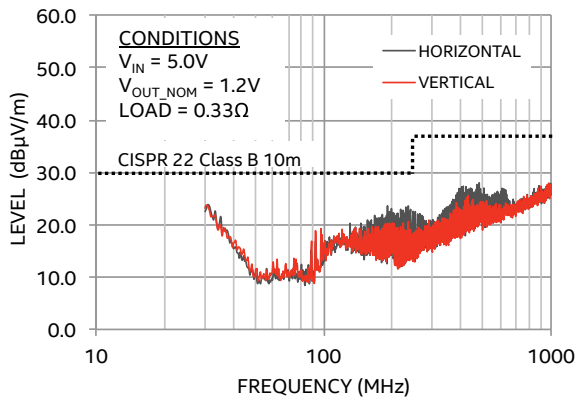
High Conversion Efficiency



No Thermal Derating



Low Output Voltage Ripple



Meets CISPR 22 Class B EMI Standard



EN6340Q PowerSoC: <https://www.altera.com/en6340>

EN6363QI PowerSoC: <https://www.altera.com/en6363>

All information provided here is subject to change without notice. Contact your Intel representative to obtain the latest Intel product specifications and roadmaps.

Features and benefits of Intel's technologies depend on system configuration, hardware, software and services. No computer system can be absolutely secure. Learn more at www.intel.com

[†] Tests measure performance of components on a particular test, in specific systems. Differences in hardware, software, or configuration will affect actual performance. Consult other sources of information to evaluate performance as you consider your purchase. For more complete information about performance and benchmark results, visit www.intel.com/benchmarks.

Intel, the Intel logo, the Intel Inside mark and logo, the Intel. Experience What's Inside mark and logo, Altera, Arria, Enpirion, Intel, Intel Core, Intel Xeon, MAX, Nios, Quartus and Stratix are trademarks of Intel Corporation or its subsidiaries in the U.S. and/or other countries.

*Other names and brands may be claimed as the property of others.