R&D project IFASS presents results at PCIM 2017:

New 100 kW inverter power module for B6 standard cuts weight and volume by half

The growing market in power supply and drive technologies needs cost-efficient and robust power electronic converters. Together with industrial partners Infineon Technologies AG and SUMIDA Components & Modules GmbH, Fraunhofer scientists have researched for three years in the project IFASS to this end.

The resulting development is a new inverter power module with an electrical power of 100 kVA, circuit design to the B6 standard, new silicium carbide (SiC) half bridge modules, new magnetic elements, 48 kHz switching frequency, excellent efficiency of more than 98 % and half the weight and volume of previous inverters. The project is funded by the German Government with 2.98 million euros. At the international leading exhibition for power electronics PCIM Europe starting today, the new development is presented at Infineon Technologies AG booth 412 in hall 9.

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New development by Infineon Technologies AG, SUMIDA Components & Modules GmbH and Fraunhofer IWES in Kassel: 100 kW inverter module to B6 standard with 48kHz switching frequency and 50% less weight and volume. (Foto: Fraunhofer IWES)

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