

Press Conference

Tuesday, 10th of May 2016PCIM Europe, Messezentrum 1, 90471 Nuremberg (Germany)
NCC Ost, Level 1, Room Hongkong

Press release

Mitsubishi Electric Develops X-Series New Dual HV IGBT Module

More flexibility through standardized package for next-generation high-power semiconductor module

TOKYO, April 6, 2016 – Mitsubishi Electric Corporation (TOKYO: 6503) announced today the development of a next-generation power module, called X-Series New Dual HV IGBT module, for traction and electric power applications used in heavy industries. The new module features higher power density and efficiency for inverters, as well as a standardized package that allows for a flexible design of inverter systems.

Samples of the New Dual module's 3.3 kV (LV100) version will be available for shipping from March 2017. The 1.7 kV, 3.3 kV (HV100), 4.5 kV and 6.5 kV versions will follow from 2018 onwards. In the future, the company plans to expand the lineup by a version below 1.7 kV.

The modules will be exhibited at major trade shows including MOTORTECH JAPAN 2016 during TECHNO-FRONTIER 2016 in Japan from April 20 to 22, Power Conversion Intelligent Motion (PCIM) Europe 2016 in Nuremberg, Germany, from May 10 to 12, and PCIM Asia 2016 in Shanghai, China, from June 28 to 30.

High-power modules are key devices for controlling power conversion in electronic systems in a wide range of power classes from several kilowatts up to several megawatts. Until now, modules with a maximum voltage rating of up to 6.5 kV and a maximum current rating of several thousand amperes have been commercially available.

Product Features

The New Dual HV IGBT module will meet the demand for efficient, high power density semiconductor devices, offering a wide range of current and voltage ratings. High energy efficiency and power density in inverters is achieved with the use of seventh-generation IGBTs adopting CSTBT™ and RFC diodes which keep the power loss in inverter systems low.



HV100



LV100

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Inverter capability is increased by three AC main terminals on the LV100 package which spread and equalize the current density. Maximum performance is reached by an improved package technology and low parasitic inductance.

The common frame size of the two LV100 and HV100 modules supports more diverse inverter configurations and power ratings. Simple, standard 2-in-1 connections allow for an optimal system design as well as for voltage and current ratings ranging from 1.7 kV/900 A to 6.5 kV/225 A, making system configuration scalable and more flexible.

Thanks to the standardized package dimensions of 100 mm × 140 mm × 40 mm, manufacturers of industrial electronics are able to simplify design and secure multiple sources for inverters. Moreover, the new standardized package is compatible with the terminal and attachment locations of Infineon Technologies AG, Germany.

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About Mitsubishi Electric

With more than 90 years of experience in providing reliable, high-quality products to both corporate clients and general consumers all over the world, Mitsubishi Electric Corporation is a recognized world leader in the manufacture, marketing and sales of electrical and electronic equipment used in information processing and communications, space development and satellite communications, consumer electronics, industrial technology, energy, transportation and building equipment as well as air conditioning and heating technology.

With around 129.000 employees the company recorded consolidated group sales of 36.0 billion US Dollar* in the fiscal year ended March 31, 2015. Our sales offices, research & development centres and manufacturing plants are located in over 30 countries.

Since 1978 Mitsubishi Electric is represented in Germany as a branch of Mitsubishi Electric Europe. Mitsubishi Electric Europe is a wholly owned subsidiary of Mitsubishi Electric Corporation in Tokyo.

* At an exchange rate of 120 yen to the US dollar, the rate given by the Tokyo Foreign Exchange Market on March 31, 2015

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