

Power Integrations Announces LED Driver Reference Design for High-Efficiency Universal-Voltage Fluorescent Tube Replacement

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New design delivers > 90% efficiency, operates from 90 VAC up to industrial 308 VAC input voltage; meets worldwide power factor and THD requirements

SAN JOSE, Calif.--(BUSINESS WIRE)-- Power Integrations (NASDAQ:**POWI**), maker of the world's most efficient, longest-lasting off-line LED driver ICs, today announced a new reference design (**DER-286**) describing a 30 W LED tube replacement ballast power supply capable of achieving industry-leading efficiency levels of over 90% across a wide input-voltage range while meeting worldwide requirements for power factor (PF) and total harmonic distortion (THD).

The **DER-286** LED driver reference design is based on the LNK419EG, a member of Power Integrations' **LinkSwitch™-PH** family of ICs. **LinkSwitch-PH** devices combine a controller and 725 V MOSFET to dramatically reduce the complexity and component count of the design, making it ideal for the increasingly cost-sensitive market for LED-based fluorescent-tube replacements. The **LinkSwitch-PH** device performs both PFC and constant-current functions in an advanced single-stage topology, eliminating the need for large, temperature-sensitive electrolytic bulk capacitors, which in turn reduces the size and increases the lifetime of the power supply.

Comments Andrew Smith, product marketing manager at Power Integrations: "Many end users prefer the convenience of a single inventory item that can support installations operating from the U.S. residential supply of 90 VAC to 120 VAC and also the high nominal voltage 277 VAC services of industrial applications. This is easy to achieve using LED tubes and ballasts based on the **LinkSwitch-PH** device." Smith continued: "EISA regulations due to be implemented in 2012 advance the minimum luminous efficacy of fluorescent tubes, severely challenging the

large T12 type and serving notice on T8 and T5 tubes with inefficient older ballasts. LED luminaires based on our **LinkSwitch-PH** ICs, such as **DER-286**, are an efficient, cost-effective and reliable replacement technology. "

DER-286 is available at <http://www.powerint.com/sites/default/files/PDFFiles/der286.pdf>.

About Power Integrations

Power Integrations, Inc., is a Silicon Valley-based supplier of high-voltage integrated circuits and other high-voltage components used in energy-efficient power conversion. The company's innovative technologies enable compact, reliable AC-DC power supplies for a vast range of electronic products including mobile devices, TVs, PCs, appliances, smart utility meters and LED lights. 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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