



# BSM500PM5-72SB

## 480~500W

MONOFACIAL MODULE

### BLUESUN SOLAR CO.,LTD

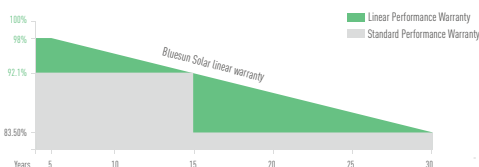
Bluesun, founded in 2004, as a superior photovoltaic manufacturer, is devoted to the R&D and the production of crystalline silicon solar cells and modules for 17 years. The company has its sales areas spread all over more than 100 countries and regions in the world, and the cumulative historical shipments exceeded 12 GW.

### PERFORMANCE WARRANTY

**15** Enhanced Product Warranty on Materials and Work man ship.

**25** Linear Power Performance Warranty\*

**0.55%** Annual Degradation Over 25 years no more than 0.55%



\*According to the applicable Bluesun Solar Limited Warranty Statement.

### MANAGEMENT SYSTEM CERTIFICATES

ISO 9001:2015 / Quality management system

ISO 14001:2015 / Standards for environmental

ISO 45001: 2018 / International standards for occupational health & safety

### PRODUCT CERTIFICATES

IEC 61215 / IEC 61730 / CE



### THE IDEAL SOLUTION FOR:



#### Shingled Technology

Innovative structure, low -temperature adhesive bonding, high-density layout



#### Beautiful Appearance

Uniform layout, better aesthetic



#### Superior safety and Reliability

No hidden welding crack, low operating temperature, high pressure resistance



#### Low System Cost

High module efficiency, reducing system cost



#### Low Shading Loss

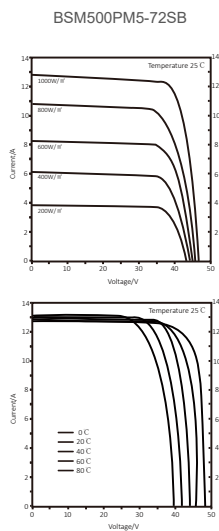
Full parallel arrangement brings high effective power generation hours

## SPECIFICATIONS

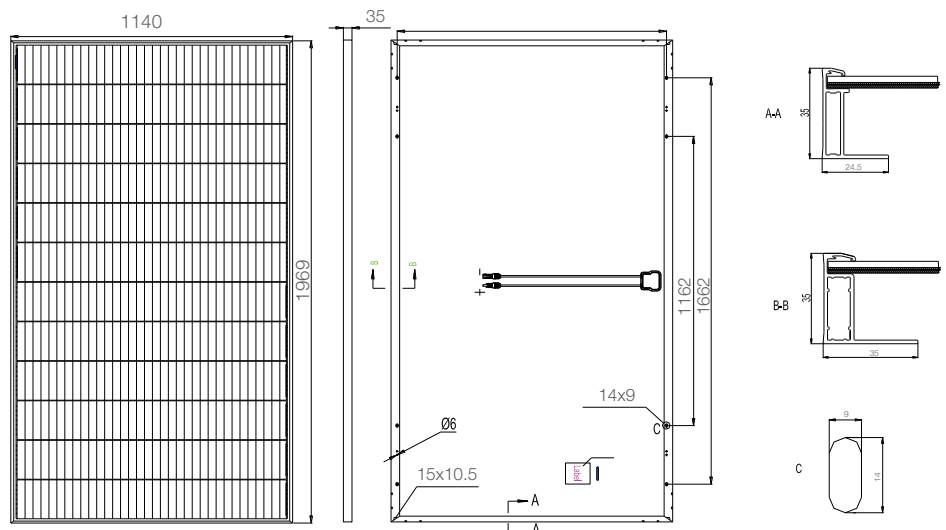
Module Type	BSM480PM5-72SB		BSM485PM5-72SB		BSM490PM5-72SB		BSM495PM5-72SB		BSM500PM5-72SB	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax/W)	480	361	485	365	490	369	495	373	500	377
Operating Voltage (Vmpp/V)	38.7	37.0	38.7	37.0	38.8	37.1	38.9	37.2	39.0	37.3
Operating Current (Impp/A)	12.40	9.77	12.53	9.87	12.63	9.95	12.72	10.02	12.82	10.11
Open-Circuit Voltage (Voc/V)	46.5	44.4	46.5	44.4	46.6	44.5	46.7	44.6	46.8	44.7
Short-Circuit Current (Isc/A)	13.16	10.62	13.22	10.67	13.28	10.72	13.34	10.77	13.40	10.82
Module Efficiency $\eta_m(\%)$	21.4		21.6		21.8		22.0		22.2	

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5 NMOT: Irradiance at 800W/m<sup>2</sup>, Ambient Temperature 20°C, Air Mass AM1.5, Wind Speed 1m/s

## I-V CURVE



## ENGINEERING DRAWINGS



## MECHANICAL SPECIFICATION

Cell Type	Monocrystalline Perc
Cell Arrangement	408
Weight	24.5kg
Module Dimensions	1969*1140*35mm
Cable Length	1200mm
Cable Cross Section Size	TUV: 4mm <sup>2</sup> (0.006inches <sup>2</sup> )/UL: 12AWG
Front Glass	3.2mm (0.13inches) AR Coating Tempered Glass
No. of Bypass Diodes	2
Packing Configuration	31pcs/carton, 682pcs/40hq
Frame	Anodized Aluminium Alloy
Junction Box	IP68

## OPERATING CONDITIONS

Maximum System Voltage	1500/1000V DC(IEC)
Operating Temperature	-40°C~ +85°C
Maximum Series Fuse	20A
Static Loading	Snow Loading: 5400Pa/ Wind Loading: 2400Pa
Conductivity at Ground	≤0.1Ω
Safety Class	II
Resistance	≥100MΩ
Connector	T01/LJQ-3-CSY/MC4/MC4-EVO2

## TEMPERATURE COEFFICIENT

Temperature Coefficient Pmax	-0.35%/°C
Temperature Coefficient Voc	-0.26%/°C
Temperature Coefficient Isc	+0.048%/°C
NMOT	42.3±2°C

\*Data contained in these specifications is subject to change without notice. Bluesun Solar reserves the right to final interpretation of content.