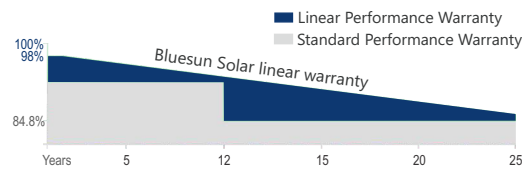


BLUESUN SOLAR CO. LTD.

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** Years Enhanced Product Warranty on Materials and Workmanship.
- 25** Years Linear Power Performance Warranty*
- 0.55%** Annual Degradation Over 25 years no more than 0.55%



*According to the applicable Bluesun Solar Limited Warranty Statement.

SPECIFICATIONS

Module Type	BSM455M-72HPH	
	STC	NMOT
Maximum Power (P _{max} /W)	455	339
Operating Voltage (V _{mp} /V)	41.1	38.4
Operating Current (I _{mp} /A)	11.08	8.84
Open-Circuit Voltage (V _{oc} /V)	48.8	46.4
Short-Circuit Current (I _{sc} /A)	11.61	9.37
Module Efficiency nm(%)	20.9	

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



High module conversion efficiency

MBB Half Cell Technology, Module efficiency up to 21.68%



Withstanding harsh environment

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



PID Resistance

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



Excellent weak light performance

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

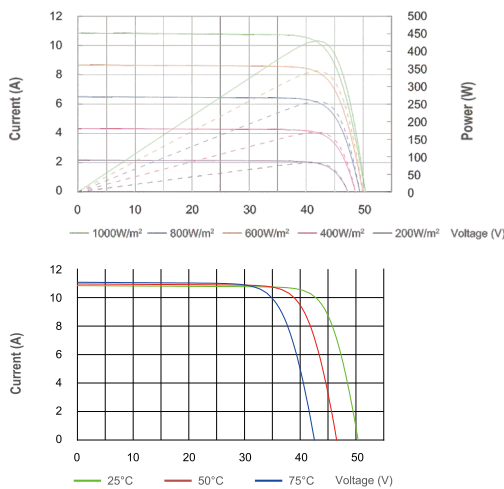


Extended wind and snow load tests

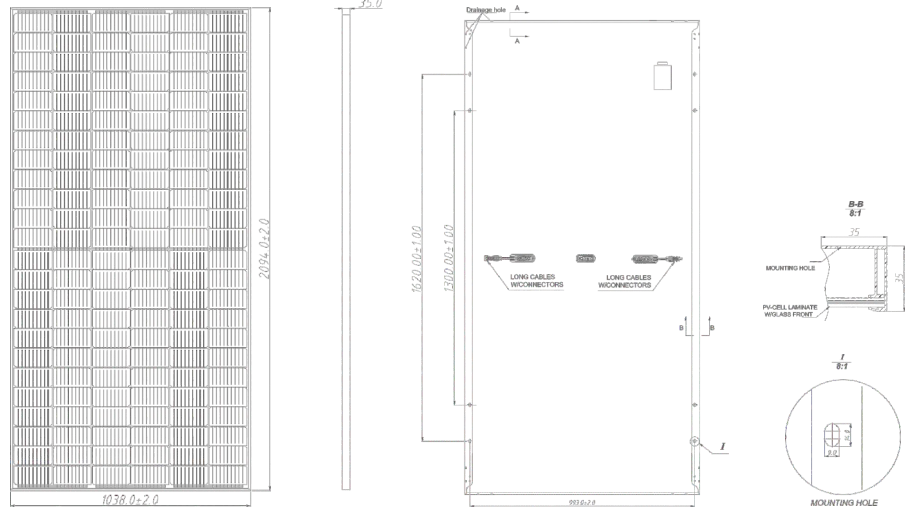
Module certified to withstand extreme wind (2400 Pa) and snow loads (5400 Pa)

I-V CURVE

BSM455M-72HPH



ENGINEERING DRAWINGS



THE IDEAL SOLUTION FOR:



Rooftop arrays on residential buildings



Ground-mounted solar power plants

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 / UL 61730 / INMETRO



MECHANICAL SPECIFICATION

Cell Type	Monocrystalline
Cell Dimensions	182*91mm
Cell Arrangement	144 (6*24)
Weight	25.5kg
Module Dimensions	2094*1038*35mm
Cable Length	Portrait 300mm Landscape 1200mm/Customized
Cable Cross Section Size	TUV: 4mm (0.006inches ²) UL: 12AWG
Front Glass	3.2mm (0.13inches) AR Coating Tempered Glass
No. of Bypass Diodes	3
Packing Configuration	31pcs/carton, 704pcs/40hq
Frame	Anodized Aluminium Alloy
Junction Box	IP68

OPERATING CONDITIONS

Maximum System Voltage	1000/1500V/DC(IEC)
Operating Temperature	-40°C ~ +85°C
Maximum Series Fuse	25A
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 P _{max}	-0.36%/°C
Temperature Coefficient V _{oc}	-0.26%/°C
Temperature Coefficient I _{sc}	+0.043%/°C
NMOT	43±2°C

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