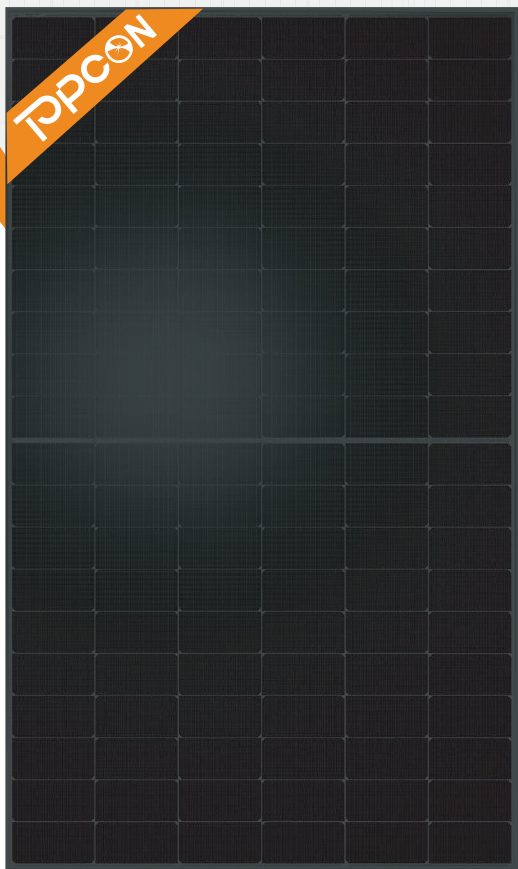




FULL BLACK¹²⁰
HEX⁷

BSM530M10-60HNH
510-530W

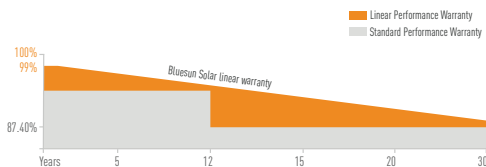
HALF CELL TOPCON
BIFACIAL

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

- 12** Enhanced Product Warranty on Materials and Workmanship.
- 30** Linear Power Performance Warranty*
- 0.4** Annual Degradation Over 30 years no more than 0.4%



*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 / TUV



THE IDEAL SOLUTION FOR:



Rooftop arrays on residential buildings



Ground-mounted solar power plants



High module conversion efficiency

MBB Half Cell Technology, Module efficiency up to 24.48%



Withstanding harsh environment

Reliable quality leads to a better sustainability even in harsh environment like desert, farm and coastline



PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control



Excellent weak light performance

More power output in weak light condition, such as cloudy, morning and sunset



Extended wind and snow load tests

Module certified to withstand extreme wind (2400 Pa) and snow loads (5400 Pa)

SPECIFICATIONS

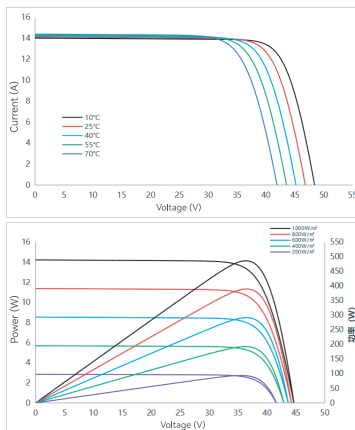
Module Type	BSM510M10-60HNH		BSM515M10-60HNH		BSM520M10-60HNH		BSM525M10-60HNH		BSM530M10-60HNH	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (P _{max} /W)	510	385	515	389	520	393	525	397	530	401
Operating Voltage (V _{mp} /V)	36.31	34.29	36.47	34.46	36.63	34.63	36.79	34.80	36.95	34.97
Operating Current (I _{mp} /A)	14.06	11.22	14.14	11.28	14.22	11.34	14.30	11.40	14.38	11.46
Open-Circuit Voltage (V _{oc} /V)	43.70	41.58	43.87	41.75	44.04	41.92	44.21	42.09	44.38	42.26
Short-Circuit Current (I _{sc} /A)	14.80	11.91	14.88	11.97	14.96	12.03	15.04	12.09	15.12	12.15
Module Efficiency η _m (%)	23.56		23.79		24.02		24.25		24.48	

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

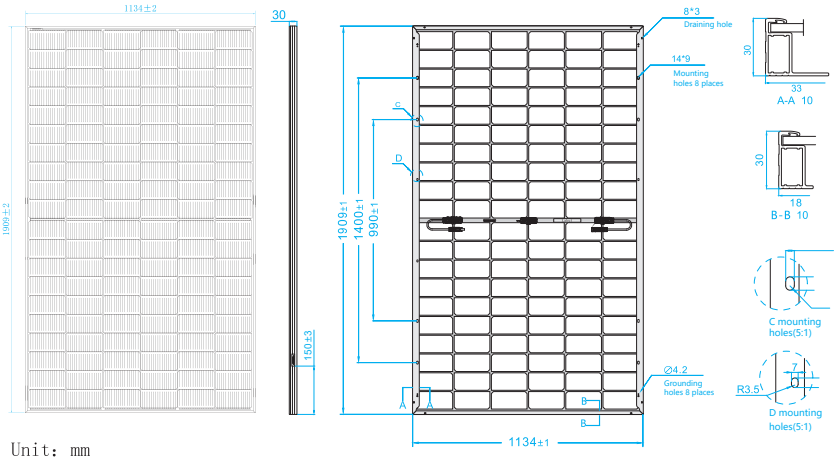
Electrical characteristics with different rear side power gain (refer to 510W front)

5%	Maximum Power (P _{max} /W)	536	541	546	551	557
	Module Efficiency (η _r %)	24.74	24.98	25.22	25.46	25.71
15%	Maximum Power (P _{max} /W)	561	567	572	578	583
	Module Efficiency (η _r %)	25.91	26.17	26.42	26.68	26.93
25%	Maximum Power (P _{max} /W)	587	592	598	604	610
	Module Efficiency (η _r %)	27.09	27.36	27.62	27.89	28.15

I-V CURVE



ENGINEERING DRAWINGS



Unit: mm

MECHANICAL SPECIFICATION

Cell Type	N-type Topcon
Cell Arrangement	120 (6*20)
Weight	25.5kg
Module Dimensions	1909x1134x30mm
Cable Length	+400mm, -200mm, length can be customized
Cable Cross Section Size	TUV: 4mm ² (0.006inches ²)/UL: 12AWG
Front Glass	2.0mm high transmittance, AR coated glass
Rear Glass	2.0mm semi-tempered glass
No. of Bypass Diodes	3
Packing Configuration	36pcs/carton, 864pcs/40hq
Frame	Anodized Aluminium Alloy
Junction Box	IP68

OPERATING CONDITIONS

Maximum System Voltage	1500V DC(IEC)
Operating Temperature	-40°C~ +85°C
Maximum 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*	80%±5%
*Under STC: Backside Output Ratio = P _{max} (rear) /P _{max} (front)	

TEMPERATURE COEFFICIENT

Temperature Coefficient P _{max}	-0.29%/°C
Temperature Coefficient V _{oc}	-0.26%/°C
Temperature Coefficient I _{sc}	+0.045%/°C
NMOT	45±2°C

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