

ENPOWER first to adopt Infineon's latest 750 V automotive-grade discrete IGBT EDT2 devices

Munich, Germany – 1 June, 2022 – Zhuhai ENPOWER Electric Co., Ltd. (ENPOWER), a China based leading supplier of inverters for the automotive industry, is the first to integrate the latest 750 V automotive-grade IGBTs [AIKQ120N75CP2](#) and [AIKQ200N75CP2](#) from Infineon Technologies AG (FSE:IFX / OTCQX: IFNNY). The discrete IGBT EDT2 devices in TO-247PLUS package enable performance boosts and system cost savings in main inverter applications and DC link discharge switches of electric vehicles. Additionally, they offer greater design freedom for achieving system integration targets.

“ENPOWER firmly follows the technology route of designing motor control units (MCUs) with discrete components, and continuously develops products that are both good and cost-advantageous, therefore to always maintain the competitive advantage of our MCUs in the market,” said Liu Hongxin, ENPOWER’s R&D director of MCU. “Infineon’s industry-leading discrete IGBTs are compatible with the last generation in terms of packaging. Together with the high current density, ultra-low saturation voltage drop and very good parallel performance, power density of our products has increased by more than 20 percent, further improving competitiveness of our products.”

“We are very happy about this close and successful collaboration with ENPOWER. This project further highlights our strong position in the inverter application,” said Dr. Robert Hermann, Product Line Head for Automotive High Power Discretes and Chips at Infineon. “Leveraging our technology expertise and system understanding allows us to bring innovative solutions to the market perfectly matching customers’ needs.”

The benchmark EDT2 technology has been introduced to the market very successfully. It is available in a TO247 package optimized for automotive discrete traction inverters. The new 120 A and 200 A (at 100°C) product variants expand Infineon's portfolio of discrete high-voltage devices for automotive applications. Discrete based inverters are beneficial in terms of scalability, flexibility and overall system cost.

For the Trade Press: INFATV202205.088e

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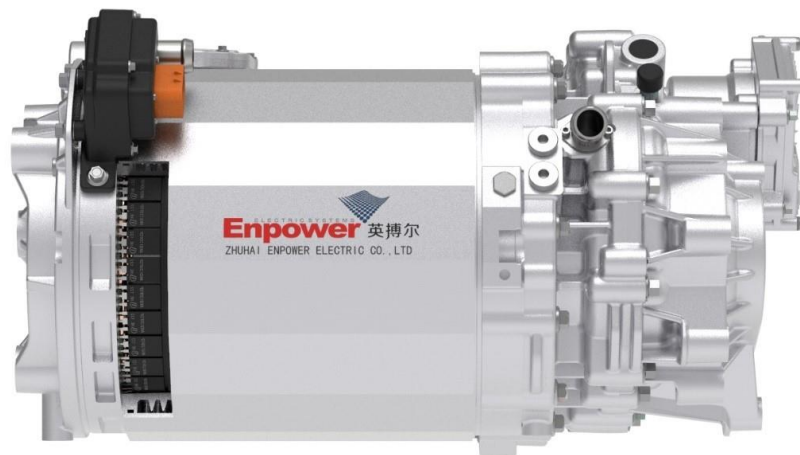
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Additionally, the 750 V EDT2 technology enables high-performance system designs. With a rated current of 200 A, the AIKQ200N75CP2 is the best-in-class discrete IGBT in a TO247Plus package. Thus, for a defined target power class, fewer devices are needed in parallel, power density can be increased and system costs reduced. Due to the high quality, Infineon's IGBTs are significant building blocks for dependable inverter systems.

About ENPOWER:

Zhuhai Enpower Electric Co., Ltd (ENPOWER) is a leading Chinese enterprise focusing on the R&D and production of new energy vehicle power systems. The product offering comprises of core components and services of new energy vehicle power system such as drive motor, motor controller, vehicle charger, DC-DC converter for Geely Automobile, SAIC-GM-Wuling, Changan Automobile, BAIC, JAC, Weimar, Xiaopeng, Ford, ZF, etc. The products are used in all new energy vehicles, hybrid models, construction machinery, off-road vehicles and other fields.



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