

# Power Integrations Teams with Qualcomm Technologies on Rapid-Charging Technology for Mobile Devices

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New CHY100 IC enables smart AC-DC wall chargers for Qualcomm Quick Charge 2.0 platform; cuts charge times for smartphones and tablets by up to 75%

SAN JOSE, Calif.--(BUSINESS WIRE)--Power Integrations (Nasdaq: POWI), the leader in high-voltage integrated circuits for energy-efficient power conversion, today introduced **CHY100**, the first AC-DC wall-charger interface IC that enables designers of mobile devices to implement the Quick Charge 2.0 protocol from Qualcomm Technologies, Inc. (Nasdaq:QCOM), a wholly owned subsidiary of Qualcomm Incorporated. Launched earlier this year, Quick Charge 2.0 enables users to charge mobile devices up to 75% faster than when using conventional technology, while maintaining backwards compatibility and interoperability with existing USB charging standards (USB BC1.2).

Power Integrations CHY100, the first AC-DC wall-charger interface IC that enables designers of mobile devices to implement the Quick Charge 2.0 protocol from Qualcomm (Photo: Business Wire)

Used in combination with **Power Integrations'** AC-DC switcher ICs, the **CHY100** incorporates all the necessary elements required to

add Quick Charge 2.0 functionality to AC-DC wall chargers. The **CHY100** detects commands from a Quick Charge 2.0-enabled device, such as a cellphone handset, and adjusts the output of the AC-DC wall charger to enable increased power delivery to the device's battery. When plugged into a powered device without Quick Charge 2.0 capability, the **CHY100** automatically disables the higher-voltage/higher-power capability to ensure safe operation. Tests confirm that smartphones with high-capacity batteries can be fully charged in as little as one hour using Quick Charge 2.0 – an impressive improvement from the four-hour charging cycles characteristic of conventional USB

charging technology.

Comments Abid Hussain, director of product management at Qualcomm Technologies, Inc.: "We chose Power Integrations as the lead strategic partner for our Quick Charge 2.0 program which was launched earlier this year. We are delighted that they were able to deliver a spec-compliant, production-ready IC for AC-DC wall adapters in less than six months, enabling OEMs and adapter makers to implement Quick Charge 2.0 immediately. Qualcomm's Quick Charge 2.0 allows mobile devices to be charged up to 75% faster and it is rapidly becoming the industry-wide standard for cell phones and tablets."

Adds Balu Balakrishnan, CEO of **Power Integrations**: "Qualcomm Technologies' Quick Charge 2.0 technology represents a major step forward for users of mobile devices. As devices have become increasingly power-hungry, OEMs have responded by designing in larger, longer-lasting batteries. Unfortunately, the limited power-delivery capabilities of standard wall chargers has led to longer charge times, resulting in increased downtime for users. Qualcomm Technologies' Quick Charge initiative helps resolve the charging bottleneck, and we are delighted to be a part of the solution."

The **CHY100** is suitable for battery chargers for smartphones, tablets, netbooks, digital cameras and Bluetooth® accessories as well as USB power output ports. Devices are available in SOIC-8 packaging and cost \$0.22 each in 10K quantities. Visit <http://www.powerint.com/CHY100> for more information. More information on Qualcomm Quick Charge technology can be found here: <http://www.qualcomm.com/chipsets/quick-charge>

## About Power Integrations

**Power Integrations, Inc.**, is a Silicon Valley-based supplier of high-performance electronic components used in high-voltage power-conversion systems. The company's integrated circuits and diodes enable compact, energy-efficient AC-DC power supplies for a vast range of electronic products including mobile devices, TVs, PCs, appliances, smart utility meters and LED lights. CONCEPT IGBT driver systems enhance the efficiency, reliability and cost of high-power applications such as industrial motor drives, solar and wind energy systems, electric vehicles and high-voltage DC transmission. 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](http://www.powerint.com); visit Power Integrations' **Green Room** for a comprehensive guide to energy-efficiency standards around the world.

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