



6" Polycrystalline PV module 60 cells

Black Series



Key features

-  **High Quality Bill of Materials**
-  **Reinforced Module Warranty**
-  **Universal design (residential, commercial)**
-  **Best seller for its performance/price ratio**

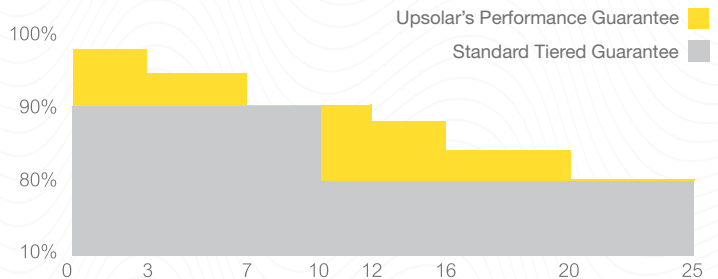


Secure Investment

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 offer only two trigger points over 25 years, the Reinforced Module Warranty features six trigger points at years 3, 7, 12, 16, 20 and 25. Upsolar also maintains relationships with third-party insurance providers to offer an additional layer of protection for interested parties.

Product guarantee for 10 years Performance guarantee for 25 years



NOTE:

- STD: Irradiance 1000 W/m², Module temperature 25°C, AM=1.5
- Nominal Operating Cell Temperature below data is only for reference
- Deviation of V_m (V), I_m (A), V_{oc} (V) and I_{sc} (A) of ±10%

Upsolar is not responsible for damages caused by errors or omissions on this data sheet. All information is subject to change without notice.

Electrical Characteristics

MODEL	UP-M235P-B	UP-M240P-B	UP-M245P-B	UP-M250P-B	UP-M255P-B
Max Power Pm (Wp)	235	240	245	250	255
Max Power Voltage Vm (V)	30.2	30.4	30.6	30.9	31.1
Max Power Current Im (A)	7.79	7.89	8.00	8.10	8.20
Open-Circuit Voltage Voc (V)	37.6	37.8	38.0	38.2	38.4
Short-Circuit Current Isc (A)	8.30	8.35	8.40	8.45	8.50
Module Efficiency	14.4%	14.8%	15.1%	15.4%	15.7%
Maximum System Voltage (V)	1000(IEC)/600(UL)				
Power Tolerance	±3%				
Series Fuse Rating (A)	20A				

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Components & Mechanical Data

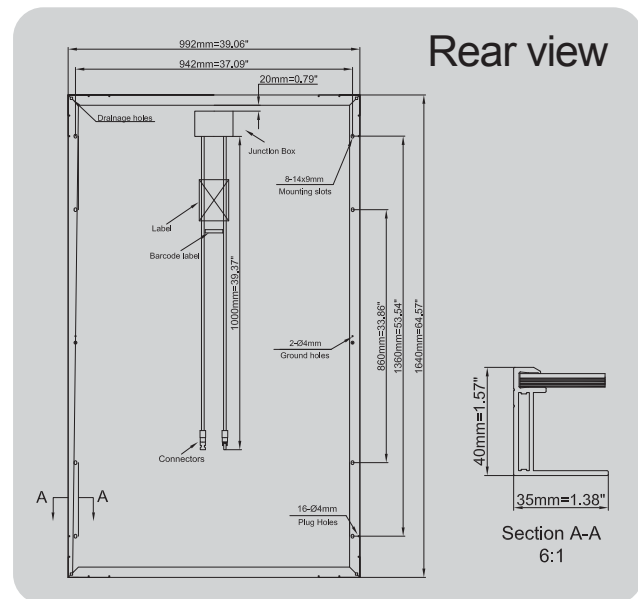
Front Glass	High Transparency Tempered Glass 0.125" // 3.2 mm
Junction Box	IP 65 or above
Bypass Diode	3 diodes
Output Cables	1.0 m // IEC, UL approved (4 mm ² , 12AWG) (PV Wire Type)
Connectors	MC4 IP67, IEC and UL approved
Frame	E-coated aluminium alloy type 6063-T5
Encapsulation Material	EVA (0.018" // 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

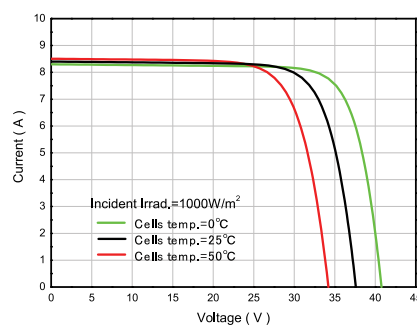
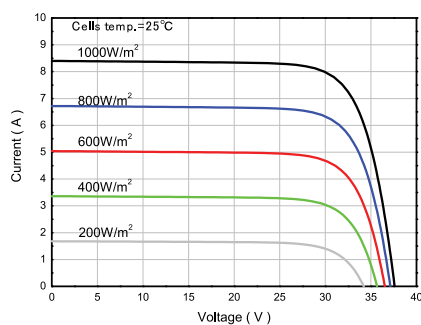
Cells	Polycrystalline silicon solar cells 6" x 6" // 156 mm x 156 mm
Number of Cells	60 (6 x 10)
Dimensions (in // mm)	64.57 x 39.06 x 1.57 // 1640 x 992 x 40
Weight (lb // kg)	41.9 // 19.0

Temperature Coefficients

NOCT (°C)	45 ± 2
Temperature Coefficients of Isc (% / °C)	0.05 ± 0.01
Temperature Coefficients of Voc (% / °C)	-0.32 ± 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



Options available

- Zep Frame
- Solrif Frame
- Tigo Integrated
- SolarEdge Integrated
- 35mm Frame
- Frameless