

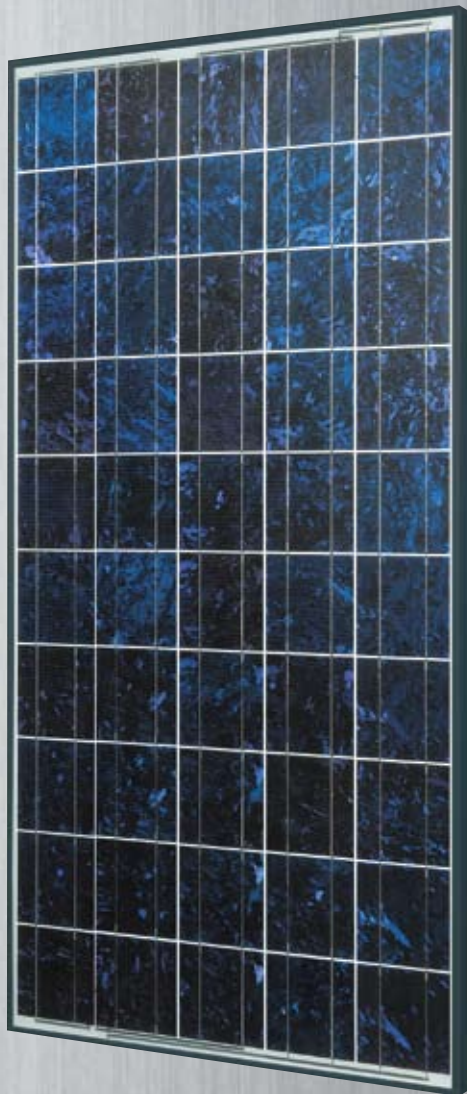
UD5 series

PV-UD190MF5 190Wp

PV-UD185MF5 185Wp

PV-UD180MF5 180Wp

PV-UD175MF5 175Wp



First  
in  
Quality

High Efficiency

- Solder-Free Cells
- Fine Grid Electrodes
- BSF (Back Surface Field) Structure
- Anti-Reflective Coating
- Unique Bus Bar Design
- Back Film Reflected Light
- Cerium-Free/High-Transmittance Glass
- Tightest Tolerance: +/-3%
- High Power Output in Actual Use

High Reliability

- Original Derating Designing Concept
- Straight Tabs
- Double-Sided Independent Tabs
- Lower Slope of Module Frame
- Static Load Test 5400 Pa passed with Protection Bar
- Higher Tensile Strength Structure
- Solid Frame Structure
- Tempered Glass
- Better Water Drainage Structure
- Max. System Voltage 600V with Triple-Layer Structure Back Film

High Safety

- Triple-Layer Structure Junction Box
- Ultra Reliable Bypass Diode
- Locking Electrical Connectors
- Lighter Weight 37lbs per module
- Conformity with IEC61215 2nd edition, UL 1703

Eco-Friendly

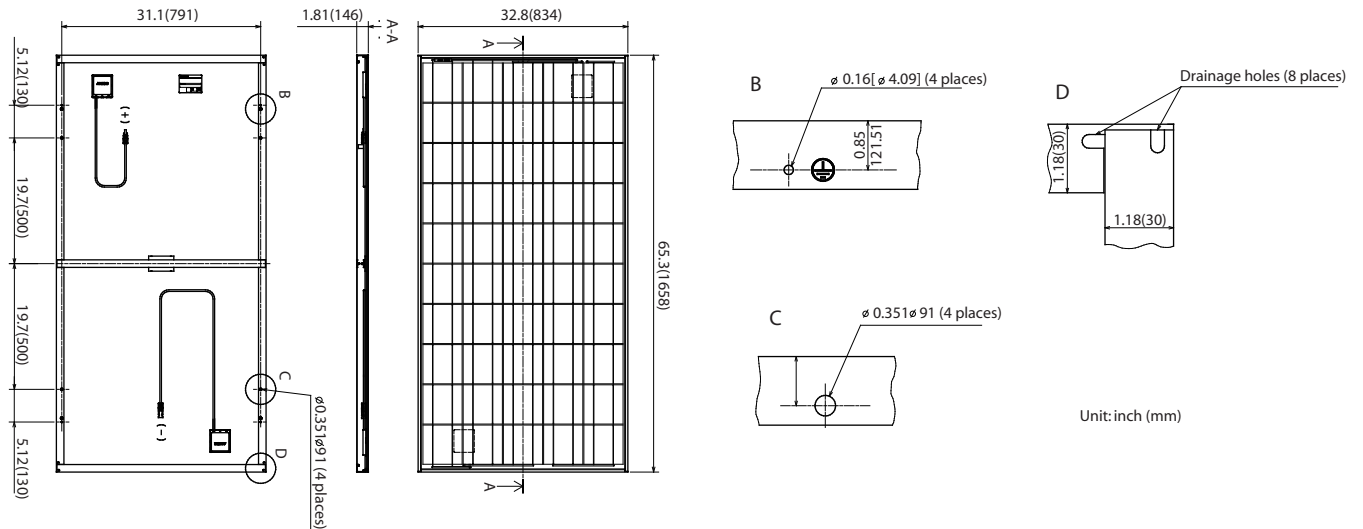
- Lead-Free Solder PV Modules
- Manufactured in an ISO 14001 Certified Plant
- Recyclable Steel Pallets



