

Power Integrations Adds High-Line Parts to LYTSwitch-4 LED-Driver IC Family

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Optimizes performance for Asian, European lighting markets; delivers excellent dimming

SAN JOSE, Calif.--(BUSINESS WIRE)-- **Power Integrations** (Nasdaq: **POWI**), the leader in high-efficiency, high-reliability LED-driver ICs, today added devices optimized for high-line applications, completing the roll-out of its **LYTSwitch™-4** LED-driver IC family. **LYTSwitch-4** ICs deliver accurate output current and high efficiency for bulb and tube applications and high-bay lighting. The devices simplify design and reduce cost while ensuring that lamps deliver uniform light output and provide exceptional performance in TRIAC-dimmable applications.

LYTSwitch-4 ICs feature a combined PFC and CC single-stage converter topology resulting in a power factor greater than 0.95 and efficiencies of over 90% in typical applications. Designs based on the new drivers easily meet EN61000-3-2C regulations for total harmonic distortion (THD); optimized designs deliver less than 10% THD. Regulation is better than +/- 5% across load and production spread, reducing the need for over-design to meet minimum luminance targets, cutting system cost. The devices' high switching frequency (132 kHz) enables smaller, lower-cost magnetics to be used, and frequency jittering reduces EMI filtering requirements. These factors enable LED-driver designs to fit easily into space-restricted bulb styles.

Comments Andrew Smith , senior product marketing manager for **Power Integrations**: "**LYTSwitch-4** LED-driver ICs have proven very popular since the initial launch of the low-line parts, due to a combination of efficiency and excellent dimming performance. Even when used with leading-edge and trailing-edge TRIAC dimmers, and at low conduction angles, designs comply with NEMA SSL-7. Start-up is very fast, typically less than 500 ms, even when dimmed to less than 10% light output, and pop-on is virtually eliminated."

Designers can evaluate the new **LYTSwitch-4** LED-driver IC family using a new high-line LED lighting reference

design that has been co-developed with Cree. **DER-396** describes a PAR38 spotlight LED driver design. These documents and all other similar reference designs with Cree are hosted at <http://www.powerint.com/ledrivers/cree>.

LYTSwitch ICs enable small, longer-lasting lamps in a wide range of applications including consumer bulbs, commercial lighting and T8 tubes, industrial, high-bay and exterior lighting. **LYTSwitch** devices also offer all the usual safety features common to Power Integrations products, including over-voltage, over-current and over-temperature protection. In addition **LYTSwitch** devices do not need an optocoupler or electrolytic bulk capacitors, reducing component count and increasing reliability. High-line **LYTSwitch-4** ICs are sampling now in eSIP-7C (E) and eSIP-7F (L) packages, priced from \$0.58 (non-dimming) to \$0.62 (dimming) in 10,000-piece quantities. Reference designs are downloadable at <http://www.powerint.com/en/design-support/reference-designs/design-examples>. Product datasheet and product introduction videos are also available on the **Power Integrations** website at <http://www.powerint.com/products/lytswitch-family/lytswitch-4>.

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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