

Power Integrations' InnoSwitch-CP ICs Dramatically Improve Charging Performance of Smart Mobile Devices

1/13/2016

Constant power profile pairs with Qualcomm Quick Charge, USB-PD and other adaptive-voltage protocols

SHENZHEN, China--(BUSINESS WIRE)-- Power Integrations (Nasdaq:**POWI**), the leader in high-voltage integrated circuits for energy-efficient power conversion, today announced its **InnoSwitch™-CP** family of off-line CV/CC flyback switching ICs. The new devices incorporate a constant power output profile which, when paired with an adaptive-voltage protocol such as Qualcomm® Quick Charge™ 3.0 or USB-PD, permits smart mobile device makers to optimize charging time across a range of products. Developers employing adaptive charging technology achieve dramatically faster charge times, improved charging efficiency and backward compatibility with the popular 5 V USB BC 1.2 specification, all while minimizing overall thermal management and battery charging system cost.

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

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InnoSwitch-CP ICs use Power Integrations' innovative **FluxLink™** technology which enables high-performance secondary-side control to be implemented with the simplicity and low component count usually associated with primary-side regulation. FluxLink technology also optimizes the effectiveness of output synchronous rectification, resulting in extremely high efficiency across the full load range. For example, no-load consumption at 230 VAC is less than 10 mW, while full-load efficiency exceeds 90%. InnoSwitch-CP devices easily meet all global energy efficiency regulations.

Explains Shyam Dujari, director of product marketing at Power Integrations: "The cost of a charger is proportional to its power rating, but the voltage and current required for optimal fast charging of the battery is dependent on

factors such as battery size, chemistry charge level and the thermal environment. By providing a constant power output, InnoSwitch-CP allows battery-operated devices to draw up to the maximum power of the charger at any selected output voltage, optimizing charge time and cost. This allows OEMs to offer consumers shorter charge times and increased device availability, while simplifying the accessory supply chain.”

InnoSwitch-CP ICs incorporate a comprehensive suite of advanced protection features including: OVP; output OCP with 3 V auto restart; hysteretic thermal shutdown and line input overvoltage protection with accurate brown-in/brown-out thresholds. Devices are fully compliant with safety and regulatory standards, including: 100% production HIPOT compliance testing equivalent to 6 kV DC/1 sec; reinforced insulation; and isolation voltage testing to above 3,500 VAC. They are UL1577 and TUV (EN60950) safety approved and EN61000-4-8 (100 A/m) and EN61000-4-9 (1000 A/m) compliant.

Two devices are available. The INN2214K IC delivers 15 W output power for universal voltage chargers and adapters, while the larger INN2215K part delivers up to 22 W for similar applications. **InnoSwitch-CP** samples are available now. Devices are priced at \$0.90 in 10,000-piece quantities. For more information please visit www.power.com/innoswitch-cp/.

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/innoswitch-cp/.

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Source: Power Integrations, Inc.

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