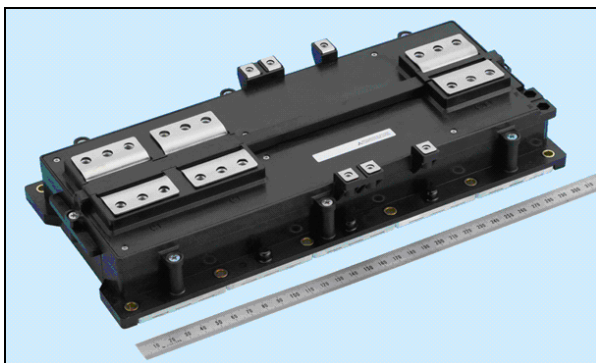


## Product Information

### New-MPD Series of IGBT Modules



CM2500DY-24S / CM1800DY-34S

Improves Wind Power and Photovoltaic Systems

#### Summary

Product name	Model	Specifications	Price of sample (Including tax)	Shipment date
New-MPD Series of IGBT Modules	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

Power generation systems now focus on natural energy sources such as wind power or solar power in order to limit carbon dioxide (CO<sub>2</sub>) 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, 1,200V/1,400A 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.

#### Features

##### ■ 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.

##### ■ 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.

##### ■ Environmental consideration

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

## Overview

Model	CM2500DY-24S	CM1800DY-34S
Collector-emitter Voltage (V)	1,200	1,700
Collector Current (A)	2,500	1,800
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)	

## Application

- Improves Wind Power and Photovoltaic Systems

**MITSUBISHI ELECTRIC CORPORATION**

2-7-3, MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN TEL+81-3-3218-3210 FAX +81-3-3218-4862

<http://www.mitsubishichips.com/>

E-Mail: Web.handotai@mf.MitsubishiElectric.co.jp