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Product Inquiries

Power Device Global Marketing Sect. A
Mitsubishi Electric Corporation
Tel: +81-3-3218-3237
Hirata.Tomonori@cb.MitsubishiElectric.co.jp
<http://www.mitsubishichips.com/Global/>

Media Contact

Public Relations Division
Mitsubishi Electric Corporation
Tel: +81-3-3218-3380
prd.gnews@nk.MitsubishiElectric.co.jp
<http://global.mitsubishielectric.com/news/>

Mitsubishi Electric to Sell New-MPD Series of IGBT Modules

Improves Wind Power and Photovoltaic Systems

Tokyo, December 3, 2009 – Mitsubishi Electric Corporation (TOKYO: 6503) announced today the launch of its “New-MPD (Mega Power Dual) Series” of insulated gate bipolar transistor (IGBT) modules. Suitable for all applications requiring high power density, the New-MPD modules are mainly for use in power converters for large capacity wind power and photovoltaic (PV) systems. Shipments will begin in January, 2010 through Mitsubishi Electric sales sites (<http://www.mitsubishichips.com/Global/network/index.html>) in Americas, Europe, China, Korea.

Summary of Sale

Model	Specifications	Price of sample (Including tax)	Shipment date
CM2500DY-24S	2500A/1200V, 2 elements per pack	110,000 JPY	April 2010
CM1800DY-34S	1800A/1700V, 2 elements per pack	120,000 JPY	January 2010

Background:

Power generation systems now focus on natural energy sources such as wind power or solar power in order to limit carbon dioxide (CO₂) emissions and reduce global warming. Recent trends have seen the appearance of large-scale, megawatt-class power generation systems, and the power conversion equipment used in such systems requires higher power than before.

In 2002, Mitsubishi Electric released its original MPD series featuring 2-element, 1,400A/1,200V IGBT modules that could handle megawatt-class power generation. The company has released the New-MPD Series to accommodate the expanded volumes handled by power generation systems. The New-MPD Series products can also be utilized in large capacity inverters and uninterruptible power supply (UPS) systems for industrial equipment.

Main Product Features:

1) Current rating extended to 2,500A by using dedicated package and sixth generation IGBT

The current rating exceeds that of the original MPD series by 1.5 times, and features a dedicated package with a rearranged internal structure and 6th generation IGBT chips. CM2500DY-24S's current rating of 2,500A is the highest in the industry among 2-element IGBT modules, as of the date of announcement.

2) An optimum chip layout with adequate surrounding margin improves cooling efficiency in liquid-cooled applications

To improve cooling efficiency in liquid-cooled applications, each chip within the package has been surface-mounted plate with an adequate surrounding margin.

3) Environmental consideration

The New-MPD Series is compliant with the “Restriction of the use of certain Hazardous Substances” in electrical and electronic equipment (RoHS).

Main Specifications

Model	CM2500DY-24S	CM1800DY-34S
Collector Current (A)	2,500	1,800
Collector-emitter Voltage (V)	1,200	1,700
Collector-emitter Saturation Voltage (V)	1.7	2.1
Isolation Voltage (Vrms)	2,500	3,500
Module Size (mm)	310 (W) × 142 (D) × 51(H)	

About Mitsubishi Electric

With over 85 years of experience in providing reliable, high-quality products to both corporate clients and general consumers all over the world, 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. The company recorded consolidated group sales of 3,665.1 billion yen (US\$ 37.4 billion*) in the fiscal year ended March 31, 2009. For more information visit <http://global.mitsubishielectric.com>

*At an exchange rate of 98 yen to the US dollar, the rate given by the Tokyo Foreign Exchange Market on March 31, 2009.

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