SOLAR BLUESUN
Your Best PV Supplier

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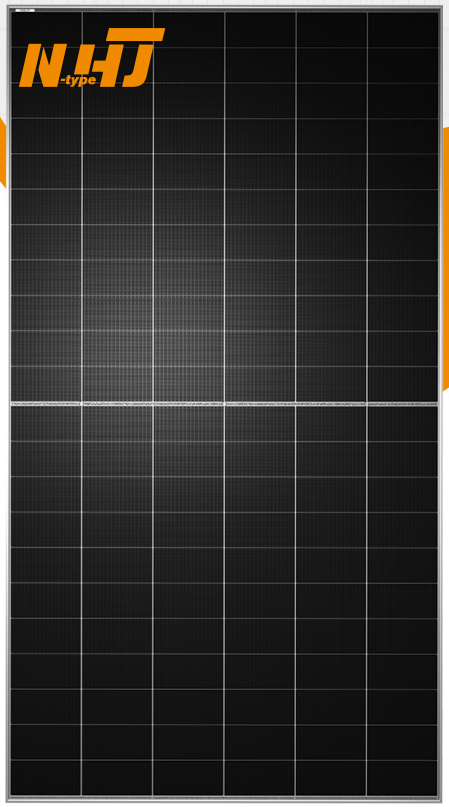


132 HEX9
BIFACIAL MODULE

BSM720G12-66HNH
695-720

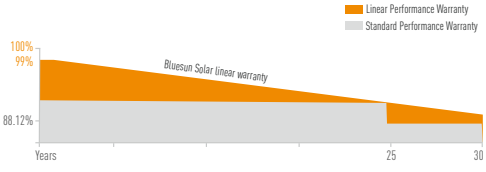
HALF CELL N-HJT
BIFACIAL

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

- 25 Years — Enhanced Product Warranty on Materials and Workmanship.
- 30 Years — Linear Power Performance Warranty*
- 0.375% Annual — Annual Degradation Over 30 years no more than 0.375%



*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 / TUV / CE

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 23.18%

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)

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*Release BSMXXG12-66HNH(695-720W)-2024-01-Rev01-EN

SPECIFICATIONS

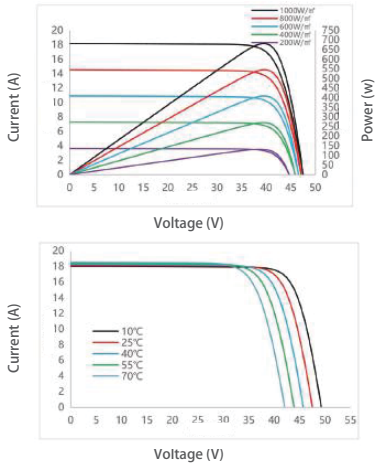
Module Type		BSM695G12-66HNH		BSM700G12-66HNH		BSM705G12-66HNH		BSM710G12-66HNH		BSM715G12-66HNH		BSM720G12-66HNH	
		STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power	(Pmax/W)	695	530	700	534	705	538	710	542	715	546	720	550
Operating Voltage	(Vmp/V)	40.30	37.60	40.50	37.80	40.70	38.00	40.90	38.20	41.10	38.40	41.30	38.60
Operating Current	(Imp/A)	17.25	14.10	17.29	14.13	17.33	14.16	17.37	14.19	17.41	14.22	17.45	14.25
Open-Circuit Voltage	(Voc/V)	48.00	45.50	48.20	45.70	48.40	45.90	48.60	46.10	48.80	46.30	49.00	46.50
Short-Circuit Current	(Isc/A)	18.28	14.76	18.32	14.80	18.36	14.84	18.4	14.88	18.44	14.92	18.48	14.96
Module Efficiency	ηm(%)	22.37		22.53		22.7		22.86		23.02		23.18	

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

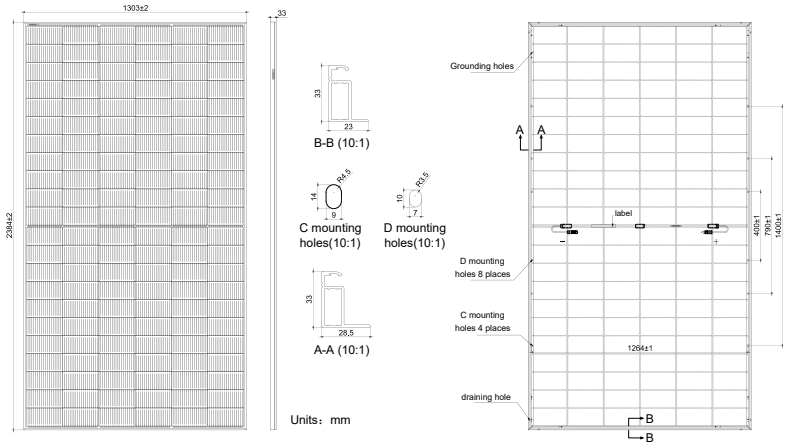
Electrical characteristics with different rear side power gain (refer to 695W front)

Power Gain		5%	10%	15%	20%	25%
Maximum Power	(Pmax/W)	730	765	799	834	869
Open-Circuit Voltage	(Voc/V)	47.90	47.90	47.90	48.00	48.00
Operating Voltage	(Vmp/V)	40.30	40.30	40.30	40.40	40.40
Short-Circuit Current	(Isc/A)	18.84	19.56	20.25	20.98	21.69
Operating Current	(Imp/A)	18.12	18.99	19.83	20.65	21.51

I-V CURVE



ENGINEERING DRAWINGS



MECHANICAL SPECIFICATION

Cell Type	N type Heterojunction Cell
Cell Arrangement	132 (6*22)
Weight	37.5kg
Module Dimensions	2384*1303*33mm
Cable Length	+400mm, -200mm or ± 1200mm, length can be customized
Cable Cross Section Size	TUV: 4mm²(0.006inches²)/UL: 12AWG
Front Glass	2.0mm high transmittance, AR semi-tempered glass
Rear Glass	2.0mm high transmittance, semi-tempered glass
No. of Bypass Diodes	3
Packing Configuration	33pcs/carton, 594pcs/40hq
Frame	Anodized Aluminium Alloy
Junction Box	IP68

OPERATING CONDITIONS

Maximum System Voltage	1500V DC
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	MC4/MC4-EVO2
Backside Output Ratio* *Under STC: Backside Output Ratio = Pmax(rear) /Pmax(front)	80%±5%

TEMPERATURE COEFFICIENT

Temperature Coefficient Pmax	-0.26%/°C
Temperature Coefficient Voc	-0.24%/°C
Temperature Coefficient Isc	+0.04%/°C
NMOT	44±2°C

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

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