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Development of Mitsubishi Electric SiC Power Devices and Power Electronics Equipment Incorporating Them Mitsubishi Electric began developing SiC as a new material in the early 1990s.

**SiC Power Modules - Mitsubishi Electric**  
Mitsubishi Electric to Launch Second-

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generation Full-SiC Power Modules for Industrial Use Aug 25, 2020 Mitsubishi Electric to Launch LV100-type T-series IGBT Module for Industrial Use

## **Power Modules - Mitsubishi Electric**

Development of Mitsubishi Electric SiC Power Devices and Power Electronics Equipment Incorporating Them Mitsubishi Electric began developing SiC as a new material in the early 1990s.

## **Power Modules for Power Applications - Mitsubishi Electric**

Mitsubishi Electric began the development of elemental SiC technologies in the early 1990s and has since introduced them to achieve practical energy-saving effects for products manufactured using SiC. Innovative SiC power modules are contributing to the realization of a low-carbon society and more affluent lifestyles. SiC: Silicon Carbide-Compound that fuses silicon and carbon at a ratio of ...

## **SiC POWER MODULES - Mitsubishi Electric**

Mitsubishi Electric to Launch Second-generation Full-SiC Power Modules for Industrial Use, in the 2020 section of Mitsubishi Electric's website.

## **Mitsubishi Electric to Launch Second-generation Full-SiC ...**

Built-in SiC-MOSFET and SiC-SBD help to

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reduce power loss by approximately 70% compared to that of Mitsubishi Electric's conventional Si-IGBT modules. Power loss reduction and high carrier frequency operation will facilitate development of smaller and lighter external components, such as reactors and coolers.

## **Mitsubishi Electric to Launch Second-generation Full-SiC ...**

With SiC, owing to the high dielectric breakdown, power loss is reduced and high-voltage is easier to achieve, it is possible to use Schottky Barrier Diodes (SBDs), which cannot be used with Si. SBDs can realize high-speed switching motion because they don't have accumulation carriers. As a result, high-speed switching can be realized.

## **SiC SBD - Mitsubishi Electric**

Mitsubishi Electric began the development of elemental SiC technologies in the early 1990s and has since introduced them to achieve practical energy-saving effects for products manufactured using SiC. Innovative SiC power modules are contributing to the realization of a low-carbon society and more affluent lifestyles.

## **SiC POWER MODULES - Mitsubishi Electric**

The development of high power density and high withstand voltage SiC power modules is one of NEDO's main R&D directions and Mitsubishi Electric is a key player in this

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activity. Several outstanding Mitsubishi Electric R&D results on SiC technology reported in this article have been supported by NEDO.

## **Gaining Speed: Mitsubishi Electric SiC-Power Modules ...**

Mitsubishi Electric began the development of elemental SiC technologies in the early 1990s and has since introduced them to achieve practical energy-saving effects for products manufactured using SiC. Innovative SiC power modules are contributing to the realization of a low-carbon society and more affluent lifestyles.

## **SiC POWER DEVICES - MITSUBISHI ELECTRIC UNITED STATES**

Mitsubishi Electric To Launch Second-generation Full-SiC Power Modules For Industrial Use Monday 28th September 2020 Mitsubishi Electric Corporation announced today its coming launch of second-generation full-SiC (silicon carbide) power modules featuring a newly developed SiC chip for industrial use.

## **Mitsubishi Electric to Launch Second-generation Full-SiC ...**

Mitsubishi To Launch Second Gen SiC Modules Wednesday 16th September 2020 New industrial modules will contribute to more efficient, smaller and lighter power-electronics equipment Mitsubishi Electric is launching a

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second-generation of full-SiC power modules featuring a newly developed SiC chip for industrial use.

## **Mitsubishi to Launch second gen SiC Modules - News**

DIPFFC™ is a transfer molded type IPM which integrates boost chopper circuit and driving IC for power factor correction (PFC) and harmonic suppression of power supply of inverter system. Owing to embedded high speed power chips like the latest wide band gap power chips, low loss operation is possible on the condition of high carrier frequency driving.

## **PFC Modules - Mitsubishi Electric**

Built-in SiC-MOSFET and SiC-SBD help to reduce power loss by approximately 70% compared to that of Mitsubishi Electric's conventional Si-IGBT modules. Power loss reduction and high carrier...

## **Mitsubishi Electric to Launch Second-generation Full-SiC ...**

Mitsubishi Electric's leading-edge TFT-LCD modules are designed for high reliability, optimal visibility, enhanced viewability, and touch-screen capabilities. Thermal Diode Infrared Sensor "MelDIR" Accurately detects heat to identify types of heat sources and specific human behavior

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