

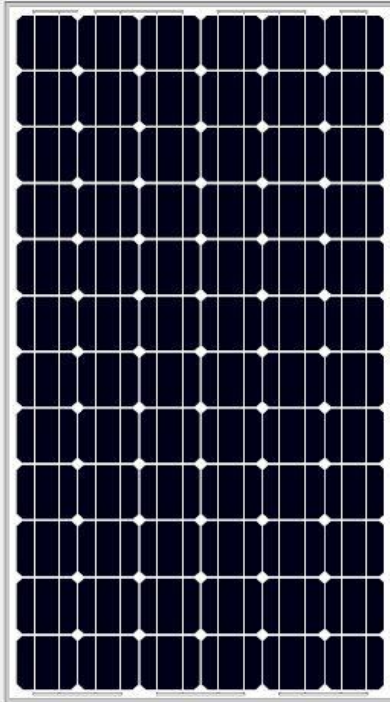
# AURORA SOLAR ENERGY

CANADIAN NORTH  
APPROVED

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## BSM200M-72

## Monocrystalline 72 cells 190w-210w



### Key Features



Widely using of the most popular and mature type of modules for off-grid system



High power output and highest conversion efficiency of 16.51%



Anti-reflective and anti-soiling surface reduces power loss from dirt and dust



Outstanding performance in low-light irradiance environments



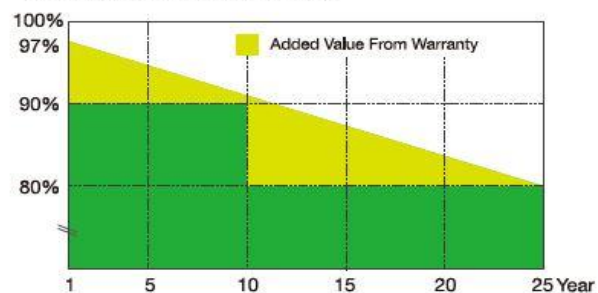
Excellent mechanical load resistance: Certified to withstand high wind loads (2400Pa) and snow loads (5400Pa)



High salt and ammonia resistance certified by TÜV NORD

### Superior Warranty

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



### 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



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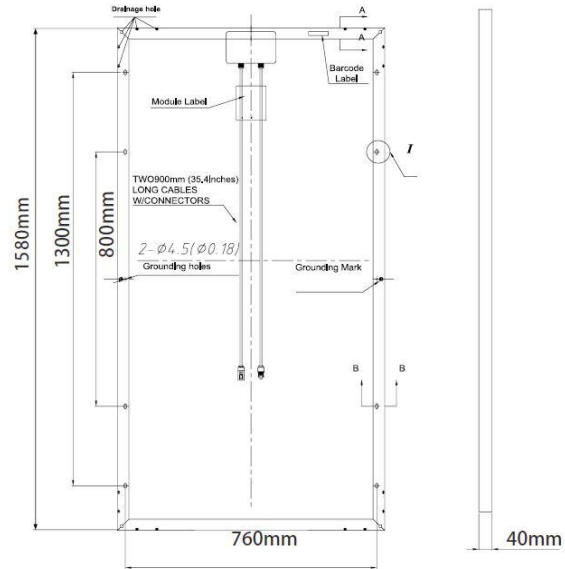
## Mechanical Parameters

Cell (mm)	Mono 125x125
Weight (kg)	15 (approx)
Glass Thickness (mm)	3.2
Dimensions (LxWxH) (mm)	1580x808x35/40
Cable Cross Section Size (mm <sup>2</sup> )	4
No. of Cells and Connections	72 (6x12)
Junction Box	IP67, 3 diodes
Connector	MC4 Compatible
Packaging Configuration	23 Per Pallet

## Working Conditions

Maximum System Voltage	DC 1000V (IEC)
Operating Temperature	-40°C ~ +85°C
Maximum Series Fuse	15A
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	BSM190M-72	BSM195M-72	BSM200M-72	BSM205M-72	BSM210M-72
Rated Maximum Power at STC (W)	190	195	200	205	210
Open Circuit Voltage (Voc/V)	45.00	45.10	45.30	45.55	45.80
Maximum Power Voltage (Vmp/V)	36.50	37.00	37.60	37.90	38.00
Short Circuit Current (Isc/A)	5.56	5.63	5.72	5.79	5.83
Maximum Power Current (Imp/A)	5.21	5.28	5.33	5.41	5.53
Module Efficiency [%]	14.86	15.27	15.67	16.06	16.45
Power Tolerance (W)			-0~+5W		
Temperature Coefficient of Isc (αIsc)			+0.059%/°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

