

**QUA** **ULTRA**

# BSM700PMB6-70SDC

## 675~700W

BIFACIAL

210 cell

N-Type

HJT

### BLUESUN SOLAR CO.,LTD

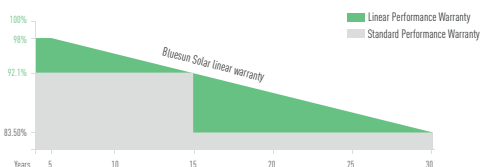
Bluesun, founded in 2004, as a superior photovoltaic manufacturer, is devoted to the R&D and the production of crystalline silicon solar cells and modules for 17 years. The company has its sales areas spread all over more than 100 countries and regions in the world, and the cumulative historical shipments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

### PERFORMANCE WARRANTY

**15** Enhanced Product Warranty on Materials and Workmanship.

**30** Linear Power Performance Warranty\*

**0.55%** Annual Degradation Over 30 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:



Ground-mounted solar power plants



#### 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

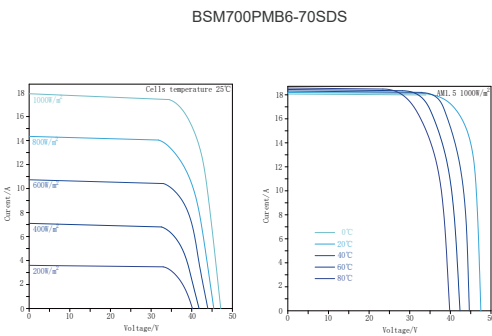
Module Type	BSM675PMB6-70SDC		BSM680PMB6-70SDC		BSM685PMB6-70SDC		BSM690PMB6-70SDC		BSM695PMB6-70SDC		BSM700PMB6-70SDC	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax/W)	675	508	680	512	685	516	690	520	695	524	700	527
Operating Voltage (Vmp/V)	39.20	37.40	39.30	37.50	39.40	37.60	39.50	37.70	39.60	37.80	39.60	37.80
Operating Current (Imp/A)	17.23	13.62	17.32	13.70	17.41	13.78	17.49	13.86	17.57	13.94	17.68	14.22
Open-Circuit Voltage (Voc/V)	47.20	45.00	47.30	45.10	47.40	45.20	47.50	45.30	47.60	45.40	47.70	45.50
Short-Circuit Current (Isc/A)	18.32	14.77	18.41	14.85	18.50	14.93	18.59	15.01	18.68	15.09	18.80	14.69
Module Efficiency $\eta$ (%)	21.90		22.10		22.30		22.50		22.60		22.81	

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

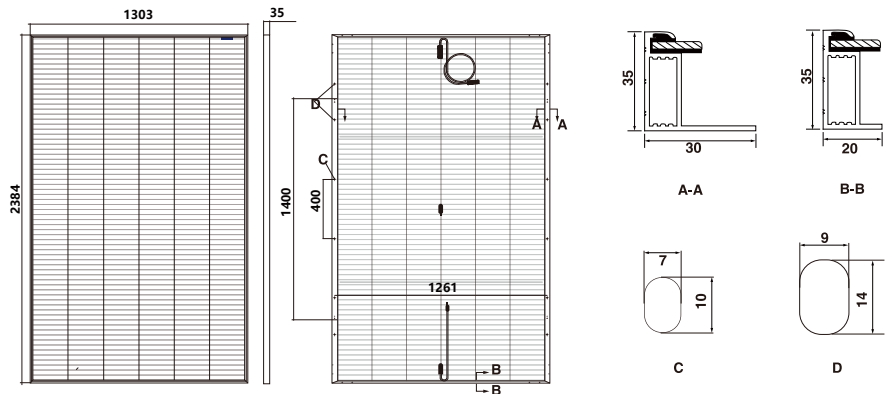
## Electrical characteristics with different rear side power gain (refer to 700W front)

Pmax gain	Pmax/W	Vmpp/V	Imp/A	Voc/V	Isc/A
5%	735	39.6	18.56	47.7	19.74
10%	770	39.6	19.45	47.7	20.68
15%	805	39.6	20.33	47.7	21.62
20%	840	39.6	21.22	47.8	22.56
25%	875	39.6	22.10	47.8	23.50

## I-V CURVE



## ENGINEERING DRAWINGS



## MECHANICAL SPECIFICATION

Cell Type	N-Type Monocrystalline
Cell Dimensions	210*210mm
Cell Arrangement	414
Weight	39.0kg
Module Dimensions	2384*1303*35mm
Cable Length	Portrait 300mm/Landscape 1200mm/Customized
Cable Cross Section Size	TUV: 4mm <sup>2</sup> (0.006inches <sup>2</sup> )/UL: 12AWG
Front Glass	2.0 mm (0.08 inches) AR Coating Tempered Glass
Back Glass	2.0mm (0.08 inches) Glazed Semi-tempered Glass
No. of Bypass Diodes	3
Packing Configuration	31pcs/carton, 558pcs/40hq
Frame	Anodized Aluminium Alloy
Junction Box	IP68

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

## OPERATING CONDITIONS

Maximun System Voltage	1500V/DC(IEC)
Operating Temperature	-40°C~ +85°C
Maximun Series Fuse	30A
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
Backside Output Ratio*	70%±5%

\*Under STC: Backside Ouput Ratio= P<sub>max(rear)</sub> / P<sub>max(front)</sub>

## TEMPERATURE COEFFICIENT

Temperature Coefficient Pmax	-0.35%/°C
Temperature Coefficient Voc	-0.26%/°C
Temperature Coefficient Isc	+0.048%/°C
NMOT	43±2°C