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

**Tokyo, June 13, 2007** – Mitsubishi Electric Corporation (President and CEO: Setsuhiro Shimomura) announced today it will begin selling high output lead-free solder photovoltaic (PV) modules for the overseas market on July 1, 2007. The sixteen new models will be capable of high output, with one model the first capable of a maximum output of 190W. The modules will be displayed at the Inter Solar 2007 in Freiburg, Germany, starting June 21.

**Summery of Sale**

Name of product	Representative Model name		Cell type	Maximum power rating	Module efficiency	Shipping Date
High output Lead-free solder photovoltaic modules	Europe	PV-TD190MF5	Polycrystalline silicon	190Wp	13.7%	July. 1.2007
	North America	PV-UD190MF5		190Wp	13.7%	

**Aim of Sale**

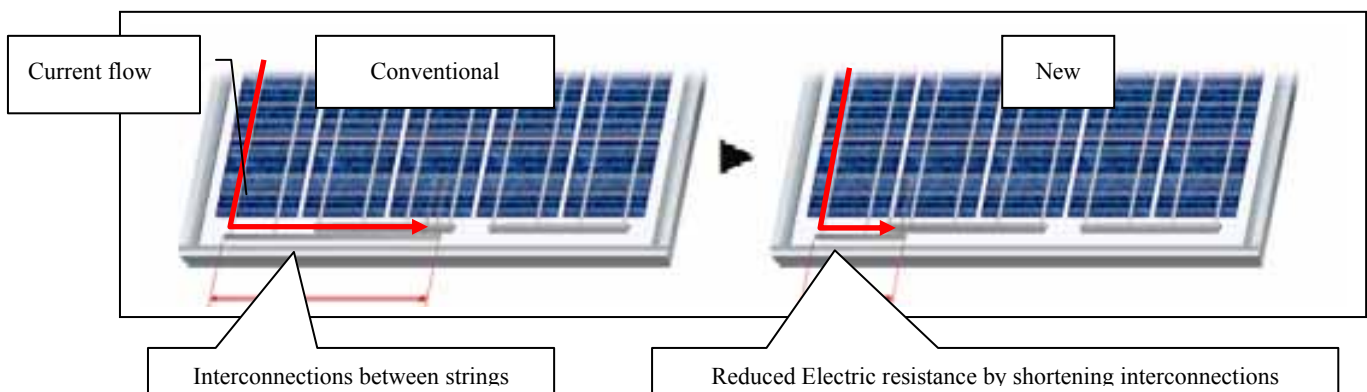
The PV systems market has been rapidly expanding globally (140% compared to last year: source, PV News March 2007) amid increasing environmental protection concerns. In particular, Germany, Spain, Italy and other European countries that have introduced the feed-in-tariff subsidy system continue to rapidly expand as the world's largest PV market. Demand from the United States is also expected to increase with the California solar initiative PV system subsidy program that began in January 2007.

The new module for sale by Mitsubishi Electric has 190W output, a 5W increase over previous model PV-MF185TD4, by using a new back film to optimize module construction. These PV modules as such are appropriate not only for residential systems but also for large-scale systems used in Europe and the United States.

## Main Features

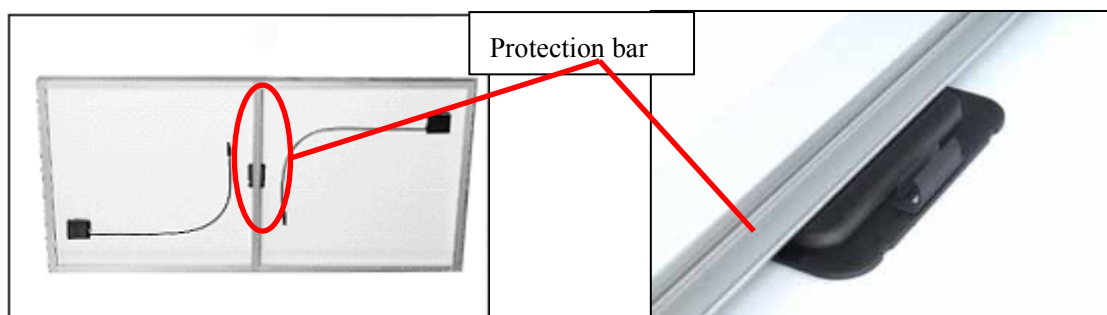
### 1. High power modules capable of 190Wp max output (PV-TD190MF5, PV-UD190MF5)

