

Power Integrations Launches InnoSwitch3, a 94%-Efficient Offline Flyback Switcher IC Family

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New InnoSwitch™3 integrated switcher ICs cut losses by 25%, deliver constant efficiency over a wide range of line and load conditions

SAN JOSE, Calif.--(BUSINESS WIRE)-- Power Integrations (Nasdaq: **POWI**), the leader in high-voltage integrated circuits for energy-efficient power conversion, today announced the release of its **InnoSwitch™3** family of offline CV/CC flyback switcher ICs. The new devices achieve up to 94% efficiency across line and load conditions, slashing power supply losses by a further 25% and enabling the development of compact power supplies up to 65 W without heatsinks. InnoSwitch3 devices are ideal for power supplies with challenging energy consumption, footprint or thermal constraints, particularly those targeting mandatory Total Energy Consumption (TEC) specifications.

This Smart News Release features multimedia. View the full release here:

<http://www.businesswire.com/news/home/20170912006528/en/>

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The InnoSwitch3 IC family is optimized into three application-specific series:

- CE: Current External. Includes accurate CC/CV regulation with external output current sense for optimum design flexibility. Targets compact single-voltage chargers, adapters, IoT and building automation.
- CP: Constant Power. Ideal for USB Power Delivery (PD), rapid charging and other applications where a dynamic output voltage is required.
- EP: Embedded Power. Features the family's highest-rated MOSFET (725 V) and provides full line and load

protection with excellent multi-output cross-regulation for demanding industrial applications and appliances.

These newest flyback switcher ICs employ Power Integrations' innovative isolated digital communications technology, **FluxLink™**, plus synchronous rectification, quasi-resonant switching and a precise secondary-side feedback sensing and control circuit. This results in highly efficient, accurate, reliable power supply circuits without the need for optocouplers. InnoSwitch3 devices are CCC, UL and VDE safety-certified to bridge the isolation barrier, and the InSOP™-24 package provides a low-profile, thermally efficient solution with extended 11.5 mm creepage and clearance between primary and secondary sides for high reliability, surge and ESD robustness. The new devices also incorporate a host of protection features, including lossless line overvoltage and under-voltage, output overvoltage, over-power, over-current and over-temperature protection, as well as output rectifier short-circuit protection. Device sub-families are provided with either latching or auto-recovery capability, according to the typical demands of each target application space. All InnoSwitch3 ICs feature on-board high-voltage MOSFETs (rated at 650 V for the CP and CE series and 725 V for the EP series).

Comments Mike Matthews, VP of product development at Power Integrations: "InnoSwitch3 ICs represent a new state of the art in flyback power supply design. These new devices surpass the previously unrivaled efficiency of our InnoSwitch products, reducing losses by a further 25% and delivering the highest available efficiency across all line and load conditions. With unmatched system simplicity and low component count, InnoSwitch3 ICs enable exceptionally compact, reliable power supplies for a vast range of applications."

InnoSwitch3 ICs target adapters and open-frame power supplies for consumer, computer, communication and industrial applications. InnoSwitch3-CP and InnoSwitch3-CE IC samples are available now, priced at \$1.11 (CE) and \$1.15 (CP), in 10,000-piece quantities. InnoSwitch3-EP parts will be available in November 2017 at \$1.18 per 10,000-pieces. An online selection tool, Build Your Own InnoSwitch, is available to help designers customize device features for their particular design specifications. Technical support for InnoSwitch3 ICs, including the PI Expert™ Online design tool, is available from the Power Integrations website at www.power.com/products/innoswitch/.

About Power Integrations

Power Integrations, Inc. is a leading innovator in semiconductor technologies for high-voltage power conversion. The company's products are key building blocks in the clean-power ecosystem, enabling the generation of renewable energy as well as the efficient transmission and consumption of power in applications ranging from milliwatts to megawatts. For more information please visit www.power.com.

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