



## Power Integrations' PSU Design Kit Enables LED Lightbulbs That Pass EMC Rules

### Ultra-small PSU Fits in LED Lightbulb Socket, LED Lightbulbs Can Now Meet EMC Requirements

SAN JOSE, Calif., Feb. 20, 2007 (PRIME NEWSWIRE) -- Power Integrations (Other OTC:POWI.PK), the leader in high-voltage analog integrated circuits for power conversion, today introduced a reference design kit (RDK-131) for ultra-small power supplies that helps designers deliver energy-efficient LED alternatives to power-hungry incandescent lights. The kit helps designers produce a power circuit that fits inside the LED lightbulb socket, and also ensures that their incandescent-replacement LED lightbulbs will pass EMC requirements for conducted and radiated electrical noise. Unlike incandescent light sources, which can be powered directly from the mains supply, each LED lightbulb requires a power supply to be incorporated within the Edison (E27) or Bayonet (GU10) sockets.

According to Don Ashley, product marketing manager for AC-DC products at Power Integrations: "Producing a power circuit that fits within such a small space is not a trivial task, especially if you effectively attenuate EMI to the current standards. To address the size constraints posed by this application, Power Integrations has released its LinkSwitch-TN family of non-isolated offline switcher ICs in tiny SO-8 packaging. Our RDK-131 incorporates this device in a tested, working power supply board and offers a blank PCB, extra samples of the LinkSwitch-TN ICs and guidelines on how to design LED lighting supplies around our ICs. This kit significantly simplifies the task of designing LED lights, reducing their time to market."

Because electricity generation accounts for around 40 percent of greenhouse gas emissions, regulatory bodies and authorities worldwide are looking at ways to reduce energy wastage. For example, in a recent address (Reuters/Yaho Wednesday, January 31, 2007), California Assemblyman Lloyd Levine commented: "Incandescent lightbulbs were first developed almost 125 years ago, and remain incredibly inefficient, converting only about five percent of the energy they receive into light." If his proposed bill, the 'How Many Legislators Does it Take to Change a Lightbulb Act,' is passed, incandescent bulbs would be banned for use in California by 2012. By contrast, LED lightbulbs consume about one-third as much power as incandescents, and have a much longer life.

The RDK-131 is priced at \$100.00 and is available at <http://www.powerintsamples.com>. For a complete listing of PI's energy-efficient circuits, see <http://www.powerint.com/appcircuits.htm>.

#### About Power Integrations

Power Integrations is the leading supplier of high-voltage analog integrated circuits used in power conversion. The company's breakthrough integrated-circuit technology enables compact, energy-efficient power supplies in a wide range of electronic products, in both AC-DC and DC-DC applications. The company's EcoSmart<sup>®</sup> energy-efficiency technology, which dramatically reduces energy waste, has saved consumers and businesses around the world more than an estimated \$2 billion on their electricity bills since its introduction in 1998. For more information, visit the company's website at <http://www.powerint.com>.