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No. 2359

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**MITSUBISHI ELECTRIC ANNOUNCES HIGH POWER TYPE LEAD-FREE
SOLDER PHOTOVOLTAIC MODULE FOR OVERSEAS MARKET**

Tokyo, February 16, 2005 – Mitsubishi Electric Corporation (President and CEO: Tamotsu Nomakuchi) announced today it will begin sales of lead-free solar panel modules in overseas markets on April 1, 2005. Sales will be focused mainly in the expanding potential markets of the United States and Europe for on-grid use.

Main Features

1. Achievement of 15.1% cell conversion efficiency rate with adoption of new process developments and mass production

Mitsubishi Electric has achieved top class conversion efficiency for Poly crystal silicon PV cells with the following 3 processes:

- 1) Improved silicon wafer quality: optimization of casting conditions
- 2) Improved PV cell manufacturing process: optimization of hydrogen passivation
- 3) Improved electrode forming conditions: improvement of contact between silver electrode and silicon wafer

2. Achievement of 170Wp high power module by employing high efficiency PV cell

By using a newly developed high efficiency cell we achieved a high power module with 170Wp, 3% increase over previous model PV-MF165EB3. These modules make it possible to construct a large-scale system with fewer modules, thus using less module rack support material and contributing to total system cost reduction.

3. Reducing negative impact on the environment, by making a lead-free solder PV module

Mitsubishi Electric is decreasing the negative impact on the environment by making a lead-free solder PV module that contains 0g⁴ lead.

⁴Indicates amount of lead solder in module only

Product Information

Product name	Lead-Free Solar Panel Module
Model name	PV-MF170EB3
Cell type	Polycrystalline silicon
Maximum power rating [Pmax]	170W
Maximum power voltage [Voc]	24.6V
Maximum power current [Imp]	6.93A
Maximum system operation voltage	DC 780V
Weight	15.5kg (34.2lb)
Dimensions	1580 x 800 x 46mm (62.2 x 31.5 x 1.8“)
Module conversion efficiency	13.5%
Standard compliance	IEC61215 UL1703 ¹ TÜV Safety Class II ²
Sale date	April 1

NB: Electric performance represents values under Standard Test Conditions (STC: 25 C, AM1.5, 1000W/m³)

- 1) Underwriters Laboratories Inc. UL is widely recognized as an authoritative testing and certification organization based in the US. Certified products are considered that they have high value in the US.
- 2) Technischer Überwachungs-Verein. TÜV is widely recognized as an authoritative testing and certification organization based in Germany. Certified products are considered that they have high value not only in Germany but also in other EU countries.

Background

The market for PV products is seeing rapid growth as of late due to increasing efforts in environmental preservation like reducing carbon dioxide emissions that cause global warming. In 2004, there was a 30% increase in the market to 960 MW compared to last year³. The majority of PV systems currently in use, mainly in Japan, Europe and the United States, are connected to commercial grid systems. In particular the German market, due to a revised renewable energy law put into practice on January 2004, is seeing rapid expansion not only in current private residential use but also several mega watt (MW) large-scale energy generation applications.

³based on our own research

Mitsubishi Electric has developed a high power PV module suitable for large-scale energy generation. These modules make it possible to construct a large-scale system with fewer modules, thus using less module rack support material and contributing to total system cost reduction. Mitsubishi Electric is committed to the popularization of clean energy by strengthening PV production capacity while adding to its product lineup to meet market needs.

About Mitsubishi Electric

With over 80 years of experience in providing reliable, high-quality products to both corporate clients and general consumers all over the world, Mitsubishi Electric Corporation (TSE: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 3,309 billion yen (US\$ 31.2billion*) in the fiscal year ended March 31, 2004. For more information visit <http://global.mitsubishielectric.com>

*At an exchange rate of 106 yen to the US dollar, the rate given by the Tokyo Foreign Exchange Market on March 31, 2004.