

Power Integrations Launches High-Efficiency Power Factor Correction IC Product Family with Integrated Controller/MOSFET

11/9/2010

HiperPFS™ enables dramatic component count reduction, simple EMI filter design, and high efficiency — particularly at light load

MUNICH--(BUSINESS WIRE)-- Power Integrations (Nasdaq: **POWI**), the leader in high-voltage integrated circuits for energy-efficient power conversion, today launched **HiperPFS**, a family of power factor correction (PFC) controllers with integrated high-voltage power MOSFETs. **HiperPFS** devices leverage an innovative control scheme that optimizes efficiency at light load levels. Additionally, compared with designs that use discrete MOSFETs and controllers, **HiperPFS** devices dramatically reduce component count and board footprint while simplifying system design and enhancing reliability. **HiperPFS** devices come in an extremely compact, low-profile eSIP™ package and are suitable for PFC applications from 75 W to 1 kW.

Regulatory moves in Europe, the United States, and elsewhere mandate high power factor for many electronic products with power requirements over 75 W and for lighting products over 5 W. These rules are combined with numerous application-specific standards that require high power supply efficiency across the entire load range, from full load to as low as 10% load. High efficiency at light load is a challenge for traditional PFC approaches in which fixed MOSFET switching frequencies cause fixed switching losses on each cycle, even at light loads.

HiperPFS simplifies compliance with new and emerging energy-efficiency standards over a broad market space in applications such as PCs, LCD TVs, notebooks, appliances, pumps, motors, fans, printers, and LED lighting. Power Integrations' innovative variable-frequency continuous conduction mode of operation (VF-CCM) minimizes switching losses by maintaining a low average switching frequency, while also varying the switching frequency in

order to suppress EMI, the traditional challenge with continuous-conduction-mode solutions. Systems using **HiperPFS** typically save a core size on both the boost choke and common-mode EMI noise suppression choke, reducing overall system size and cost.

Comments product marketing manager David New: "Our innovative variable-frequency, continuous conduction mode controller enables the **HiperPFS** to realize all of the benefits of continuous-conduction mode operation while leveraging low-cost, small, simple EMI filters. Devices in the **HiperPFS** family are clearly leading the industry in light-load efficiency performance. **HiperPFS** provides a highly integrated PFC solution that significantly reduces the number of components on a BOM. Some benchmarked designs have reduced the parts count by 50."

In common with Power Integrations' other power conversion product families, **HiperPFS** includes comprehensive protection features such as integrated soft-start, fault and over-load protection, and hysteretic thermal shutdown.

HiperPFS devices are available now in PI's popular eSIP™ low-profile package priced from \$1.53 each for 10,000-piece quantities. The product datasheet, design ideas, and introductory video are available now on the Power Integrations website at <http://www.powerint.com/hiperpfs>.

About Power Integrations

Power Integrations is the leading supplier of high-voltage integrated circuits used in energy-efficient power conversion. The company's innovative technology enables compact, energy-efficient power supplies in a wide range of electronic products, in AC-DC, DC-DC and LED lighting applications. Since its introduction in 1998, Power Integrations' EcoSmart™ energy-efficiency technology has saved an estimated \$4.4 billion of standby energy waste and prevented millions of tons of CO2 emissions. The company's **Green Room** web site provides a wealth of information about "energy vampires" and the issue of standby energy waste, along with a comprehensive guide to energy-efficiency standards around the world. Reflecting the environmental benefits of EcoSmart technology, Power Integrations is included in clean-technology stock indices sponsored by the **Cleantech Group** (Amex: CTIUS) and **Clean Edge** (Nasdaq: CELS). For more information, please visit www.powerint.com.

Power Integrations, HiperPFS, eSIP, 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/cgi-bin/mmg.cgi?eid=6502872&lang=en>

Power Integrations, Inc.

Peter Rogerson, 408-414-8573 (Media)

progerson@powerint.com

or

Billings Europe PR Agency

Nick Foot, +44 (0) 1491-636 393 (Press Agency)

nick.foot@billings-europe.com

Source: Power Integrations, Inc.

News Provided by Acquire Media