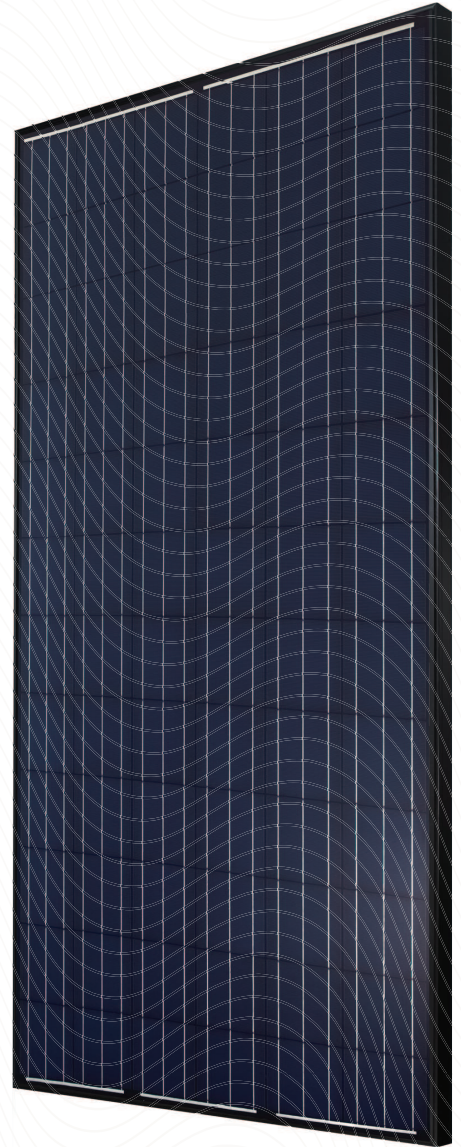




6" Polycrystalline PV module 72 cells

Black Series



- Flexible Production*
- High Quality Bill of Materials
- Reinforced Module Warranty
- Reinforced Structure (thicker glass, stronger frame)
- Ideal for ground mounted systems
- Salt Mist and Ammonia Resistant
- PID resistance verified by 3rd party labs

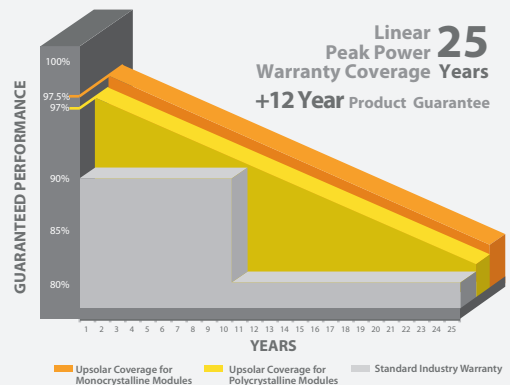


Secure Investment

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-M300P-B | UP-M305P-B | UP-M310P-B | UP-M315P-B | UP-M320P-B |
|-------------------------------|--------------------|------------|------------|------------|------------|
| Max Power Pm (Wp) | 300 | 305 | 310 | 315 | 320 |
| Max Power Voltage Vm (V) | 36.1 | 36.3 | 36.5 | 36.7 | 36.9 |
| Max Power Current Im (A) | 8.31 | 8.40 | 8.49 | 8.58 | 8.67 |
| Open-Circuit Voltage Voc (V) | 45.3 | 45.4 | 45.5 | 45.6 | 45.7 |
| Short-Circuit Current Isc (A) | 8.63 | 8.71 | 8.79 | 8.87 | 8.95 |
| Module Efficiency | 15.5% | 15.7% | 16.0% | 16.2% | 16.5% |
| Maximum System Voltage (V) | 1000(IEC)/1000(UL) | | | | |
| Power Tolerance | 0/+3% | | | | |
| Series Fuse Rating (A) | 20A | | | | |

*STC: Irradiance 1000 W/m², 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 ² , 12AWG) (PV Wire Type) |
| Connectors | MC4 compatible (IP67, IEC and UL approved) |
| Frame | Black 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 ² (UL Standard) // 5400 Pa (IEC Standards) |
| Impact Resistance | Steel ball - 1.18 lbs // 535 g dropped from 51" // 1.3 m high |

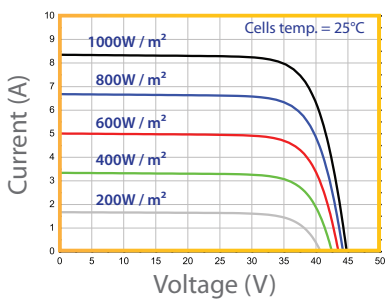
Specifications

| | |
|-----------------------|--|
| Cells | Polycrystalline silicon solar cells 6" x 6" // 156 mm x 156 mm |
| 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 |

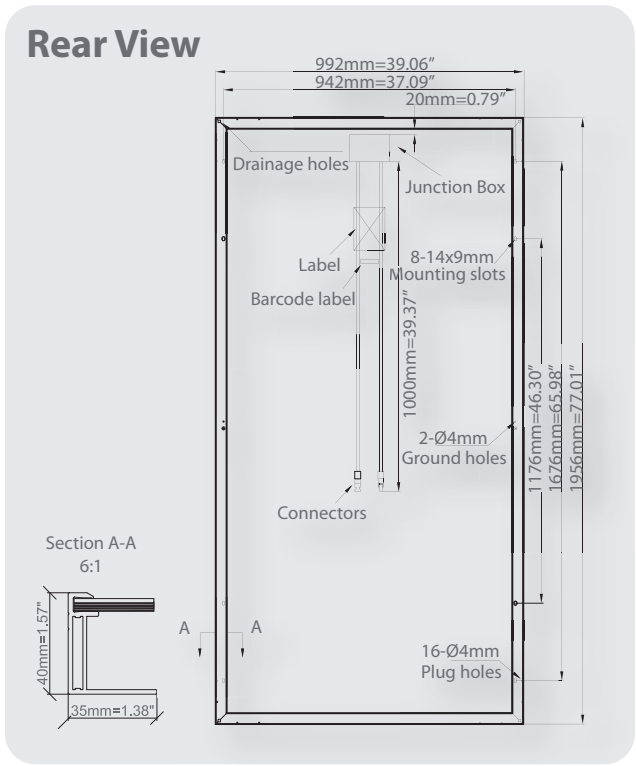
Temperature Coefficients

| | |
|--|--------------|
| 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%



Options Available

SolarEdge Integrated

Tigo Integrated