


QVA **BLACK**
MONOFACIAL MODULE

BSM415PM5-60SB
395~415W
SHINGLED PERC

BLUESUN SOLAR CO.,LTD

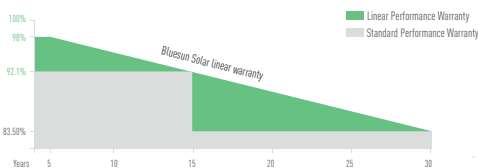
Bluesun, founded in 2004, as a superior photovoltaic manufacturer, is devoted to the R&D and the production of crystalline silicon solar cells and modules for 17 years. The company has its sales areas spread all over more than 100 countries and regions in the world, and the cumulative historical shipments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



Rooftop arrays on residential buildings



Shingled Technology

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



Beautiful Appearance

Deep black, 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

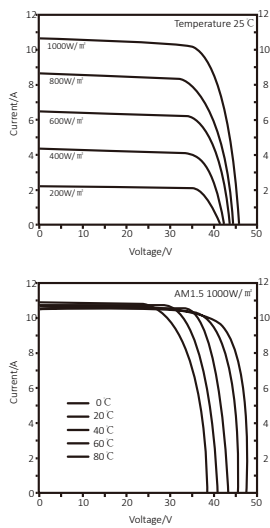
Full parallel arrangement brings high effective power generation hours

SPECIFICATIONS

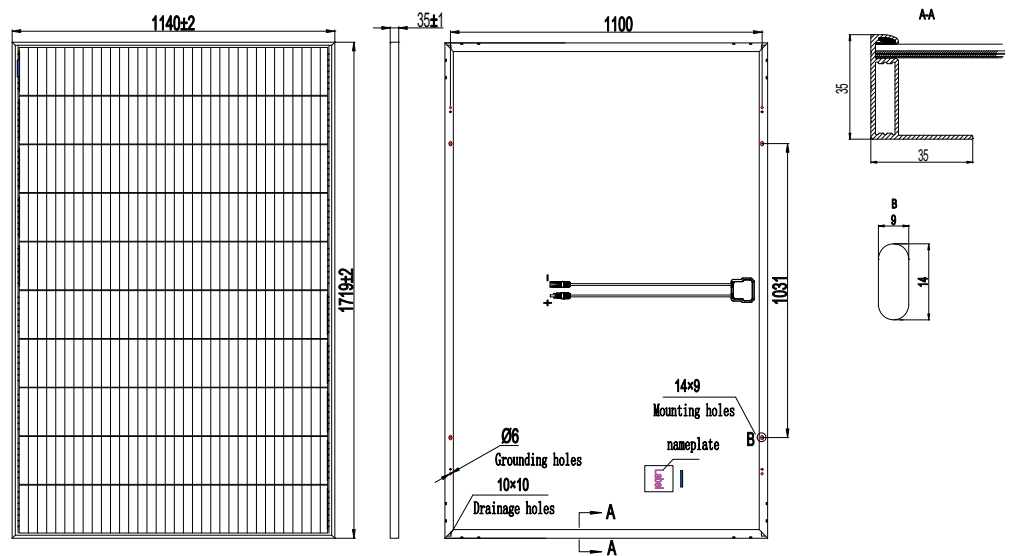
Module Type	BSM395PM5-60SB		BSM400PM5-60SB		BSM405PM5-60SB		BSM410PM5-60SB		BSM415PM5-60SB	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax/W)	395	297	400	301	405	305	410	309	415	312
Operating Voltage (Vmp/V)	38.5	36.7	38.6	36.8	38.7	36.9	38.8	37.0	38.9	37.1
Operating Current (Imp/A)	10.26	8.10	10.36	8.18	10.47	8.27	10.57	8.35	10.67	8.43
Open-Circuit Voltage (Voc/V)	46.3	44.1	46.4	44.2	46.5	44.3	46.6	44.4	46.7	44.5
Short-Circuit Current (Isc/A)	10.92	8.81	10.97	8.85	11.02	8.89	11.07	8.93	11.12	8.97
Module Efficiency η (%)	20.2		20.4		20.7		20.9		21.2	

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

I-V CURVE



ENGINEERING DRAWINGS



MECHANICAL SPECIFICATION

Cell Type	Mono-crystalline solar cell
Weight	21.0kg
Module Dimensions	1719*1140*35mm
Cable Length	1200mm
Cable Cross Section Size	TUV: 4mm ² (0.006inches ²)/UL: 12AWG
Front Glass	3.2mm (0.13inches) AR Coating Tempered Glass
No. of Bypass Diodes	3
Packing Configuration	31pcs/carton, 806pcs/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	-0.34%/°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.