

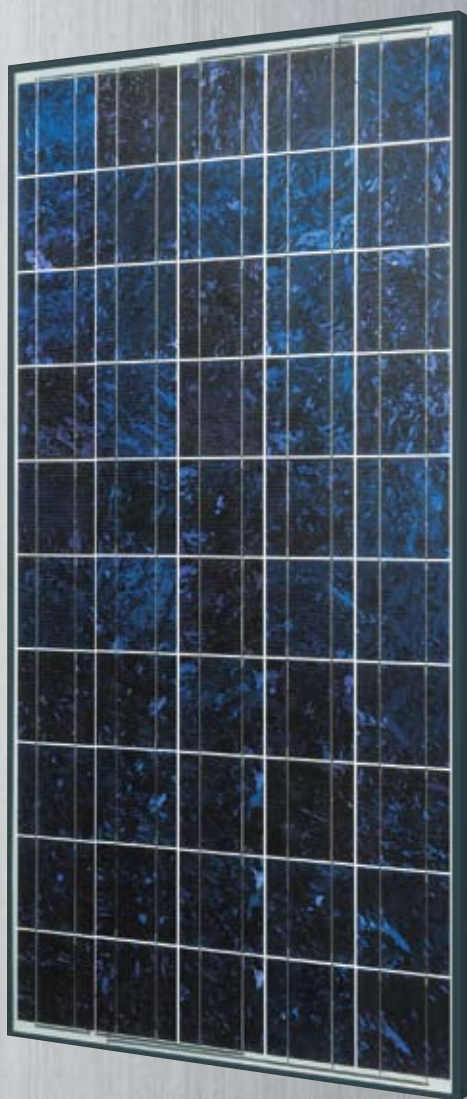
U D 5 series

PV-UD190MF5 190Wp

PV-UD185MF5 185Wp

PV-UD180MF5 180Wp

PV-UD175MF5 175Wp



First in Quality

High Efficiency and Performance

- Tight $\pm 3\%$ Power (Wp) Tolerance
- High Power Output in Actual Use
- Fine Grid Electrodes increase surface area
- Solder-Free cells increase efficiency
- BSF (Back Surface Field) Structure
- Anti-Reflective Coating
- Unique Low-Loss Bus Bar Design
- Back Film Utilizes Reflected Sunlight
- Cerium-Free/High-Transmittance Glass

High Quality and Reliability

- Higher Tensile Strength Structure
- Passed Static Load Test (5400 Pa), with Protection Bar
- Tempered Glass
- Lower Slope Module Frame
- Better Water Drainage Design
- Corrosion-Resistant Frame
- Straight Tabs
- Double-Sided Independent Tabs
- Max. System Voltage 600V with Triple-Layer Back Film

High Safety

- Triple-Layer Junction Box
- Ultra Reliable Bypass Diode
- Locking Electrical Connectors
- Light Weight (37lbs) Module
- Conforms to IEC61215 2nd edition, UL 1703

