

Controller ICs promise smaller, greener power adapters to 40 W



iWatt, Inc. debuted its newest PrimAccurate controller platform. According to the company, the new iW1699 and iW1760 digital pulse width modulation (PWM) controllers allow power adapter designers to meet stringent emerging global energy regulations for AC/DC power adapters, which require them to consume less than 100 mW standby power, with the added benefits of a lower BOM (bill of materials) cost, and smaller overall adapter size. The iW1699 is optimized for applications up to 12 W with low standby power of <30 mW to address the needs of smart phone and media tablet applications. The iW1760 is designed for applications requiring higher power, up to 40W, with <50 mW standby power, including set top boxes, home networking devices, and a wide range of household appliances. Both parts use iWatt's patented PrimAccurate primary-side control. This technology uses proprietary digital algorithms to eliminate the need for a secondary side regulator and optical feedback isolator. It enables accurate control of the output over a wide range of operating conditions, and ensures tight load and line regulation, along with full protection from fault conditions, without costly additional components.

iWatt, Inc.

408-374-4200, www.iwatt.com [1]

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