



# Mono Series | 6" PV Modules 60 cells

## Electrical Characteristics @ STC\*

## Black Series

MODEL	UP-M285M-B	UP-M290M-B	UP-M295M-B	UP-M300M-B	UP-M305M-B
Max Power Pm (Wp)	285	290	295	300	305
Max Power Voltage Vm (V)	31.6	31.8	32.0	32.2	32.4
Max Power Current Im (A)	9.02	9.12	9.22	9.32	9.41
Open-Circuit Voltage Voc (V)	40.1	40.4	40.7	41.0	41.3
Short-Circuit Current Isc (A)	9.40	9.50	9.58	9.67	9.76
Module Efficiency	17.5%	17.8%	18.1%	18.4%	18.7%
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 0.125" // 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 Standard) // 5400 Pa (IEC Standards)
Impact Resistance	Steel ball - 1.18 lbs // 535 g dropped from 51" // 1.3 m high

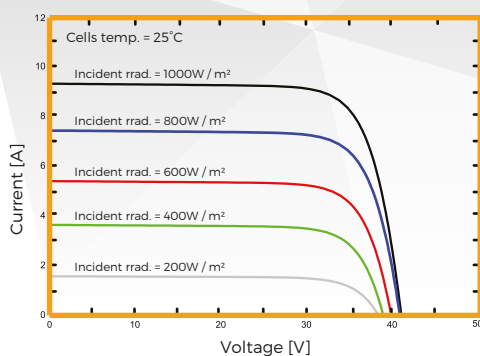
## Specifications

Cells	Monocrystalline silicon solar cells 6" x 6" // 156 mm x 156 mm
Number of Cells	60 (6 x 10)
Dimensions (in // mm)	64.57 x 39.06 x 1.38 // 1640 x 992 x 35
Weight (lb // kg)	40.8 // 18.5

## 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



## Options Available

SolarEdge Integrated  
Tigo Integrated

## Rear View

