



QUA ULTRA
BIFACIAL MODULE

BSM600PMB6-60SDC

585~610W

SHINGLED PERC

BIFACIAL

210 cell

N-Type

HJT

BLUESUN SOLAR CO.,LTD

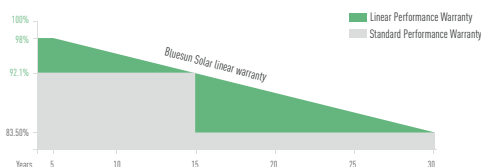
Bluesun, founded in 2004, as a superior photovoltaic manufacturer, is devoted to the R&D and the production of crystalline silicon solar cells and modules for 17 years. The company has its sales areas spread all over more than 100 countries and regions in the world, and the cumulative historical shipments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

PERFORMANCE WARRANTY

15 Enhanced Product Warranty on Materials and Workmanship.

30 Linear Power Performance Warranty*

0.45% Annual Degradation Over 30 years no more than 0.45%



*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	BSM585PMB6-60SDC		BSM590PMB6-60SDC		BSM595PMB6-60SDC		BSM600PMB6-60SDC		BSM605PMB6-60SDC		BSM610PMB6-60SDC	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (P _{max} /W)	585	434	590	438	595	442	600	446	605	450	610	454
Operating Voltage (V _{mp} /V)	39.80	37.90	39.90	38.00	40.00	38.10	40.10	38.20	40.20	38.30	40.30	38.40
Operating Current (I _{mp} /A)	14.71	11.46	14.80	11.53	14.89	11.61	14.98	11.69	15.07	11.76	15.16	11.84
Open-Circuit Voltage (V _{oc} /V)	47.80	45.50	47.90	46.60	48.00	45.70	48.10	45.80	48.20	45.90	48.30	46.00
Short-Circuit Current (I _{sc} /A)	15.67	12.62	15.77	12.70	15.87	12.78	15.97	12.86	16.07	12.94	16.17	13.02
Module Efficiency in STC η _m (%)	22.40		22.60		22.80		23.00		23.20		23.4	

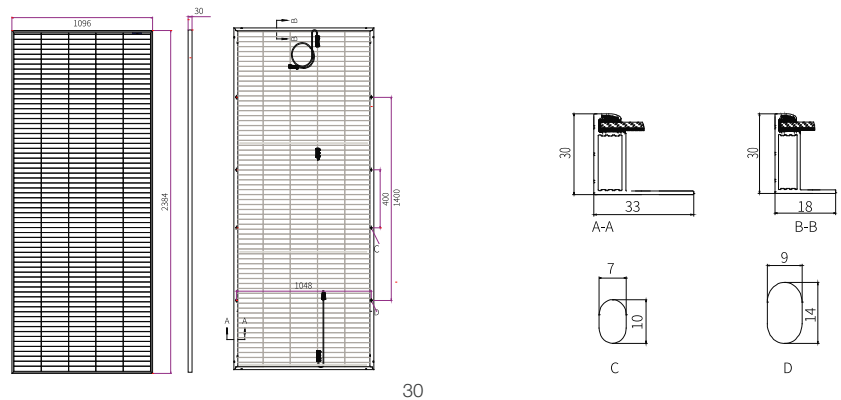
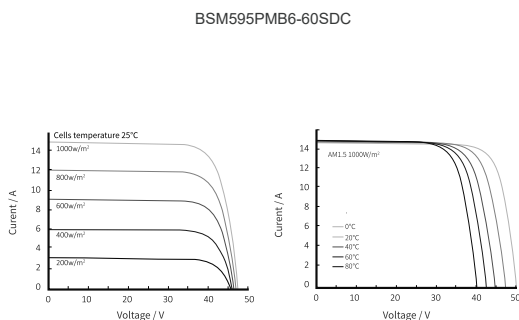
STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5 NMOT: Irradiance at 800W/m², Ambient Temperature 20°C, Air Mass AM1.5, Wind Speed 1m/s

Electrical characteristics with different rear side power gain (refer to 595W front)

P _{max} gain	P _{max} /W	V _{mpp} /V	I _{mp} /A	V _{oc} /V	I _{sc} /A
5%	624	40.00	15.61	48.00	16.68
10%	654	40.00	16.36	48.00	17.48
15%	684	40.00	17.11	48.00	18.28
20%	714	40.10	17.81	48.00	19.08
25%	743	40.10	18.54	48.00	19.86
30%	773	40.10	19.28	48.00	20.65

I-V CURVE

ENGINEERING DRAWINGS



Mechanical Characteristics

Dimensions	2384 × 1096 × 30mm
Weight	32.0 ± 0.3kg
Front Glass	tempered glass, 2.0mm
Frame	Anodized aluminum profile
Cells	Mono-crystalline solarcell
Cell Orientation	345 (69°5)
Junction Box	IP68, three diodes
Cable	Customizable / 4mm ²
Packaging	36pcs/box; 720pcs/40'HQ; 1008 pcs/flat car

Maximum Ratings

Maximum System Voltage [V]	DC 1500
Series Fuse Rating [A]	30
Surface Load Capacity [Pa]	Front5400/Back2400
Temperature Range [°C]	-40~+85
Withstanding Hail	Maximum diameter of 25 mm with impact speed of 23 m/s

TEMPERATURE COEFFICIENT

Temperature Coefficient P _{max}	-0.34%/°C
Temperature Coefficient V _{oc}	-0.27%/°C
Temperature Coefficient I _{sc}	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.