We increased output of the new module using a new module back film to absorbing 10% more reflected light from spaces between cells compared to previous model PV-MF185TD4. We also controlled output loss by 3.5% compared to previous model PV-MF185TD4 by changing location of the junction box and shortening interconnections that connect between strings. These improvements increased module output by 5W to a 190W max output. This allows assembly of systems using fewer PV modules and therefore less module rack support material, contributing to total system cost reduction.



### 2. IEC61215 Edition 2 static load test 5400Pa passed, (PV-TDxxxMF5, PV-UDxxxMF5)

The international design standard for crystalline silicon modules is the International Electro technical Commission (IEC)'s IEC61215. Using a newly developed protection bar to increase strength we are the first Japanese manufacturer at the time of this release to achieve a static load of 5400Pa, compared with previous model's static load of 2400Pa, and pass the tough new IEC 61215, edition 2 standards. We also doubled the module frame deformation capacity to twice that of previous model PV-MF185TD4 by adjusting the direction of the frame anchoring screw, expanding availability of system installation to snowy areas such as Germany.



**2. Reduced system output loss, first Japanese manufacture with module tolerance of +/-3%  
(PV-TDxxxMF5, PV-UDxxxMF5)**

Using a unique manufacturing control system, we achieved a module tolerance of +/-3% (compared to previous model's module tolerance of +10%/-5%), a first for a Japanese manufacture. This controls total system output loss, which will allow greater electricity generation in large-scale systems in Europe and the United States.

**Product Information**

Product		LEAD-FREE SOLDER PHOTOVOLTAIC MODULE							
Model Name	Europe	PV-TD 190MF5	PV-TD 185MF5	PV-TD 180MF5	PV-TD 175MF5	PV-TE 130MF5N	PV-TE 125MF5N	PV-TE 120MF5N	PV-TE 115MF5N
	North America	PV-UD 190MF5	PV-UD 185MF5	PV-UD 180MF5	PV-UD 175MF5	PV-UE 130MF5N	PV-UE 125MF5N	PV-UE 120MF5N	PV-UE 115MF5N
Cell type		Polycrystalline silicon							
Number of cells		50 pieces (10 x 5)				36pieces (9 x 4)			
Maximum power rating [Pmax]		190W	185W	180W	175W	130W	125W	120W	115W
Maximum power voltage [Vmp]		24.7V	24.4V	24.2V	23.9V	17.4V	17.3V	17.2V	17.1V
Maximum power current [Imp]		7.71A	7.58A	7.45A	7.32A	7.47A	7.23A	6.99A	6.75A
Maximum system operation voltage		Europe	1000V						
		North America	600V						
Weight		17.0 kg (37.0lbs)				13.5 kg (29.8 lbs)			
Dimensions		1658 x 834 x 46 mm (65.3 x 32.8 x 1.81 inch)				1495 x 674 x 46 mm (58.9 x 26.5 x 1.81 inch)			
Module conversion efficiency		13.7%	13.4%	13.0%	12.7%	12.9%	12.4%	11.9%	11.4%
Certification		Europe	IEC 61215 Second Edition, TUV Safety Class II						
		North America	IEC 61215 Second Edition, UL 1703						

NB: Electric performance represents values under Standard Test Conditions (STC: 25°C, AM1.5, 1000W/m<sup>2</sup>)

**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 3,855.7 billion yen (US\$ 32.7billion\*) in the fiscal year ended March 31, 2007. For more information visit <http://global.mitsubishielectric.com>

\*At an exchange rate of 118 yen to the US dollar, the rate given by the Tokyo Foreign Exchange Market on March 31, 2007.