

Power Integrations Launches TinySwitch™-4 Off-Line Switcher IC Family

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Integrated, line-compensated overload protection, sub-30 mW no-load performance and unmatched light-load efficiency help designers meet upcoming eco and safety specifications

SAN JOSE, Calif.--(BUSINESS WIRE)-- Power Integrations (NASDAQ: **POWI**), the leading provider of high-voltage integrated circuits for energy-efficient power conversion, today introduced the **TinySwitch-4** family, the latest generation of its industry-leading **TinySwitch** series of off-line switcher ICs. Featuring line-compensated overload power protection, **TinySwitch-4** devices dramatically reduce the maximum overload power that can be delivered into the load over the entire AC input voltage range. The devices incorporate a 725 V MOSFET that easily allows 80 percent de-rating for high reflected voltage and high bus-voltage designs. Efficiency of greater than 70 percent at five percent load enables designers to meet the stringent European standby specifications scheduled to take effect in 2013, while no-load power consumption of less than 30 mW at 230 VAC meets critical energy-saving requirements in the market today.

The line-compensated overload power protection of **TinySwitch-4** ICs is particularly helpful in applications such as PC standby and appliances where unusually high current demands from the load may be indicative of a fault. Prompt action by the power supply to limit the current to a designed maximum value may prevent damage to the circuitry and enhance overall system safety and reliability. The BP/M pin permits the MOSFET current limit to be adjusted up or down, allowing designers to optimize power delivery and efficiency in a variety of physical implementations. An on-time extension function extends the low-line regulation range, enabling hold-up time to be met with lower values of input capacitance. **TinySwitch-4** devices also feature latching output overvoltage protection (OVP) configurable for fast AC reset by connecting the EN/UV pin resistor to the AC input line. Improved auto-restart ensures that power delivery during an output fault is limited to less than 3 percent of full load rating.

Comments Chris Lee, product marketing manager at Power Integrations: "The **TinySwitch** name is synonymous with excellent standby efficiency and ease of design. The high level of integration and comprehensive system-level protection in **TinySwitch-4** ICs enable ultra-simple power supplies that easily meet safety specifications as well as all current and proposed efficiency standards such as ENERGY STAR EPS V2.0 and EC ErP Ecodesign Directive Tier 2. Importantly, **TinySwitch-4** ICs are pin-compatible with existing **TinySwitch-III** devices, simplifying the task of migrating to the upgraded device."

The **TinySwitch-4** family is a scalable family of devices covering an extended power range up to 36.5 W, including such power-supply applications as PC standby and other auxiliary supplies, DVD/PVR and other low-power set-top decoders, appliances, industrial systems, utility meters, and chargers/adapters for mobile and cordless phones, digital cameras, portable audio, etc. Three package options are available: the industry standard PDIP and SOIC packages, and the new SMD eSOP™ package which enables designers to eliminate external heatsinks, instead using PCB copper area for thermal dissipation.

More information is available at <http://www.powerint.com/en/products/tinyswitch-family/tinyswitch-4>, with an engineering report and 20 W demo board design (RDR-295) downloadable at <http://www.powerint.com/sites/default/files/PDFFiles/rdr295.pdf>.

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.

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