Power Integrations Launches LinkSwitch(R)-CV Constant-Voltage Primary-Side Offline Switcher IC Family

Achieves Less Than 70 mW No-Load Performance for Adapters to 10 W, Powers Appliances and Consumer Products to 17 W

MUNICH, Germany, Nov 11, 2008 (BUSINESS WIRE) -- Power Integrations (NASDAQ:POWI), the leader in high-voltage analog integrated circuits for energy-efficient power conversion, today announced additions to its extremely successful LinkSwitch family of AC/DC switched-mode power conversion ICs. The new LinkSwitch-CV series of devices includes the LNK626PG, the world's highest-power accurate constant voltage (CV) integrated switcher IC with primary-side control. The new devices target applications requiring +/-5% voltage accuracy, such as AC/DC adapters up to 10 W, auxiliary power supplies for appliances up to 17 W and multiple-output supplies for consumer products.

LinkSwitch-CV integrated circuits simplify the design of CV converters by eliminating all secondary-side CV and control-loop compensation circuitry, significantly reducing the system cost. System reliability is greatly increased by the elimination of the optocoupler. Moreover, the new devices feature extremely high energy efficiency, beating ENERGY STAR 2.0 specifications for external power supplies by 10% across the entire load range and consuming under 70 mW in no-load mode. The new devices combine a 700V power MOSFET, on/off control state machine, self-biasing circuit, frequency jittering, cycle-by-cycle current limit and hysteretic thermal shutdown circuitry.

Comments Silvestro Fimiani, product manager at Power Integrations: "The LinkSwitch-CV dramatically simplifies the design of constant-voltage offline power converters. The high power level achievable with the LinkSwitch-CV is due to continuous conduction mode operation, which optimizes utilization of the integrated transistor. The 700V MOSFET rating allows clampless designs using the LinkSwitch-CV LNK623 and LNK624, further reducing system cost." Continued Fimiani: "LinkSwitch-CV provides excellent cross-regulation for multiple-output flyback applications, such as DVDs, set-top boxes and auxiliary power supplies used in appliances."

As well as being extremely energy-efficient, all LinkSwitch-CV family members are produced in halogen-free, RoHS-compliant packaging. LinkSwitch-CV IC packages feature a high creepage distance to the high-voltage drain pin which improves reliability in white goods and industrial applications. LinkSwitch-CV devices are available immediately from $0.64 ea in 10,000 unit quantities.

Power Integrations' Green Room web site (www.powerint.com/greenroom) contains information on the issue of energy waste from inefficient power supplies, as well as tips on how to minimize the amount of energy wasted by household and office electronics. The Green Room also provides a comprehensive guide to energy-efficiency standards around the world, as well as a host of reference designs and software to assist in the design of energy-efficient power supplies.

Picture available here (http://www.powerint.com/sites/default/files/images/prphotos/ 300dpi/LinkSwitchCV_IMG_final.jpg). (Due to its length, this URL may need to be copied/pasted into your Internet browser's address field. Remove the extra space if one exists.)

About Power Integrations

Power Integrations is the leading supplier of high-voltage analog integrated circuits used in energy-efficient power conversion. The company's breakthrough integrated-circuit technology enables compact, energy-efficient power supplies in a wide range of electronic products, in AC-DC, DC-DC and LED lighting applications. The company's EcoSmart(R) energy-efficiency technology, which dramatically reduces energy waste, has saved consumers and businesses around the world more than an estimated $3 billion on their electricity bills since its introduction in 1998. Reflecting the environmental benefits of EcoSmart technology, the company's stock is included in clean-tech stock indices sponsored by Nasdaq (Nasdaq:CELS) and the American Stock Exchange (AMEX:CTIUS). For more information, visit the company's website at www.powerint.com.

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