

Power Integrations Announces Industry's First LED-Driver Design for Replacement of 100 W A19 Incandescent Bulbs

3/20/2012

93% efficient; low BOM cost; easily meets international standards

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 an LED-driver reference design for high-power LED bulb replacement. The driver can deliver the power required for a 100 W incandescent bulb replacement in an A19 form factor - an industry first. **DER-322** describes a non-isolated, 93% efficient, high-power-factor (PF) LED driver designed to drive a nominal LED string voltage of 78 V at 230 mA from an input voltage range of 195 VAC to 265 VAC (47 Hz — 63 Hz). The LED driver utilizes the very low-profile LNK460VG from the **LinkSwitch™-PL** family of ICs from Power Integrations.

DER-322 fits neatly inside the A19 form factor, is EN61000-3-2 C (D) compliant and easily passes THD limits. With a PF above 0.95, it suits commercial as well as consumer applications. With PFC and CC conversion combined into a single switching stage, the design has a very low component count, which enables miniaturization, lowers cost and increases reliability. It also eliminates short-lived electrolytic input bulk capacitors.

Comments Andrew Smith, product marketing manager at Power Integrations: "With an 8-10% efficiency advantage over older solutions, **DER-322** provides a compelling option for lighting engineers working toward the landmark achievement of a commercially viable A19-sized replacement for the 100 W incandescent bulb. With LED efficacies continuing to improve, this important milestone will soon be within reach. In the meantime, the **LinkSwitch-PL** family of ICs easily enables production of cost-effective replacements for 60 W and 75 W bulbs."

Suitable for an A19 incandescent bulb replacement-driver but also reconfigurable as a T8 tube replacement driver,

DER-322 is of interest to designers of both high-end LED lighting and those working on cost optimization of bulbs for retail sale. The reference design may be easily modified to support TRIAC dimming. The engineering report for **DER-322** is freely downloadable from Power Integrations website at <http://www.powerint.com/sites/default/files/PDFFiles/der322.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.

Power Integrations, LinkSwitch, EcoSmart, and the Power Integrations logo are trademarks or registered trademarks of Power Integrations, Inc. All other trademarks are the property of their respective owners.

Power Integrations, Inc.

Peter Rogerson, 408-414-8573 (Media)

progerson@powerint.com

or

Billings Europe PR Agency

Nick Foot, +44 (0) 1491-636 393

nick.foot@billings-europe.com

Source: Power Integrations, Inc.

News Provided by Acquire Media