Market News

EconoDUAL™ 3 modules with TRENCHSTOP™ 1700 V IGBT7 enable highest power densities

Munich, Germany – 6 May, 2022 – Infineon Technologies AG (FSE: IFX / OTCQX: IFNNY) today launched the new TRENCHSTOP™ 1700 V IGBT7 chip in the standard industrial package EconoDUAL™ 3. With this new chip technology, the EconoDUAL 3 provides a leading current of 900 A and 750 A, and enables an improved power range for inverters. The modules target a wide range of applications including wind, drive and static VAR generators (SVG).

Compared to modules with the previous IGBT4 chipset, the FF900R17ME7_B11 with the TRENCHSTOP IGBT7 chip enables up to 40 percent higher inverter output current in the same package size. The new 1700 V IGBT7 modules also feature significantly lower static and dynamic losses while addressing applications with prevailing static losses in diode chips. In addition, the new chip technology offers enhanced du/dt controllability and improved diode softness. Induced by cosmic rays, the FIT rate has also been significantly improved – an important parameter when working with high DC link voltage. Furthermore, the new power modules feature a maximum overload junction temperature of 175°C.

In addition to the best-in-class 1700 V EconoDUAL 3 with 900 A, a 750 A module with a larger diode has also been introduced to further increase the flexibility of the new portfolio. Overall, the new EconoDUAL 3 1700 V modules with the TRENCHSTOP IGBT 7 chip can increase the power density of the inverter and achieve a new level of performance in a wide range of applications.

Availability

The FF900R17ME7_B11, FF750R17ME7D_B11 and FF225R17ME7_B11 can be ordered now. The roll-out of the portfolio, specifically the current classes from 300 A to 750 A, will follow at the end of 2022. More information is available at www.infineon.com/econodual3.

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During PCIM 2022, a paper presentation will be held on 10th of May (2.00 PM CEST, conference area, room München 2) by Aleksei Gurvich, Senior Manager of Product Definition & Application Engineering, about the new 900 A and 750 A 1700 V EconoDUAL 3 Modules with TRENCHSTOP IGBT7.

Infineon at PCIM 2022

At PCIM 2022, Infineon will be presenting innovative product-to-system solutions for applications that are set to power the world and shape the future. Company representatives are also holding several presentations at the PCIM Conference and Industry & E-Mobility Forum with live and on-demand video presentations, followed by discussions with the speakers. “Experience the difference in power” at Infineon’s booth #412 in hall 7 (10-12 May 2022, Nuremberg/Germany). Information about the PCIM show highlights is available at www.infineon.com/pcim.

More information about Infineon’s contribution to energy efficiency:
www.infineon.com/green-energy

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