

# 5" Monocrystalline PV module 72 cells



-  **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**

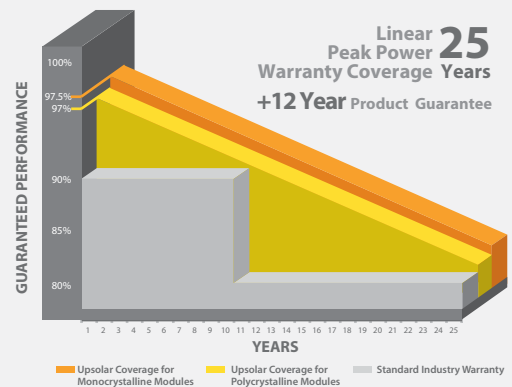


## Secure Investment

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-M200M	UP-M205M	UP-M210M	UP-M215M	UP-M220M
Max Power Pm (Wp)	200	205	210	215	220
Max Power Voltage Vm (V)	37,0	37,3	37,7	38,1	38,5
Max Power Current Im (A)	5,41	5,49	5,57	5,64	5,71
Open-Circuit Voltage Voc (V)	46,0	46,6	47,2	47,8	48,4
Short-Circuit Current Isc (A)	5,70	5,75	5,80	5,85	5,90
Module Efficiency	15,7%	16,1%	16,4%	16,8%	17,2%
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

## 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	White 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

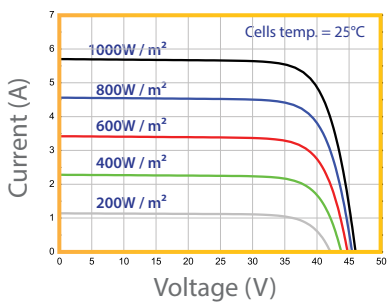
## Specifications

Cells	Monocrystalline silicon solar cells 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

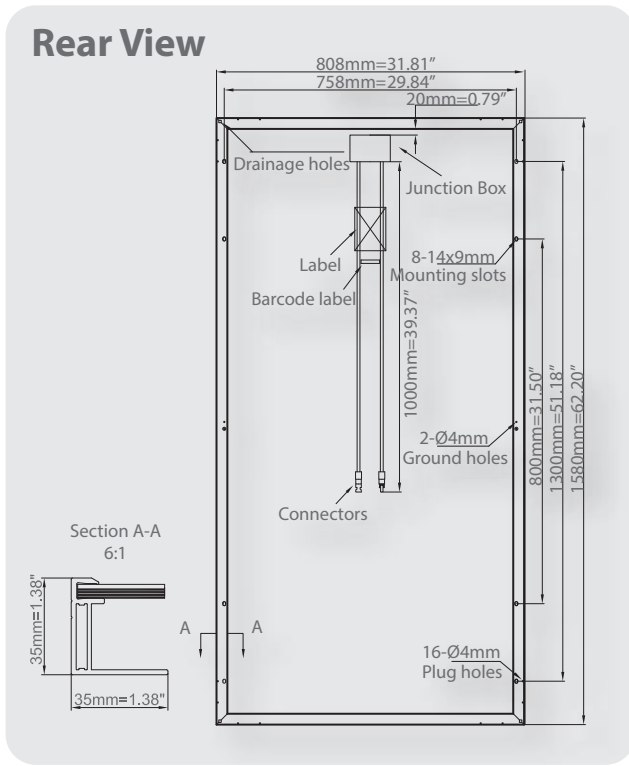
## Temperature Coefficients

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%



## Options Available

SolarEdge Integrated

Tigo Integrated