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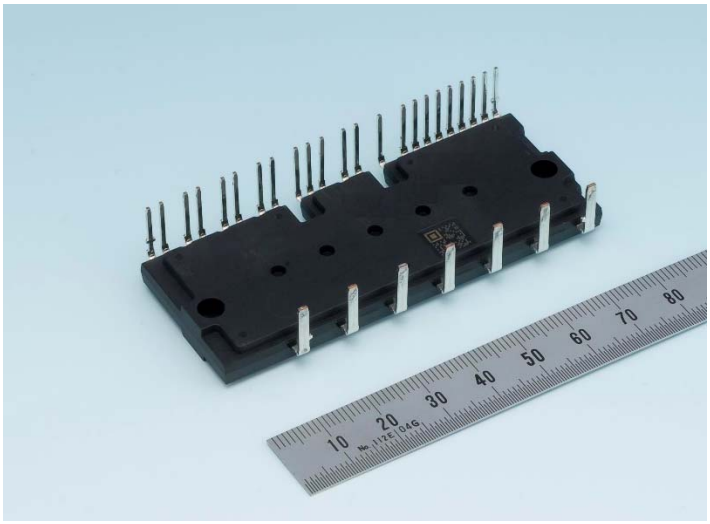
Mitsubishi Electric to Expand Lineup of 1200V Large DIPIPM Ver. 6

Newly added product covers 40kW range of package air conditioners

TOKYO, August 30, 2017 – Mitsubishi Electric Corporation (TOKYO: 6503) announced today that its 1200V large dual in-line package intelligent power modules (DIPIPM™) Ver. 6 lineup has added a 75A/1200V transfer-mold power semiconductor model for 40kW-class package air conditioners, effectively immediately.



1200V Large DIPIPM Ver.6 (75A/1200V)

Product Features

1) Expanded lineup covers larger range of package air conditioners

- Seventh-generation IGBT deploys carrier-stored trench-gate bipolar transistor (CSTBT) structure to achieve a first current rating of 75A for DIPIPM
- Add a new 75A/1200V model to existing 5A, 10A, 15A, 25A, 35A, 50A/1200V models, covering package air conditioners in 40kW class

2) Simplified design for inverter systems

- Footprint and pin configuration compatible with existing 1200V Large DIPIPM Ver. 6
- Fewer external components thanks to embedded bootstrap diode (BSD) with current-limiting resistor
- High-accuracy temperature output function simplifies thermal design

Sale Schedule

Model	Specification	Shipment
PSS75SA2FT	75A/1200V	August 30, 2017

Main Specifications

Model	PSS05SA2FT	PSS10SA2FT	PSS15SA2FT	PSS25SA2FT	PSS35SA2FT	PSS50SA2FT	**PSS75SA2FT**
Specification	5A / 1200V	10A / 1200V	15A / 1200V	25A / 1200V	35A / 1200V	50A / 1200V	**75A / 1200V**
Dimensions	31.0×79.0×8.0mm (same as 1200V Large DIPIPM Ver. 4 series)						
Built-in Chips	Three-phase inverter bridge with built-in IGBT, FWD, HVIC, LVIC and BSD chips						
Functions	- Current sensor for short-circuit protection - Power supply low-voltage protection: Fo output on N-side - Analog temperature voltage output						
Other	Inverter with divided-emitter N-side (3 shunts)						

In 1997, Mitsubishi Electric commercialized its first DIPIPM transfer-mold intelligent power semiconductor module, contributing greatly to the downsizing and energy-economy of inverter systems. In line with growing demands for environmental protection and energy savings, Mitsubishi Electric then launched its 1200V Large DIPIPM Ver. 6 series for inverter systems of package air conditioner in 2014. In response to the use of increasingly high-power compressors in package air conditioners, the company has now added a 75A/1200V model for 40kW-class package air conditioners.

Environmental Awareness

The products mentioned in this release are compliant with the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) directive 2011/65/EU.

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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