

## Transphorm's 600V GaN Power Conversion Adopted by Delta Electronics

*Leading GaN (Gallium Nitride) innovator continues to attract global customers across multiple applications*

**Goleta, CA** – November 14th, 2013 – Transphorm Inc. today announced that it has been invited to present at Delta Electronics' exclusive Power Design Engineering event in Shanghai, to be held Nov. 22<sup>nd</sup>, 2013. Transphorm will present its JEDEC-qualified GaN (Gallium Nitride) on Silicon HEMT (high electron mobility transistor) products and applications based on its proprietary EZ-GaN™ technology. Transphorm's participation as the only invited external supplier at this internal event, where Delta will share technology insights across a variety of areas at its Hangzhou Design Center (HDC) and Shanghai Design Center (SDC), will allow Delta's engineering force to proliferate the adoption of 600V GaN products in applications ranging from power supplies to various other inverters/converters.

Transphorm has established the industry's first qualified 600V GaN device platform with its TPH3006PS GaN HEMT. The GaN transistor combines low switching and conduction losses, offering reduced energy loss of 50 percent compared to conventional silicon-based power conversion designs. The TO-220-packaged device features  $R_{DS(on)}$  of 150 mΩ,  $Q_{rr}$  of 56 nC and high-frequency switching capability that enables compact lower cost systems.

"We have long recognized Gallium Nitride as providing unprecedented power conversion efficiency as well as reduced form factor in systems," said Dr. Alpha Zhang, Director of Delta SDC/HDC and Vice Chairman of China Power Supply Society. "Today this great promise has become a reality with Transphorm's GaN products. With the proof that high-voltage GaN on Si is qualified and available for production, we look forward to realizing the benefits of GaN being implemented into real power products in the marketplace."

Transphorm's efficient, compact and easy-to-embed solutions simplify the design and manufacturing of a wide variety of electrical systems and devices, including power supplies and adapters, PV Inverters for solar panels, motor drives and power conversion for electric vehicles. Transphorm's proprietary EZ- GaN™ platform can reduce power system size, increase energy density and deliver high efficiencies across the grid. For customers looking for a low-risk roadmap to the next generation of power conversion technology, EZ- GaN™ provides a cost-effective, customizable and easy-to-use solution ready for commercial scale. For more information about Transphorm, visit [www.transphormusa.com](http://www.transphormusa.com).

### About Transphorm

Transphorm is redefining electric power conversion, providing cost-competitive and easy-to-embed power conversion modules that reduce costly energy loss by more than 50 percent, and simplify the design and manufacturing of motor drives, power supplies and inverters for solar panels and electric vehicles. From material technology and device fabrication to circuit design and module assembly, Transphorm designs and delivers its power conversion devices and modules to meet the needs of global customers. By creating an ecosystem of electrical systems manufacturers powered by Transphorm, the company accelerates the

adoption of application-specific power modules and paves the way for the next generation of electrical systems designed for optimal efficiency.

### **About Delta**

Delta Group, founded in 1971, is the global leader in power and thermal management solutions. Our mission statement, “To provide innovative, clean and energy-efficient solutions for a better tomorrow,” focuses our role in addressing key environmental issues such as global climate change. As an energy-saving solutions provider, Delta's businesses encompass power electronics, energy management, and smart green life. Delta has sales offices worldwide, with R&D centers and manufacturing facilities in Taiwan, China, USA, Europe, Thailand, Japan, Singapore, India, Mexico, and Brazil. Since 2011, Delta has been selected as Dow Jones Sustainability Indexes (DJSI)'s World Index for three consecutive years, including the recent 2013 released DJSI for emerging markets.

For detailed information on Delta Group, please visit: [www.deltaww.com](http://www.deltaww.com).

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