

# 5" Monocrystalline PV module 72 cells

## Black Series



-  **Flexible Production\***
-  **High Quality Bill of Materials**
-  **Reinforced Module Warranty**
-  **Easy to handle, modular**
-  **Ideal for residential**
-  **Salt Mist and Ammonia Resistant**
-  **PID resistance verified by 3<sup>rd</sup> party labs**

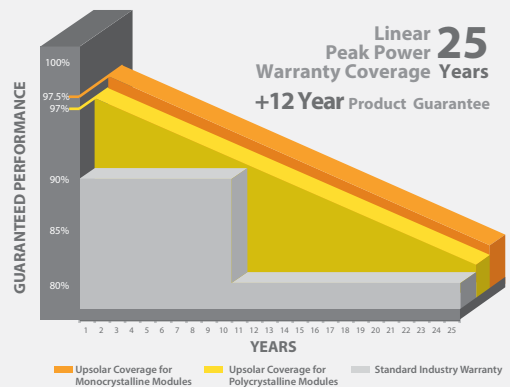


### Secure Investment

Upsolar provides exceptional product coverage for all modules to ensure our customers achieve superior long-term value from their solar installations. To further improve our product warranty, which covers unanticipated module damage, we've recently expanded our terms from a 10-year period to a 12-year period.

In addition, Upsolar offers a 25-year performance guarantee known as the Linear Module Warranty. Whereas traditional policies feature a single trigger point leading to drastic coverage reductions after just 10 years, Upsolar's coverage more accurately corresponds to system performance, providing coverage for over 25 years.

Third-party insurance plans are also available on a case-by-case basis. Overall, our goal is to deliver not only top-notch modules, but also peace of mind, for decades 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.

## Electrical Characteristics @ STC\*

MODEL	UP-M195M-B	UP-M200M-B	UP-M205M-B	UP-M210M-B	UP-M215M-B
Max Power Pm (Wp)	195	200	205	210	215
Max Power Voltage Vm (V)	36,8	37,0	37,2	37,4	37,6
Max Power Current Im (A)	5,30	5,41	5,51	5,61	5,72
Open-Circuit Voltage Voc (V)	45,6	45,9	46,2	46,4	46,6
Short-Circuit Current Isc (A)	5,50	5,60	5,70	5,79	5,88
Module Efficiency	15,3%	15,7%	16,1%	16,4%	16,8%
Maximum System Voltage (V)	1000(IEC)/1000(UL)				
Power Tolerance	0/+3%				
Series Fuse Rating (A)	15A				

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

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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 Standards) // 5400 Pa (IEC Standards)
Impact Resistance	Steel ball - 1.18 lbs // 535 g dropped from 51" // 1.3 m high

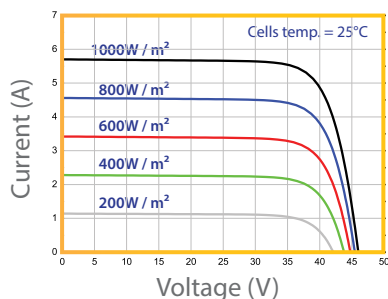
## Specifications

Cells	Monocrystalline silicon solar cells 5" x 5" // 125 mm x 125 mm
Cell Diameter	6.5" // 165 mm
Number of Cells	72 (6 x 12)
Dimensions (in // mm)	62.20 x 31.81 x 1.38 // 1580 x 808 x 35
Weight (lb // kg)	33.1 // 15.0

## Temperature Coefficients

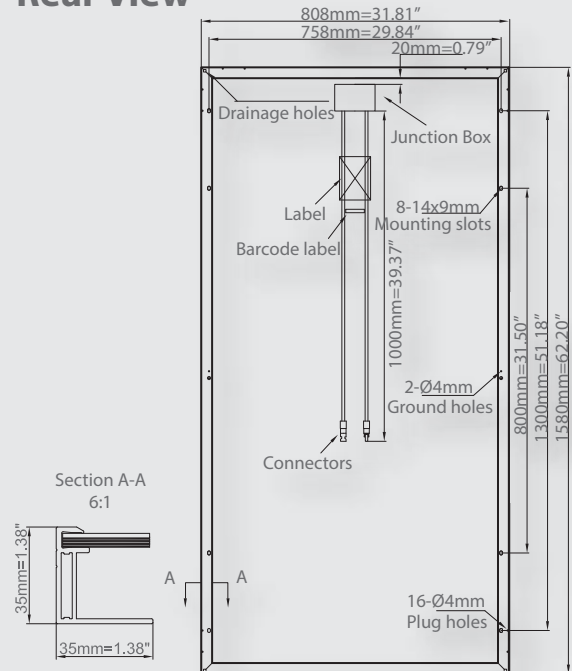
NOCT (°C)	45 ± 2
Temperature Coefficients of Isc (% / °C)	0.05 ± 0.01
Temperature Coefficients of Voc (% / °C)	-0.30 ± 0.02
Temperature Coefficients of Im (% / °C)	-0.02 ± 0.02
Temperature Coefficients of Vm (% / °C)	-0.42 ± 0.03
Temperature Coefficients of Pm (% / °C)	-0.43 ± 0.05

## IV Curves



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

## Rear View



## Options Available

SolarEdge Integrated

Tigo Integrated