

**QUA** **ULTRA**  
BIFACIAL MODULE

**BSM720G12-66HNH**

**700~725W**  
**N-type SHINGLED**

BIFACIAL

210 cell

N-Type

HJT

## BLUESUN SOLAR CO.,LTD

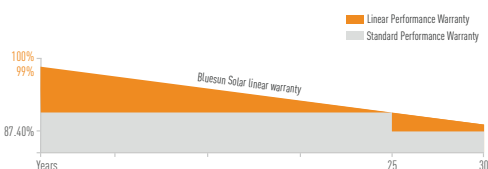
Bluesun, founded in 2004, as a superior photovoltaic manufacturer, is devoted to the R&D and the production of crystalline silicon solar cells and modules for 17 years. The company has its sales areas spread all over more than 100 countries and regions in the world, and the cumulative historical shipments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

## PERFORMANCE WARRANTY

**25** 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:



Ground-mounted solar power plants



### Shingled Technology

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



### Lower LID

N-type with lower LID



### 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

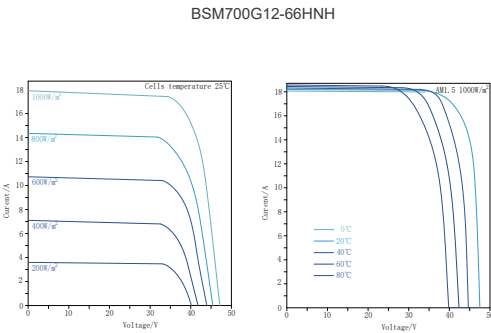
Module Type	BSM700G12-66HNNH		BSM705G12-66HNNH		BSM710G12-66HNNH		BSM715G12-66HNNH		BSM720G12-66HNNH		BSM725G12-66HNNH	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (P <sub>max</sub> /W)	700	528	705	532	710	536	715	540	720	544	725	548
Operating Voltage (V <sub>mp</sub> /V)	39.70	37.90	39.80	38.00	39.90	38.10	40.00	38.20	40.10	38.30	40.20	38.40
Operating Current (I <sub>mp</sub> /A)	17.63	13.93	17.71	14.00	17.79	14.07	17.88	14.14	17.96	14.20	18.03	14.27
Open-Circuit Voltage (V <sub>oc</sub> /V)	47.70	45.50	47.86	45.60	47.90	45.70	48.00	45.80	48.10	45.90	48.20	46.00
Short-Circuit Current (I <sub>sc</sub> /A)	18.77	15.17	18.86	15.25	18.95	15.33	19.04	15.41	19.13	15.49	19.22	15.57
Module Efficiency η <sub>m</sub> (%)	22.53		22.70		22.86		23.02		23.18		23.34	

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5 NMOT: Irradiance at 800W/m<sup>2</sup>, Ambient Temperature 20°C, Air Mass AM1.5, Wind Speed 1m/s

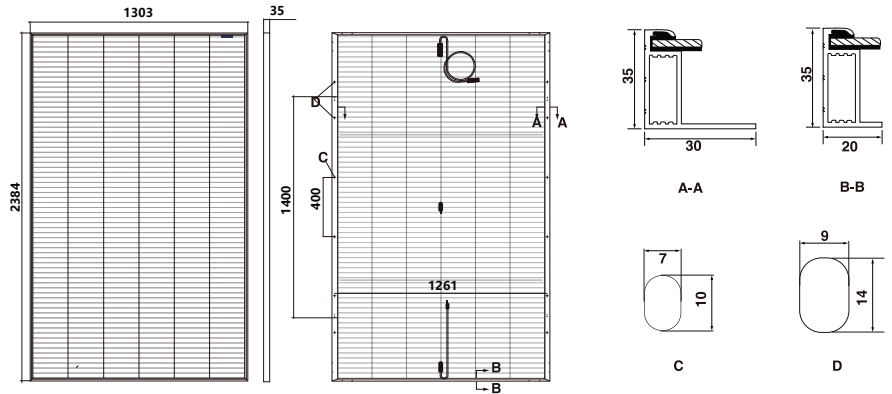
## Electrical characteristics with different rear side power gain (refer to 700W front)

P <sub>max</sub> gain	P <sub>max</sub> /W	V <sub>mp</sub> /V	I <sub>mp</sub> /A	V <sub>oc</sub> /V	I <sub>sc</sub> /A
5%	735	39.7	18.51	47.7	19.69
10%	770	39.7	19.40	47.7	20.63
15%	805	39.7	20.28	47.7	21.57
20%	840	39.7	21.16	47.8	22.50
25%	875	39.7	22.04	47.8	23.44

## I-V CURVE



## ENGINEERING DRAWINGS



## MECHANICAL SPECIFICATION

Cell Type	N-type Monocrystalline
Cell Dimensions	210*210mm
Weight	39.0kg
Module Dimensions	2384*1303*35mm
Cable Length	+600, -1200
Cable Cross Section Size	TUV: 4mm <sup>2</sup> (0.006inches <sup>2</sup> )/UL: 12AWG
Front Glass	2.0 mm (0.08 inches) AR Coating Tempered Glass
Back Glass	2.0mm (0.08 inches) Glazed Semi-tempered Glass
No. of Bypass Diodes	3
Packing Configuration	31pcs/carton, 558pcs/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
Safety Class	II
Connector	T01/LJQ-3-CSY/MC4/MC4-EVO2
Backside Output Ratio*	70%±5%

\*Under STC: Backside Output Ratio= P<sub>max(rear)</sub> / P<sub>max(front)</sub>

## TEMPERATURE COEFFICIENT

Temperature Coefficient P <sub>max</sub>	-0.35%/°C
Temperature Coefficient V <sub>oc</sub>	-0.26%/°C
Temperature Coefficient I <sub>sc</sub>	+0.048%/°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.