

what we offer  
**YOUR BEST PV SUPPLIER**

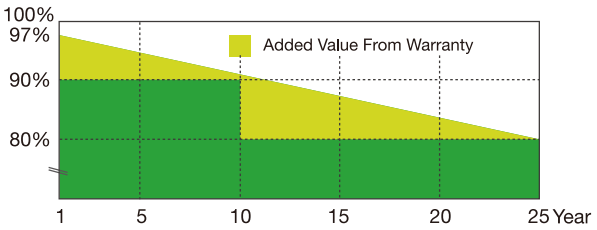
# BSM310M-60/5BB Monocrystalline 60 cells 290w-310w

## 1 Reliable Quality

- Positive power tolerance: 0~+5W
- 100% EL double-inspection ensures modules are defects free
- Modules binned by current to improve system performance
- Potential Induced Degradation (PID) Resistant

## 2 Superior Warranty

- 10-year product warranty
- 25-year linear power output warranty



## 3 Key features

- Monocrystalline modules designed for commercial and solar farm grid-tied applications
- High power output and highest conversion efficiency
- Anti-reflective and anti-soiling surface reduces power loss from dirt and dust
- Outstanding performance in low-light irradiance environments
- Excellent mechanical load resistance: Certified to withstand high wind loads (2400Pa) and snow loads (5400Pa)
- High salt and ammonia resistance certified by TÜV NORD



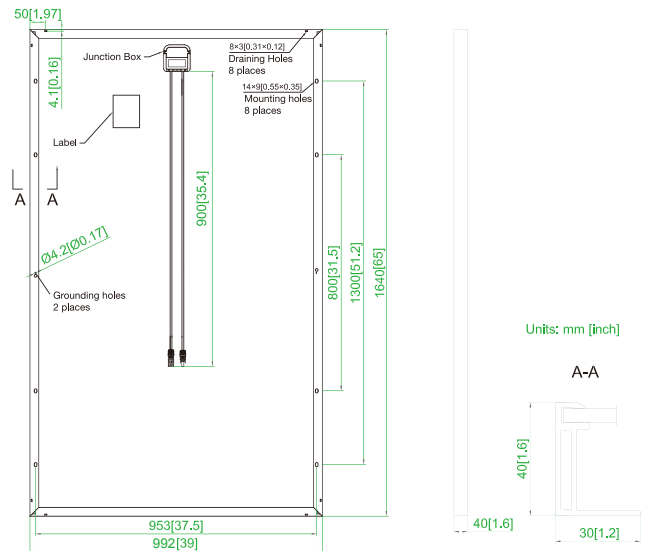
## Mechanical Parameters

Cell (mm)	Mono 156x156
Weight (kg)	18 (approx)
Glass Thickness	4/3.2mm
Dimensions (LxWxH) (mm)	1640x992x40
Cable Cross Section Size (mm <sup>2</sup> )	4
No. of Cells and Connections	60 (6x10)
Junction Box	IP67, 3 diodes
Connector	MC4 Compatible
Packaging Configuration	26 Per Pallet

## Working Conditions

Maximum System Voltage	DC 1000V (IEC)
Operating Temperature	-40°C ~ +85°C
Maximum Series Fuse	20A
Maximum Static Load, Front (e.g., snow and wind)	5400Pa (112 lb/ft <sup>2</sup> )
Maximum Static Load, Back (e.g., wind)	2400Pa (50 lb/ft <sup>2</sup> )
NOCT	45±2°C
Application Class	Class A

## Engineering Drawings



## Electrical Parameters

Module	BSM290M-60	BSM295M-60	BSM300M-60	BSM305M-60	BSM310M-60
Rated Maximum Power at STC (W)	290	295	300	305	310
Open Circuit Voltage (Voc/V)	38.9	39.6	39.8	40.0	40.2
Maximum Power Voltage (Vmp/V)	32.2	32.5	32.6	32.9	33.1
Short Circuit Current (Isc/A)	9.66	9.68	9.77	9.85	9.94
Maximum Power Current (Imp/A)	9.01	9.08	9.19	9.28	9.37
Module Efficiency [%]	17.7	18.0	18.3	18.6	18.9
Power Tolerance (W)			-0~+5W		
Temperature Coefficient of Isc (dIsc)			+0.058%/°C		
Temperature Coefficient of Voc (βVoc)			-0.330%/°C		
Temperature Coefficient of Pmax (γPmp)			-0.410%/°C		

STC Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass 1.5

## I-V Curve

