

Power Integrations' New LinkSwitch-3 ICs Meet 2016 DoE 6 EPS Efficiency Regulations for Smartphone and Tablet Chargers

7/23/2014

Highly integrated devices enable charger designs up to 10 W with only 28 components

SAN JOSE, Calif.--(BUSINESS WIRE)-- **Power Integrations** (Nasdaq:**POWI**), the leader in high-voltage integrated circuits for energy-efficient power conversion, today announced the launch of its **LinkSwitch™-3** family of highly integrated monolithic switching ICs. The new devices deliver accurate primary-side regulation for chargers and adapters up to 10 W, making them suitable for smartphones, tablets and other mobile devices, particularly those subject to 30 mW no-load limitations, such as upcoming mandatory US DoE EPS efficiency regulations and EU CoC Tier 2 guidelines.

LinkSwitch-3 ICs simplify CV/CC charger designs by eliminating the need for opto-couplers and secondary-side control circuitry; a 10 W charger, for example, can be implemented using only 28 external components. The new devices provide highly accurate output voltage and current regulation, compensating for transformer and internal parameter tolerances along voltage variation from the AC line. **LinkSwitch-3** ICs incorporate a 725 V power MOSFET, on/off-control state machine, high-voltage switched current source for self-biasing, frequency jittering to minimize EMI, plus cycle-by-cycle current limit and hysteretic thermal shutdown circuitry. The ICs also feature selectable cable drop compensation for improved voltage tolerance over load.

Comments Silvestro Fimiani, senior product marketing manager for **Power Integrations**: "The smart mobile device market is highly dynamic; **LinkSwitch-3** ICs meet all of the most challenging new requirements. In addition to 10 W maximum output power, the new devices meet the anticipated US DoE efficiency regulations, the EU's CoC 2016 Tier 2 guidelines, China's USB charger specification and market demand for 30 mW no-load performance with fast

transient response.”

LinkSwitch-3 switcher ICs are sampling now in **SO-8, eSIP-7 and eSOP-12** packages. The product datasheet is available on the **Power Integrations** website at <http://www.powerint.com/en/products/linkswitch-family/linkswitch-3>.

About Power Integrations

Power Integrations, Inc., is a Silicon Valley-based supplier of high-performance electronic components used in high-voltage power-conversion systems. The company’s integrated circuits and diodes enable compact, energy-efficient AC-DC power supplies for a vast range of electronic products including mobile devices, TVs, PCs, appliances, smart utility meters and LED lights. CONCEPT IGBT driver systems enhance the efficiency, reliability and cost of high-power applications such as industrial motor drives, solar and wind energy systems, electric vehicles and high-voltage DC transmission. Since its introduction in 1998, Power Integrations’ EcoSmart® energy-efficiency technology has prevented billions of dollars’ worth of energy waste and millions of tons of carbon emissions. Reflecting the environmental benefits of the company’s products, Power Integrations’ stock is included in the NASDAQ® Clean Edge® Green Energy Index, The Cleantech Index®, and the Ardour Global IndexSM. For more information, including design-support tools and resources, please visit www.powerint.com; visit Power Integrations’ **Green Room** for a comprehensive guide to energy-efficiency standards around the world.

Power Integrations, LinkSwitch, EcoSmart, and the Power Integrations logo are trademarks or registered trademarks of Power Integrations, Inc. All other trademarks are the property of their respective owners.

Photos/Multimedia Gallery Available: <http://www.businesswire.com/multimedia/home/20140723006458/en/>

Source: Power Integrations, Inc.

Media Contact

Power Integrations, Inc.

Peter Rogerson, 408-414-8573

progerson@powerint.com

or

Press Agency Contact

BWW Communications

Nick Foot, 44 (0) 1491-636 393

nick.foot@bwwcomms.com