

## WHY SBM SOLAR?

- Lightweight
- Shatterproof
- Strong & Durable
- High Transparency
- Low Glare
- High Efficiency
- Customizable
- Made in USA

## UL CERTIFICATION

SBM's 140W non-glass module has been UL(1703) certified since Jan.2010.

## IEC CERTIFICATION

SBM 140W non glass module has been IEC (61215) certified for Hail Impact Resistance by TÜV Rheinland PTL, LLC

For more information please visit us at: [www.sbmsolar.com](http://www.sbmsolar.com)

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**SBM Solar, Inc.**, is a PV panel manufactory producing non-glass PV panels using crystalline silicon cell (c-Si) at North Carolina facility since 2001. Its PV module, packaging with proprietary process and materials, provides excellent light transmission, impact resistant and strong durability.

### LIGHTWEIGHT

SBM's PV panels are 40-50% lighter than glass PV panels, provide the world's highest solar power to weight ratio in this class. This makes them perfect for use on commercial and residential roofs that have weight load restrictions, as well as military, marine, off grid and portable related applications. It also enables easier and lower cost shipping, handling, and installation.

### SHATTERPROOF

SBM PV panel has been certified (IEC61215) for hail impact resistance. Glass breakage and the subsequent loss of power is a potential issue with glass PV panels during shipping, handling, installation and other hazardous environmental conditions. SBM's panels are completely shatterproof even after hitting with a hammer, golf balls or shot with bullets from a gun. In most cases when panel surfaces were damaged, they still remain its integrity to function, producing power, without current leakage.

### STRONG & DURABLE

SBM's solar panels have been designed to withstand the most hazardous environmental conditions. Some SBM panels can even be walked upon. The fluoropolymer cover, as a front sheet, is well known for its long term protection ability in harsh environment. The support back panel ensures strong rigidity for PV panel durability.

## Specifications

Maximum Power (Pmax)	140W
Rated Voltage (Vmp)	18.36V
Rated Current (Imp)	7.58A
Open Circuit Voltage (Voc)	22.03V
Short Circuit Current (Isc)	8.23A
Max Fuse Rating	15 A
Weight lbs (kg)	20 lbs (9.1kg)
Power to Weight Ratio: Watts Per lbs	6.7W/lbs (14W/kg)
Dimensions (inches)	39 x 40 x 1½
Module Area ft <sup>2</sup> (m <sup>2</sup> )	10.9 ft <sup>2</sup> (1.01m <sup>2</sup> )
Power Output: Watts per ft <sup>2</sup>	12.8W
Diodes per module	15A (Qty 3)
Mono Crystalline Solar Cells	36 Cells
Cell Efficiency	>15%

### HIGH TRANSPARENCY / LOW GLARE

Blinking glare associated with glass panels can be dangerous and unsafe under certain application environment. SBM's PV panels equipped with special cover film that reduce the glare and improve the light absorption. This makes SBM PV panels perfect for applications where glare is a critical safety issue such as in marine, military, airport, and highway installations.

### HIGH EFFICIENCY c-Si SOLAR CELLS

SBM PV panels produce more than twice the wattage per square foot compared to thin film or other non-glass module types. They have over 14% module efficiency compared to thin film's 6-8% module efficiency.

### CUSTOMIZABLE

Addition from standard panels, SBM also develops customized and/or building integrated (BIPV) solar applications. This gives optimal architectural flexibility which also preserves design and aesthetic integrity. For example, SBM low profile framed PV modules are less than 0.5 inch or 10mm thick with its junction box integrated into the panel.

**GO GREEN & DEMAND THE BEST!**