

Power Integrations' LYTSwitch LED-Driver ICs Improve Performance of Commercial Lighting and Deliver Excellent Dimming for Consumer Bulb Applications

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New IC family delivers fast start-up with no pop-on, no dead travel

SAN JOSE, Calif.--(BUSINESS WIRE)-- **Power Integrations** (NASDAQ: **POWI**), the leader in high-efficiency, high-reliability LED driver ICs, today introduced its latest family of LED-driver ICs, aimed at consumer, commercial and industrial lighting applications. The new **LYTSwitch™** IC family delivers tight regulation and high efficiency for tube replacements and high-bay lighting, while providing exceptional performance in TRIAC-dimmable bulb applications.

LYTSwitch ICs combine PFC and CC into a single switching stage, increasing driver efficiency to more than 90% in typical applications, delivering a power factor greater than 0.95 and easily meeting EN61000-3-2C requirements for total harmonic distortion (THD). Optimized designs deliver less than 10% THD. The combined single-stage converter topology also eliminates high-voltage electrolytic bulk capacitors, leading to greatly extended driver lifetimes even in high ambient temperatures. Accurate primary-side control yields true tight CC performance with better than +/- 5 percent regulation across load, a wide temperature range and production variation enabling tighter design margins and reduced system cost. High switching frequency of 132 kHz means that small, low-cost magnetics can be used in space-constrained bulb applications, while frequency jittering ensures reduced EMI filter requirements. **LYTSwitch** devices also offer all the usual safety features common to **Power Integrations** products, including overvoltage, overcurrent and over-temperature protection.

The **LYTSwitch** family of LED-driver ICs enables excellent dimming performance when used with leading-edge and trailing-edge TRIAC dimmers, even at low conduction angles, easily complying with NEMA SSL6. Start-up is very fast,

typically less than 500 ms, even when dimmed to less than 10% output. Bulbs using **LYTSwitch** ICs will turn on at almost the same dimming angle as it was at turn-off, virtually eliminating pop-on. Dead band in TRIAC dimming is also eliminated as the **LYTSwitch** controller ensures that dimming occurs as soon as the dimmer is operated.

Comments Andrew Smith, senior product marketing manager for **Power Integrations**: "LYTSwitch ICs enable small, longer-lasting lamps for a wide range of applications including consumer bulbs, commercial lighting and T8 tubes, industrial, high-bay and exterior lighting. Tight CC performance across a wide range of operating conditions greatly simplifies design and reduces cost while ensuring that lamps deliver uniform light output."

LYTSwitch IC samples in **eSIP-7C** (E package) and **eSIP-7F** (L package) are available now, priced from \$0.70 to \$1.60 in 10,000-piece quantities. Reference designs, including a PAR-38 lamp design developed in partnership with Cree, are downloadable at <http://www.powerint.com/en/design-support/reference-designs/design-examples>. The product datasheet and product introduction videos are also available on the **Power Integrations** website at <http://www.powerint.com/products/lytswitch-family/lytswitch>.

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 \$5 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'** stock is included in The Cleantech Index® and the NASDAQ® **Clean Edge**® Green Energy Index. For more information, please visit www.powerint.com.

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