Eco-Friendly Manufacturing

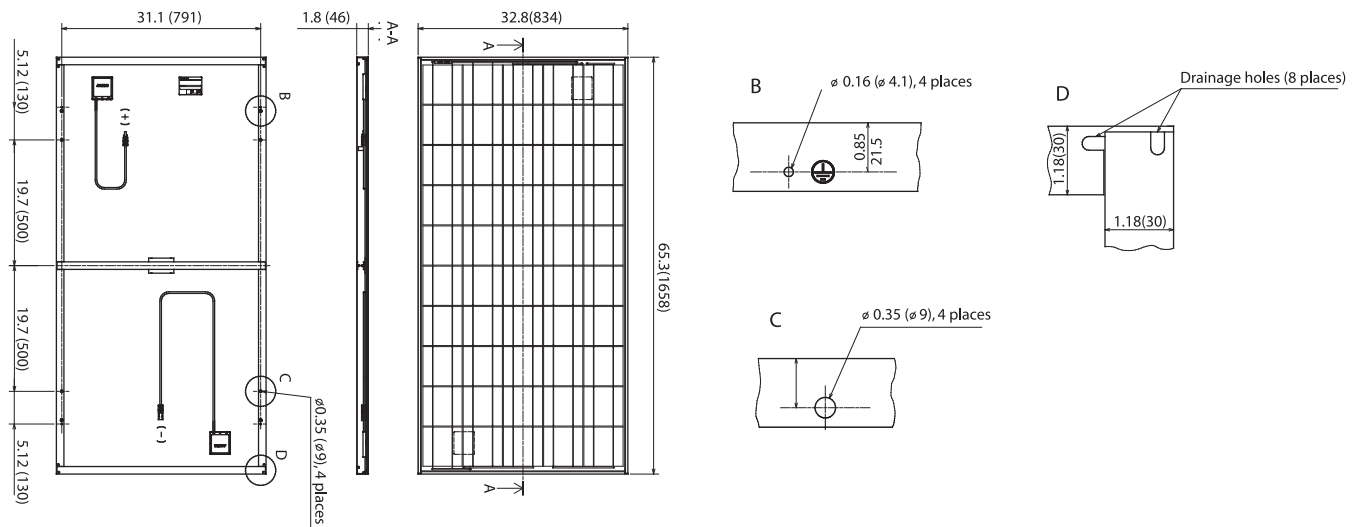
- Lead Free Solder PV Modules
- ISO 14001 Certified Manufacturing
- Recyclable Steel Shipping Pallets



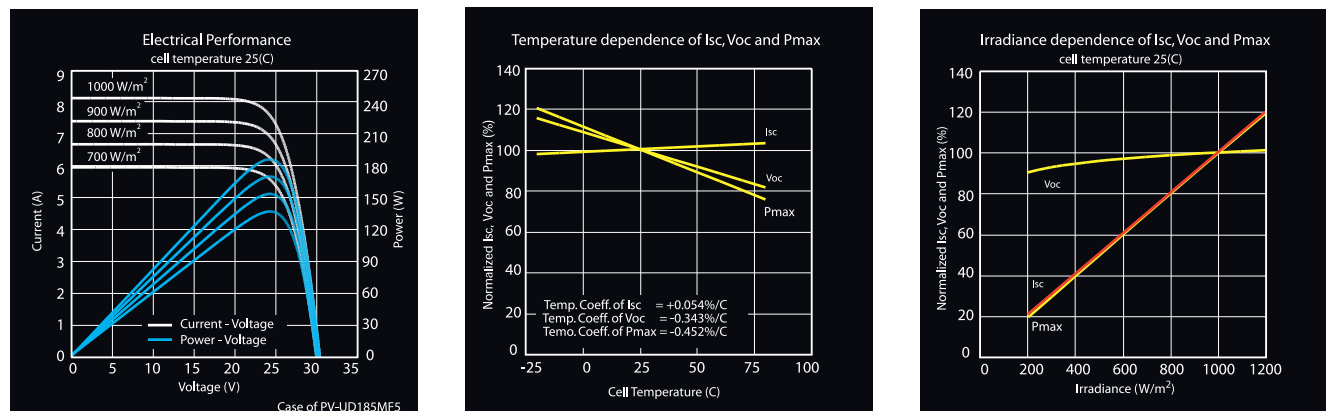
SPECIFICATION SHEET

Manufacturer	MITSUBISHI ELECTRIC			
	PV-UD190MF5	PV-UD185MF5	PV-UD180MF5	PV-UD175MF5
Model name	Polycrystalline Silicon, 156mm x 156mm			
Cell type	50 cells in a series			
Number of cells				
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 1.8 inch (1658 x 834 x 46mm)			
Weight	37lbs (17kg)			
Output terminal	Positive: 31.5±2 inch (800±50mm)/ Negative: 49.2±2 inch (1250±50mm) 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 Unit: inch (mm)



ELECTRICAL CHARACTERISTICS



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