

MITSUBISHI ELECTRIC CORPORATION
PUBLIC RELATIONS DIVISION
 7-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo, 100-8310 Japan

FOR IMMEDIATE RELEASE

No. 3104

Customer Inquiries

Media Inquiries

Power Device Overseas Marketing Dept.A and Dept.B
 Mitsubishi Electric Corporation

Public Relations Division
 Mitsubishi Electric Corporation
prd.gnews@nk.MitsubishiElectric.co.jp
www.MitsubishiElectric.com/news/

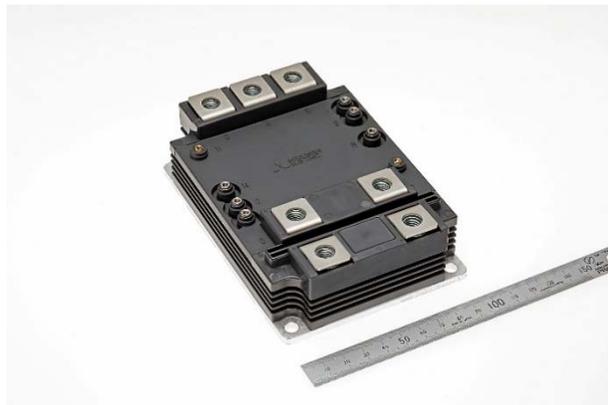
www.MitsubishiElectric.com/semiconductors/

Mitsubishi Electric to Launch LV100-type X-Series HVIGBT Modules

Top-class current density will contribute increased power output in inverter systems

TOKYO, May 11, 2017– [Mitsubishi Electric Corporation](http://www.mitsubishielectric.com) (TOKYO: 6503) announced today that it has launched two new LV100-type X-Series HVIGBT modules sequentially in September. The modules, which will offer the highest power density available on the market, will enable inverter systems to achieve increased power output and efficiency, as well as more flexible configurations and higher reliability. In addition, further line-up of SiC modules is planned in order. Mitsubishi Electric’s HVIGBT modules play a vital role in controlling power conversion in industrial electronic systems for railways, power transmission and other large industrial application.

The new modules will be exhibited at Power Conversion and Intelligent Motion (PCIM) Europe 2017 in Nuremberg, Germany from May 16 to 18 and PCIM Asia 2017 in Shanghai, China from June 27 to 29.



LV100-type X-Series HVIGBT module

Sales Schedule

Product	Model	Specification	Shipment
LV100-type X-Series HVIGBT module	CM450DA-66X	3.3kV/450A/2in1	From September 2017
	CM600DA-66X	3.3kV/600A/2in1	

Product Features

1) *Industry-leading power density for increased capacity*

- Seventh-generation IGBTs adopting CSTBT and RFC diodes realize the highest power density of 8.57A/cm² as Si-module in the industry <3.3kV/600A>

- Three AC main terminals spread and equalize current density to increase inverter capacity

2) **Easy parallel connection for flexible configurations and capacities**

- The terminal layout is optimized for easy paralleling and flexible inverter configurations and capacities

3) **New package structure for extra reliability**

- Integration of the isolating plate and heat sink increases the thermal cycle lifetime for relatively long-term cycling of case temperatures
- Lower thermal resistance increases power cycle lifetime for relatively short-term cycling of chip temperatures

Main Specifications (new modules in bold)

Product	Model	Specification	Configuration	Isolation voltage	Dimensions
LV100-type X-Series HVIGBT module	CM450DA-66X	3.3kV/450A	2 in 1	6kVrms	100×140×40mm³
	CM600DA-66X	3.3kV/600A			
Standard-type X-Series HVIGBT module	CM1200HC-66X	3.3kV/1200A	1 in 1	6kVrms	140×130×38mm ³
	CM1800HC-66X	3.3kV/1800A			140×190×38mm ³
	CM1500HC-90XA	4.5kV/1500A			140×130×48mm ³
	CM900HG-90X	4.5kV/900A		10kVrms	140×190×48mm ³
	CM600HG-130X	6.5kV/600A			140×190×48mm ³
	CM1800HG-66X	3.3kV/1800A			
	CM1350HG-90X	4.5kV/1350A			
	CM900HG-130X	6.5kV/900A			
	CM1000HG-130XA	6.5kV/1000A			

###

About Mitsubishi Electric Corporation

With over 90 years of experience in providing reliable, high-quality products, Mitsubishi Electric Corporation (TOKYO: 6503) 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. Embracing the spirit of its corporate statement, Changes for the Better, and its environmental statement, Eco Changes, Mitsubishi Electric endeavors to be a global, leading green company, enriching society with technology. The company recorded consolidated group sales of 4,238.6 billion yen (US\$ 37.8 billion*) in the fiscal year ended March 31, 2017. For more information visit:

www.MitsubishiElectric.com

*At an exchange rate of 112 yen to the US dollar, the rate given by the Tokyo Foreign Exchange Market on March 31, 2017