power integrations

NEWS RELEASE

Power Integrations' New Charger Design for Smart Mobile Devices Showcases High Power Density Capability of InnoSwitch ICs

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10 W CV/CC charger easily meets DOE-6 and European CoC Version 5, Tier 2 efficiency standards at the end of the cable

SAN JOSE, Calif.--(BUSINESS WIRE)-- Power Integrations (Nasdaq: **POWI**), the leader in high-voltage integrated circuits for energy-efficient power conversion, today announced **RDK-420**, a new reference design kit for a 10 W CV/CC USB charger based on the company's revolutionary **InnoSwitch™-CH** family of highly integrated switcher ICs. InnoSwitch ICs combine the primary-side switch together with primary and secondary controllers and feedback circuits into a single, worldwide safety-rated, surface-mount package.

InnoSwitch ICs leverage accurate secondary-side regulation (SSR), using **Power Integrations'** high-speed digital **FluxLink™** technology to communicate direct voltage and current measurements across the safety isolation barrier. This new feedback technique permits precise control without the need for a bulky optocoupler, while avoiding the performance compromises inherent in primary-side regulation (PSR), such as limited accuracy and efficiency and poor transient response versus no-load consumption. Other benefits include: ±3% CV, ±5% CC regulation; cable voltage-drop compensation; built-in synchronous rectification driver for high efficiency; <10 mW no-load input power; and accommodation of transformer manufacturing tolerances.

Comments Shyam Dujari, director of product marketing at **Power Integrations**: "This reference design shows the high power density, high performance and high efficiency that can be achieved using our **InnoSwitch** ICs. The excellent no-load performance is one of the key reasons why several of the world's leading mobile device makers are already in mass production of chargers using **InnoSwitch** ICs."

RDK-420 can be purchased from Power Integrations. A complete reference design report (**RDR-420**) is also available containing the power supply specification, schematic, bill of materials, transformer documentation, printed circuit layout and performance data required to build a 85 VAC – 264 VAC input smart mobile / USB charger with 5 V, 2 A output, measured in accordance with new US Department of Energy standards (DOE-6) and European Union Code of Conduct (CoC) Version 5, Tier 2 at the end of a USB cable. For more details, please visit **http://www.power.com/rdk**.

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**.

Photos/Multimedia Gallery Available: **http://www.businesswire.com/multimedia/home/20150415006584/en/**

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