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ConvenientPower Debuts WoW^Z, World's First Resonance Wireless Charging Of In-The-Market Qi Mobile Phones, Increasing Charging Distance and Efficiency

Innovative solution powers more efficient wireless charging at longer distances, easing barriers to adoption in a wide range of use cases

Larger charging distances makes it easier to use wireless charging through smartphone accessories such as cases, in furniture, in game peripherals and in wearables

SAN FRANCISCO--([BUSINESS WIRE](#))--[ConvenientPower](#) today announced the debut of WoW^Z, the world's first magnetic resonance technology to wirelessly charge Qi mobile phones at distances of up to 18mm, three times more than today's Qi solutions allow.

Wireless charging at longer distances, with greater efficiency, and with reduced heat generation and energy consumption, has been a demand by consumers and wireless operators in the use of thicker mobile device sleeves and covers because they add to the height through which charging takes place. Until now, increasing the charging distance through resonance wireless power technology resulted in lower efficiency and has used non-commercialized resonant mobile devices. When increasing the charging distance through induction wireless power technology, the use of repeaters increased installation complexity and cost, a concern to industries implementing wireless charging in public locations, furniture, cars, and planes.

"WoW^Z delivers resonant charging up to 18 millimetres distance with 65% charging efficiency, without need for an additional repeater component, and at no extra cost to existing 5 millimetre distance charging platforms. Installation complexity is also minimized. This is a breakthrough in simplicity and performance in wireless charging," said Camille Tang, President, ConvenientPower.

"Together the WoW^Z and WoW⁵ distance and simultaneous multiple device wireless charging demonstrate spatial freedom in height, breadth and length respectively. ConvenientPower's productization optimizes across wireless charging technologies for a differentiating user experience and design freedom."

WoW^Z scales up the wireless charging distance which is valuable for applications such as mobile phone accessories, furniture, game peripherals, smart glasses and watch wearables, where thicker or odd form factors require charging at longer distances.

ConvenientPower WoW^Z will be demonstrated at CES 2014 Las Vegas Convention Center, Booth SL-2 in the South Hall 3 lobby, located on the upper level.

WoW^Z breakthrough features include:

- **Charging distance "Z" with efficiency** Charges Qi devices with a Z-height of 18 millimetres and at 65% efficiency.
- **Safe** Complies with same regulatory requirements as Qi chargers.
- **Compatible with Qi certified devices** Works with Qi devices available in the market
- **Compatible with RF (Radio Frequency) sensitive applications – cars, planes** Increases design and materials choices for in-car charging simplicity and usability, compatible with same regulatory requirements for Qi chargers in the automotive industry.

- **Compatible with same voltage range as Qi chargers** No higher input voltage needed

Backed by more than 197 leading companies of the [Wireless Power Consortium](#), Qi is the global standard for wireless charging which is now integrated in over 414 products, ranging from smartphones, phablets, tablets to charging pads, gaming controllers, Bluetooth headsets, even automobile consoles in 2014 model Toyotas and Jeeps. Millions of Qi-enabled mobile phones from Google, Nokia, Samsung, LG, HTC, Motorola and others are being sold by carriers including Verizon, AT&T, China Mobile, NTT DoCoMo, O2, Sprint and Telefónica.

Shipments of wireless power enabled devices are projected to grow to US\$ 33.6 billion by 2019, according to WinterGreen Research, "Wireless Phone Chargers: Market Shares, Strategy and Forecasts, Worldwide, 2013 – 2019 ", October 2013.

About ConvenientPower

ConvenientPower is a global leader and innovator in wireless power charging intellectual property and productization. Offering customized and standard wireless charging solutions, ConvenientPower co-architected "Qi," the world's universal standard for compatible wireless charging. Its world first's include wireless charging of up to five mobile devices simultaneously, automotive integration of wireless charging in the Toyota Avalon (available now also in the Prius) in partnership with Philips Lite-On Digital Solutions; the first Apple "Made For iPhone" certified Qi wireless charging products and the first wireless power products with partners in key markets of the USA, Japan, China and Europe. ConvenientPower Group is headquartered in Hong Kong and additional information can be found at www.convenientpower.com