

TRIAC-Dimmable LYTSwitch-7 LED Driver ICs From Power Integrations Cut BOM Count by 40%

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Bleeder-less, highly efficient, robust IC family serves bulbs, tubes and fixtures up to 22 W

SAN JOSE, Calif.--(BUSINESS WIRE)-- Power Integrations (Nasdaq:**POWI**), the leader in high-efficiency, high-reliability LED driver ICs, today announced its **LYTSwitch™-7** single-stage, non-isolated, TRIAC-dimmable, buck topology LED driver IC family. Capable of delivering up to 22 watts without a heatsink in a very small SO-8 footprint, these high-efficiency devices are suitable for bulbs, tubes and fixtures. LYTSwitch-7 designs do not require bleeders; employing simple, passive damping for TRIAC management and an off-the-shelf, single-winding inductor, reducing component count to just 20, as compared to approximately 35 parts for typical dimmable LED driver boards.

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<http://www.businesswire.com/news/home/20160719006602/en/>

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(Photo: Business Wire)

LYTSwitch-7 ICs deliver a phase-cut (TRIAC) dimming solution with a wide dimming range and

monotonic dimming response. The LED drivers enable efficiency of greater than 86% - around 2% higher than conventional dimmable products - with high PF, accurate regulation and comprehensive protection. They suit low- or high-line input as well as wide-range universal-input designs for U.S. commercial lighting applications, which operate from 90 VAC to 305 VAC with TRIAC dimming enabled in low-line installations.

Comments Hubertus Notohamiprodjo, director of product marketing at Power Integrations: "Our new **LYTSwitch-7** LED driver ICs provide a highly robust solution while requiring a BOM count that is approximately 40% less than conventional circuits. The internal 725 V MOSFET delivers better withstand performance during line surges, while

the bleeder-less design has high TRIAC compatibility but does not produce wasted heat, resulting in a more efficient and reliable driver.”

Like all Power Integrations LED drivers, **LYTSwitch-7** ICs have a host of protection features including thermal foldback with end-stop shutdown, which protects the IC, driver and fixture at abnormally-high ambient temperatures by automatically reducing the current flow and dimming the lamp. Developers find that thermal foldback is the key to reducing costs associated with over-design of both electrical and mechanical components to meet reliability goals since the IC automatically limits unusual temperature excursions without extinguishing the lamp. Devices are also protected from open- and short-circuit conditions, input and output OV, overcurrent and SOA. **LYTSwitch-7** ICs meet international standards including: DOE Level 6 (external power supply), CEC Titles 20 and 24, ENERGY STAR® Lamps Program Requirements Version 2.0, NEMA SSL-7A and EN61000-3-2 (C&D).

Key applications include low-cost A19 lamps, small-form-factor lamps such as candle-style and GU10 bulbs, commercial & industrial applications, ceiling lamps and downlight fixtures. **LYTSwitch-7** IC samples are available now. Devices are priced at \$0.33 in 10,000-piece quantities. Two reference designs (DER-539 and DER-540) are available for download now from the Power Integrations website at <https://www.power.com/lytswitch-7>.

About Power Integrations

Power Integrations, Inc. is a leading innovator in semiconductor technologies for high-voltage power conversion. The company’s products are key building blocks in the clean-power ecosystem, enabling the generation of renewable energy as well as the efficient transmission and consumption of power in applications ranging from milliwatts to megawatts. For more information please visit www.power.com.

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