









# 6" Monocrystalline PV module 72 cells

## Key Features

-  **UL 1000V Rated**
-  **Flexible Production\***
-  **Reinforced Module Warranty**
-  **Reinforced Structure (thicker glass, stronger frame)**
-  **Ideal for ground mounted systems**
-  **Salt Mist and Ammonia Resistant**

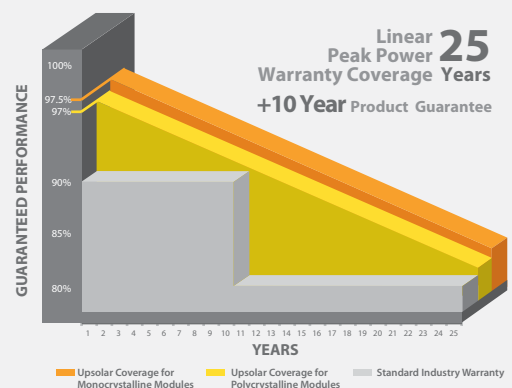


## Secure Investment

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-M305M           | UP-M310M | UP-M315M | UP-M320M | UP-M325M |
|-------------------------------|--------------------|----------|----------|----------|----------|
| Max Power Pm (Wp)             | 305                | 310      | 315      | 320      | 325      |
| Max Power Voltage Vm (V)      | 36.2               | 36.4     | 36.6     | 36.8     | 37.0     |
| Max Power Current Im (A)      | 8.43               | 8.52     | 8.61     | 8.70     | 8.78     |
| Open-Circuit Voltage Voc (V)  | 45.5               | 45.8     | 46.1     | 46.4     | 46.7     |
| Short-Circuit Current Isc (A) | 8.88               | 8.96     | 9.04     | 9.12     | 9.20     |
| Module Efficiency             | 15.7%              | 16.0%    | 16.2%    | 16.5%    | 16.7%    |
| 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

## Components & Mechanical Data

|                        |  |
|------------------------|--|
| Front Glass            | High Transparency Tempered Glass 0.157" // 4.0 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        |

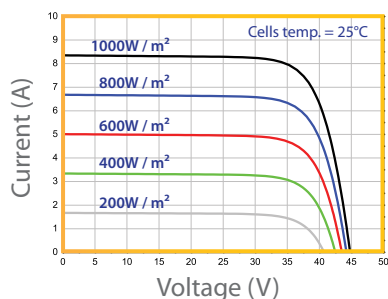
## Specifications

|                       |   |
|-----------------------|---|
| Cells                 | Monocrystalline silicon solar cells 6" x 6"<br>// 156 mm x 156 mm |
| Cell Diameter         | 7.9" // 200 mm or above   |
| Number of Cells       | 72 (6 x 12)   |
| Dimensions (in // mm) | 77.01 x 39.06 x 1.57 // 1956 x 992 x 40                           |
| Weight (lb // kg)     | 58.4 // 26.5  |

## Temperature Coefficients

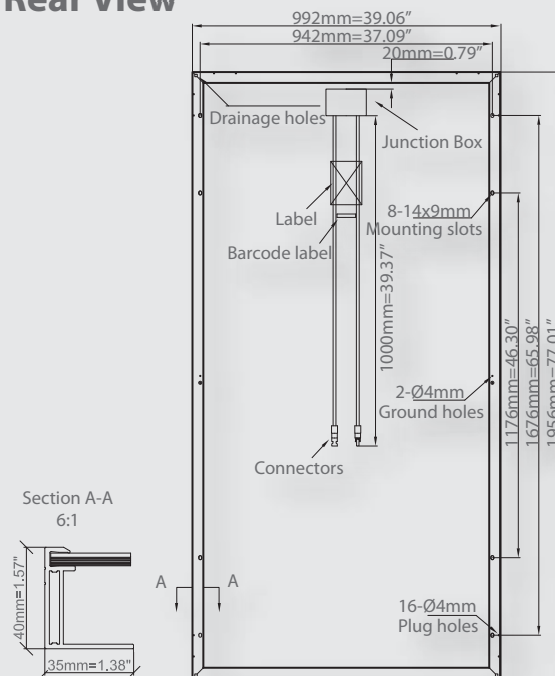
|  |              |
|--|--------------|
| NOCT (°C)                                | 45 ± 2       |
| Temperature Coefficients of Isc (% / °C) | 0.05 ± 0.01  |
| Temperature Coefficients of Voc (% / °C) | -0.30 ± 0.02 |
| Temperature Coefficients of Im (% / °C)  | -0.02 ± 0.02 |
| Temperature Coefficients 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