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Mitsubishi Electric to Launch New “PV Series” Intelligent Power Modules for Solar Power Generation Systems

90 mm × 50 mm dimensions help reduce size of photovoltaic inverters

Tokyo, March 18, 2010 – [Mitsubishi Electric Corporation](#) (TOKYO: 6503) announced today the launch of its new “PV Series” intelligent power modules (IPM), mainly for use in residential photovoltaic (PV) inverters. The six models, which can also be used in inverters for fuel cell systems, each measure 90 mm × 50 mm, contributing greatly to PV inverter miniaturization. Shipments will begin in May 2010 through [Mitsubishi Electric sales sites](#) in the Americas, Europe, China and Korea.

Demand for PV systems is increasing as a means to generate renewable energy to help prevent global warming. Inverters are an essential part of PV systems, converting DC electricity generated from solar cells into AC electricity for residential use. Because inverters for residential PV systems are usually installed indoors, it is important that they be made as small as possible.



Summary of Sale

| Series | Model | Specifications | Shipment date |
|---|--------------|-------------------------------|---------------|
| New PV-IPM <small>*new package</small> | PM50B4L1C060 | 600V/50A, 4 chips per package | May 2010 |
| | PM50B5L1C060 | 600V/50A, 5 chips per package | |
| | PM50B6L1C060 | 600V/50A, 6 chips per package | |
| | PM75B4L1C060 | 600V/75A, 4 chips per package | |
| | PM75B5L1C060 | 600V/75A, 5 chips per package | |
| | PM75B6L1C060 | 600V/75A, 6 chips per package | |

Product Features:

1) Smaller package helps miniaturize PV inverters

The mounting surface of the new IPM models is only 90 mm × 50 mm, about 30% less than that of Mitsubishi Electric's current PV series IPMs launched in 2005. This compact package helps make PV inverters smaller.

2) Three types of circuit connection and two types of rating current in the lineup

Mitsubishi Electric has prepared six models in the new PV series, to suit the various types of circuits in PV inverters, such as single output inverter, single output inverter with one chopper, as well as single output inverter with two choppers. The lineup consists of 4-chip, 5-chip and 6-chip modules, each with a choice of one of two types of current rating: 50 amperes (A) and 75A.

3) Environmental consideration

The new PV Series is compliant with the RoHS ("Restriction of the use of certain Hazardous Substances" in electrical and electronic equipment) Directive.

Lineup and Module Size

| | 50A | | 75A | |
|--------------------|----------------------------|---------------|----------------------------|---------------|
| | Previous series | New PV series | Previous series | New PV series |
| 4-chip model | PM50B4LA060 PM50B4LB060 | PM50B4L1C060 | PM75B4LA060 PM75B4LB060 | PM75B4L1C060 |
| 5-chip model | PM50B5LA060 PM50B5LB060 | PM50B5L1C060 | PM75B5LA060 PM75B5LB060 | PM75B5L1C060 |
| 6-chip model | PM50B6LA060 PM50B6LB060 | PM50B6L1C060 | PM75B6LA060 PM75B6LB060 | PM75B6L1C060 |
| Module size (W ×D) | 120 mm × 55 mm | 90 mm × 55 mm | 120 mm × 55 mm | 90 mm × 55 mm |

Main Specifications

| | | |
|--|---|--|
| | PM50B4L1C060 PM50B5L1C060 PM50B6L1C060 | PM75B4L1C060 PM75B5L1C060 PM75B6L1C060 |
| Collector Current (A) | 50A | 75A |
| Collector-emitter Voltage (V) | 600V | 600V |
| Collector-emitter Saturation Voltage (V) | 1.9 | 1.9 |
| FWDi Forward Voltage (V) | 1.7 | 1.7 |
| Protection | Short circuit (SC) Under voltage (UV) Over temperature (OT) | |

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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