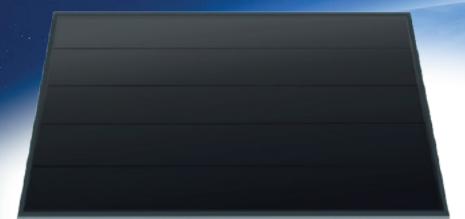


BSM440PMB7-46SC

420-440W SHINGLED PERC



### Features

### Shingled Technology

Innovative structure with low-temperature adhesive bonding and a high-density layout.

### **Beautiful Apperance**

Deep black, uniform layout for enhanced aesthetics.

**30**year

rformance

### **Compact Design**

Up to 440 Wp output within 2 m<sup>2</sup>.

0.55%

Annual Degradation Over 30 years no more than 0.55%

Founded in 2004, Bluesun is a leading photovoltaic manufacturer

dedicated to the research, development, and production of crystalline silicon solar cells and modules for 17 years. The

company has sales in over 100 countries and regions worldwide,



#### Low Shading Loss Full parallel arrangement maximizes effective power generation hours.

High module efficiency, reducing system cost.



### The ideal solution for:

Low System Cost

Rooftop arrays on residential buildings.



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

### MANAGEMENT SYSTEM CERTIFICATES

with cumulative historical shipments exceeding 12 GW.

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





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## PERFORMANCE WARRANTY

15<sub>year</sub>

Quality Warrant

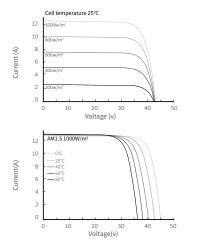
### **SPECIFICATIONS**

Module Type	BSM420PMB7-46SC		BSM425PMB7-46SC		BSM430PMB7-46SC		BSM435PMB7-46SC		BSM440PMB7-46SC	
	STC	ΝΜΟΤ	STC	ΝΜΟΤ	STC	ΝΜΟΤ	STC	NMOT	STC	ΝΜΟΤ
Maximum Power (Pmax/W)	420	316	425	320	430	324	435	328	440	332
Operating Voltage (Vmp/V)	34.5	32.9	34.6	33.0	34.7	33.1	34.8	33.2	34.9	33.3
Operating Current (Imp/A)	12.19	9.62	12.30	9.70	12.39	9.79	12.50	9.88	12.60	9.97
Open-Circuit Voltage (Voc/V)	41.6	39.7	41.7	39.8	41.8	39.9	41.9	40.0	42.0	40.1
Short-Circuit Current (Isc/A)	12.92	10.41	13.03	10.50	13.14	10.60	13.26	10.71	13.37	10.82
Module Efficiency nm(%)	21.1		21.4		21.7		21.9		22.2	

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5

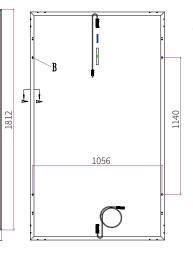
NMOT: Irradiance at 800W/m², Ambient Temperature 20°C, Air Mass AM 1.5, Wind Speed 1m/s

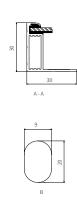
### **I-V CURVE**



### **ENGINEERING DRAWINGS**

1096





### **MECHANICAL SPECIFICATION**

Cell Type	Mono-crystalline solar cell
Weight	21.2kg
Module Dimensions	1812*1096*30mm
Cable Length	+300mm/-1000(Vertical) +220mm/-180mm(Horizontal)
Cable Cross Section Size	TUV: 4mm²(0.006inches²)/UL: 12AWG
Front Glass	3.2mm (0.13inches) AR Coating Tempered Glass
No. of Bypass Diodes	2
Packing Configuration	36pcs/carton, 924pcs/40hq
Frame	Anodized Aluminium Alloy
Junction Box	IP68

### **OPERATING CONDITIONS**

Maximun System Voltage	1500/1000V DC(IEC)
Operating Temperature	-40°C~ +85°C
Maximun Series Fuse	25A
Static Loading	Snow Loading: 5400Pa/ Wind Loading: 2400Pa
Conductivity at Ground	≤0.1Ω
Safety Class	Ш
Resistance	≥100MΩ
Connector	T01/LJQ-3-CSY/MC4/MC4-EVO2

### **TEMPERATURE COEFFICIENT**

Temperature Coefficient Pmax	-0.34%/°C
Temperature Coefficient Voc	-0.27%/°C
Temperature Coefficient Isc	+0.04%/°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.

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