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# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**Upsolar Global Co., Ltd.**

**UP-M250-270M-B**

**UP-M255M-B**

Also available on the web at  
[EnergyPal.com/upsolar-global-co-ltd-solar-panels/up-m255m-b](http://EnergyPal.com/upsolar-global-co-ltd-solar-panels/up-m255m-b)



# 6" Monocrystalline PV module 60 cells

Black Series

## Key Features

- UL 1000V Rated
- Flexible Production\*
- Reinforced Module Warranty
- High Efficiency
- Universal Design (residential, commercial)
- Salt Mist and Ammonia Resistant

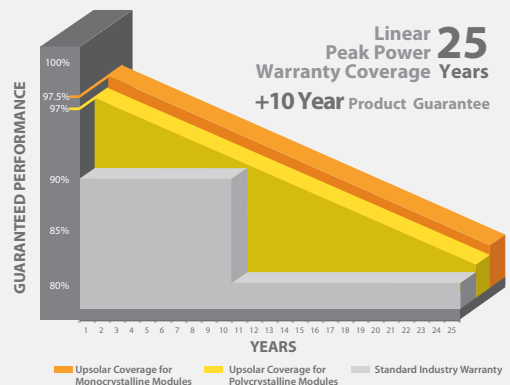


## Secure Investment

Upsolar provides industry-leading product coverage for all our modules to ensure our customers achieve superior long-term value from their solar installations. In addition to a 10-year product warranty, which covers unanticipated module damage, Upsolar implements a 25-year performance guarantee known as the Reinforced Module Warranty.

Whereas traditional warranties feature a singular trigger point that results in drastic coverage reductions after just 10 years, our Linear Peak Power Warranty offers a gradual ramp that more accurately corresponds to system performance over 25 years.

Upsolar has teamed up with AIG Energy Warranty, a division of AIG, to provide system owners with a second layer of warranty protection through a deductible-free protection plan\*\* that insures up to 90 percent of equipment costs and delivers peace of mind for years to come.



\*Upsolar has expanded its manufacturing operations in Asia, Europe and North America, keeping its modules duty-free in the event of new CVD or AD policies. Please ask about pricing, payment terms and conditions to meet your needs. \*\*Coverage may not be available in all jurisdictions and is subject to actual policy language. Insurance and services provided by member companies of American International Group, Inc.

## Electrical Characteristics @ STC\*

MODEL	UP-M250M-B	UP-M255M-B	UP-M260M-B	UP-M265M-B	UP-M270M-B
Max Power Pm (Wp)	250	255	260	265	270
Max Power Voltage Vm (V)	30.3	30.5	30.7	30.9	31.0
Max Power Current Im (A)	8.24	8.36	8.48	8.60	8.72
Open-Circuit Voltage Voc (V)	38.0	38.3	38.6	38.9	39.2
Short-Circuit Current Isc (A)	8.70	8.80	8.90	9.00	9.10
Module Efficiency	15.4%	15.7%	16.0%	16.3%	16.6%
Maximum System Voltage (V)	1000(IEC)/1000(UL)				
Power Tolerance	0/+3%				
Series Fuse Rating (A)	20A				

\*STC: Irradiance 1000 W/m<sup>2</sup>, Module temperature 25°C, AM=1.5

6" PV Module 60 cells  
Mono Series  
Black

## Components & Mechanical Data

Front Glass	High Transparency Tempered Glass 0.125" // 3.2 mm
Junction Box	IP 65 or above
Bypass Diode	3 diodes
Output Cables	1.0 m // IEC, UL approved (4 mm <sup>2</sup> , 12AWG) (PV Wire Type)
Connectors	MC4 compatible (IP67, IEC and UL approved)
Frame	Anodized aluminium alloy type 6063-T5
Encapsulation Material	EVA (0.018" // 0.45 mm ± 0.001" // 0.03 mm thickness)
Back Sheet	Black multilayer polymer film
Temperature Range	-40°F to +194°F // -40°C to +90°C
Max Load	75 lbs / ft <sup>2</sup> (UL Standard) // 5400 Pa (IEC Standards)
Impact Resistance	Steel ball - 1.18 lbs // 535 g dropped from 51" // 1.3 m high

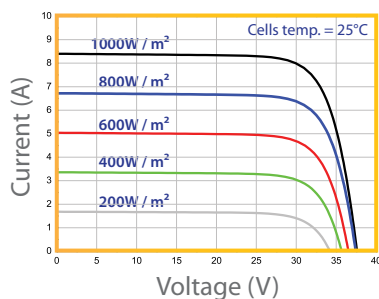
## Specifications

Cells	Monocrystalline silicon solar cells 6" x 6" // 156 mm x 156 mm
Cell Diameter	7.9" // 200 mm or above
Number of Cells	60 (6 x 10)
Dimensions (in // mm)	64.57 x 39.06 x 1.38 // 1640 x 992 x 35
Weight (lb // kg)	40.8 // 18.5

## Temperature Coefficients

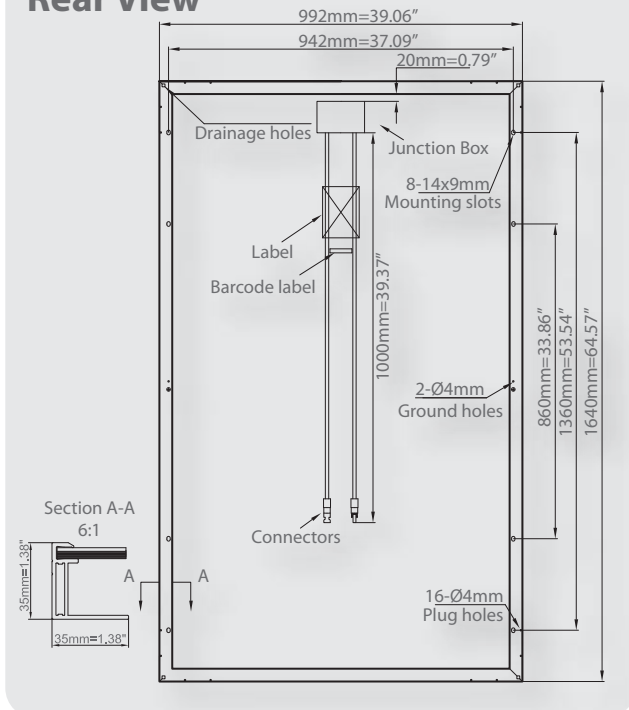
NOCT (°C)	45 ± 2
Temperature Coefficients of Isc (% / °C)	0.05 ± 0.01
Temperature Coefficients of Voc (% / °C)	-0.30 ± 0.02
Temperature Coefficients of Im (% / °C)	-0.02 ± 0.02
Temperature Coefficients of Vm (% / °C)	-0.42 ± 0.03
Temperature Coefficients of Pm (% / °C)	-0.43 ± 0.05

## IV Curves



● Deviation of Vm (V), Im (A), Voc (V) and Isc (A) of ±2.5%

## Rear View



## Options Available

SolarEdge Integrated

Tigo Integrated