



# BSM420M-720PH

**Mono**  
**400-420W**



**YOUR  
BEST  
PV  
SUPPLIER**

**420W**

Maximum Power Output

**21.1%**

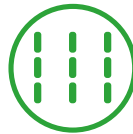
Maximum Module Efficiency

**0~+5W**

Power Output Guarantee



Ideal choice for large scale ground installation



More evenly distributed soldering points and better reliability and lower hot spot risk



Selected encapsulating material and stringent production process control ensure the product is highly PID resistant and snail trails free



Lower LID due to lower oxygen and carbon content



Special cell process ensures great performance under low irradiance conditions

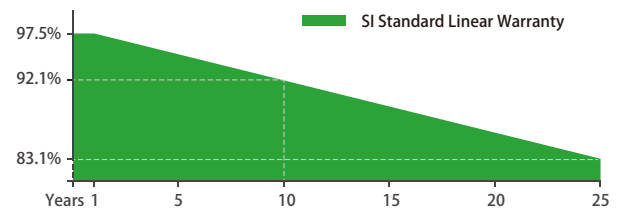


Highly transparent self-cleaning glass brings additional yield and easy maintenance

## Key features

- World-class manufacturer of crystalline silicon photovoltaic modules
- Fully automatic facility and world-class technology
- Rigorous quality control to meet the highest standard: ISO9001:2015, ISO14001: 2015 and OHSAS: 18001 2007
- Tested for harsh environments (salt mist, ammonia corrosion and sand blowing test: IEC 61701, IEC 62716, DIN EN 60068-2- 68)
- Long term reliability tests
- 2×100% EL inspection ensuring defect-free modules

## Linear Performance Warranty



10 Years Product Warranty 25 Years Linear Power Warranty

\* Please refer to Bluesun standard warranty for details

## Certificate



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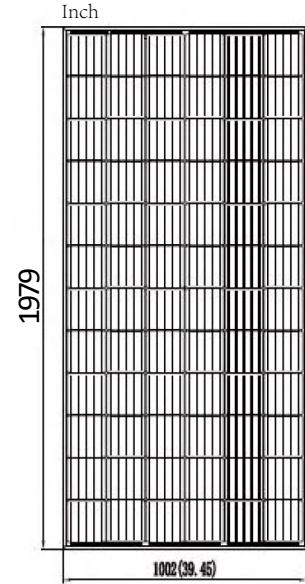




## ELECTRICAL PARAMETERS AT STC

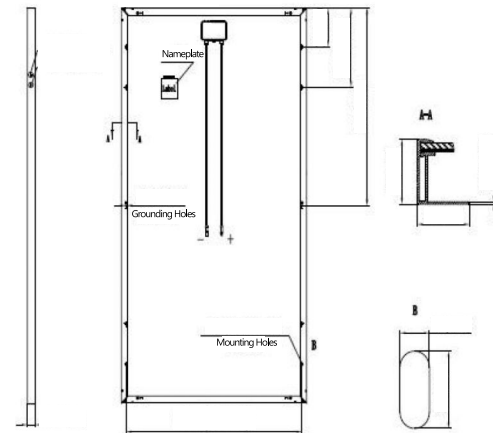
Model	BSM400M -72OPH	BSM405M -72OPH	BSM410M -72OPH	BSM415M -72OPH	BSM420M -72OPH
Max Power(Pmax) [W]	400	405	410	415	420
Open Circuit Voltage(Voc) [V]	49.2	49.3	49.5	49.8	50.0
Short Circuit Current(Isc) [A]	10.48	10.56	10.63	10.70	10.75
Max Power Voltage(Vmp) [V]	40.5	40.7	40.9	41.1	41.4
Max Power Current(Imp) [A]	9.88	9.96	10.03	10.10	10.15
Module Efficiency [%]	20.2	20.4	20.7	20.9	21.1
Power Tolerance	0-5W				
Max System Voltage	1000V/1500V/DC(IEC)				
Max Series Fuse Rating	20A				
Operating Temperature	-40 °C to +85 °C				
STC	Irradiance 1000W/m <sup>2</sup> , cell temperature 25 °C, AM1.5				

\*For mechanical loading performance: front side maximum static loading 5400Pa, rear side maximum static loading 2400Pa; hailstone test: 25mm hailstone at the speed of 23m/s



## NOCT

Model Number	BSM400M -72OPH	BSM405M -72OPH	BSM410M -72OPH	BSM415M -72OPH	BSM420M -72OPH
Max Power(Pmax) [W]	298.4	302.2	305.8	309.5	313.1
Open Circuit Voltage (Voc)	45.6	45.9	46.1	46.4	46.5
Short Circuit Current (Isc)	8.40	8.52	8.58	8.64	8.68
Maximum Power Voltage (Vmp)	37.4	37.7	37.9	38.1	38.4
Maximum Circuit Current (Imp)	7.88	8.01	8.07	8.12	8.16
NMOT	43°C±2				

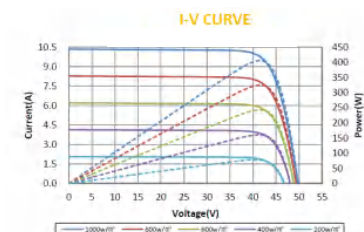
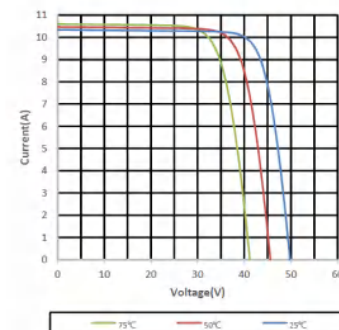


## Mechanical Characteristics

Solar Cells	Monocrystalline Silicon
Dimensions	1979×1002×35mm (77.91×39.45×1.38inches)
Weight	22.5 kg(49.6lbs.)
Front Load	5400Pa
Connector Type	MC4 Compatible
Junction Box	IP68
Cables	4mm <sup>2</sup>
Glass	3.2mm High Transmission Tempered Glass
Frame	Anodized Aluminium Alloy
Packing	30pcs/pallet,360pcs/20GP,832pcs/40HQ

## I-V Curves

Current-Voltage Curve (BSM400M-72OPH)



## Temperature Characteristics

Temperature Coefficient of Pmax	$\gamma$ (Pm)	-0.39%/ °C
Temperature Coefficient of Voc	$\beta$ (Voc)	-0.30%/ °C
Temperature Coefficient of Isc	$\alpha$ (Isc)	0.05%/ °C