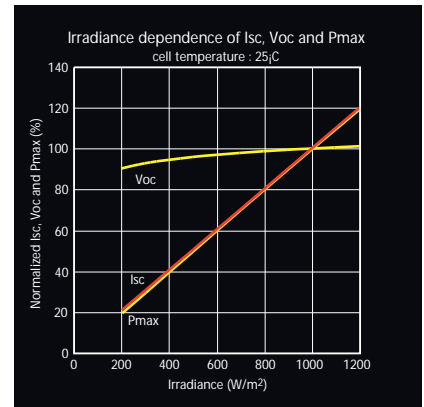
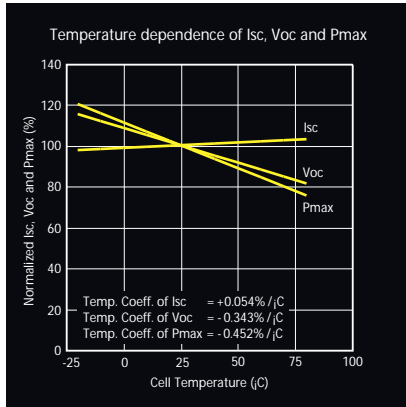
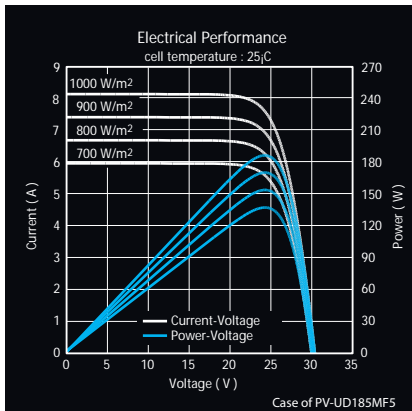
SPECIFICATION SHEET

Manufacturer	MITSUBISHI ELECTRIC			
Model name	PV-UD190MF5	PV-UD185MF5	PV-UD180MF5	PV-UD175MF5
Cell type	Polycrystalline Silicon, 156mm x 156mm			
Number of cells	50 cells in a series			
Maximum power rating (Pmax)	190W	185W	180W	175W
Warranted minimum Pmax	184.3W	179.5W	174.6W	169.8W
Tolerance of maximum power rating	+3/-3%			
Open circuit voltage (Voc)	30.8V	30.6V	30.4V	30.2V
Short circuit current (Isc)	8.23A	8.13A	8.03A	7.93A
Maximum power voltage (Vmp)	24.7V	24.4V	24.2V	23.9V
Maximum power current (Imp)	7.71A	7.58A	7.45A	7.32A
Normal operating cell temperature (NOCT)	47.5 degree C			
Maximum system voltage	DC 600V			
Fuse rating	15A			
Dimensions	65.3 x 32.8 x 1.81inch (1658 x 834 x 46mm)			
Weight	37lbs (17kg)			
Output terminal	(+) 31.5 inch (800mm)/ (-) 49.21 inch (1250mm) with MC connector (PV-KBT4/6 -UR, PV-KST4/6 -UR)			
Module efficiency	13.7%	13.4%	13.0%	12.7%
Packing contents	2 pcs - 1 carton			
Certifications	IEC 61215 edition 2(static load test 5400Pa passed), UL 1703			

DRAWINGS AND DIMENSIONS



ELECTRICAL CHARACTERISTICS



Mitsubishi Electric & Electronics USA, Inc.  
 5665 Plaza Drive, Cypress, CA 90630-0007  
 Phone: 714-229-3814 Email: pv@meus.mea.com

<http://www.MitsubishiElectric.com/solar>