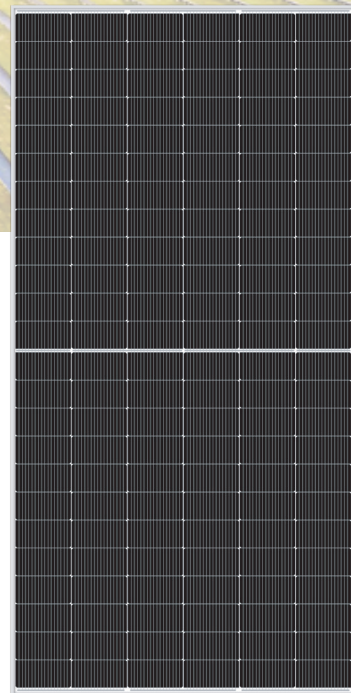




HEX₇ BSM610M10-72HNH

182

Bi-facial N-type 590w-610w
Efficiency up to 23.6%

Made In Indonesia

 **Los Angeles/Long Beach/CA Stock**

 **Best Commerical Selling**

 **Same Day Shipping**

- Dimensions: 2278*1134*30mm
- Weight: 31.5kg
- Max. System Voltage: 1500 V (IEC/UL)

PERFORMANCE WARRANTY

15
Years

Enhanced Product Warranty on Materials and Workmanship*

30
Years

Linear Power Performance Warranty*
*According to the applicable Bluesun Solar Limited Warranty Statement.

GREAT PERFORMANCE AND RELIABILITY

- ★ Bi-facial Topcon Half Cut Technology
- ★ Better Energy Yield
- ★ Power Degradation -0.40%/30 Years Linear Warranty
- ★ TUV SUD Anti PID Certificated
- ★ IP68 Junction Box/High Water Proof Level
- ★ Reduced Hot Spot Risk

MANAGEMENT SYSTEM CERTIFICATES

- ISO 9001: 2015 Quality Management System
- ISO 14001: 2015 Environment Management System
- ISO 45001: 2018 Occupational Health and Safety Management Systems

PRODUCT CERTIFICATES

- IEC 61215 / IEC 61730
- UL 61215 / UL61730



BLUESUN SOLAR CO.,LTD

Add: Innovations Tower, No.679 West WangJiang Road, Hi-tech Zone Hefei 230031 China

Tel: +86 (158) 5821 3997
E-mail: info@bluesunpv.com

Fax: +86 (551) 6565 2651
Http: www.bluesunpv.com

US Warehouse Location: Los Angeles/Long Beach/CA Stock

*Release BSM610M10-72HNH(590-610W)_V.25_01

ELECTRICAL PARAMETERS

Performance at STC (Power Tolerance 0 ~ +3%)

Maximum Power (Pmax/W)	590	595	600	605	610
Open-Circuit Voltage (Voc/V)	52.35	52.54	52.73	52.92	53.11
Short-Circuit Current (Isc/A)	13.90	13.95	14.00	14.05	14.10
Operating Voltage (Vmpp/V)	44.40	44.58	44.76	44.94	45.12
Operating Current (Impp/A)	13.29	13.35	13.41	13.47	13.53
Module Efficiency η m(%)	22.8	23.0	23.2	23.4	23.6

Performance at NMOT

Maximum Power (Pmax/W)	452	456	460	464	468
Open-Circuit Voltage (Voc/V)	50.12	50.30	50.48	50.66	50.84
Short-Circuit Current (Isc/A)	11.20	11.24	11.28	11.32	11.36
Operating Voltage (Vmpp/V)	42.51	42.68	42.85	43.02	43.19
Operating Current (Impp/A)	10.63	10.68	10.74	10.79	10.84

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

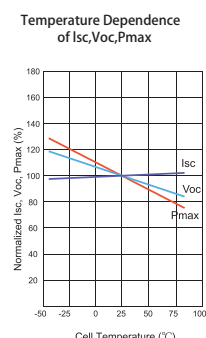
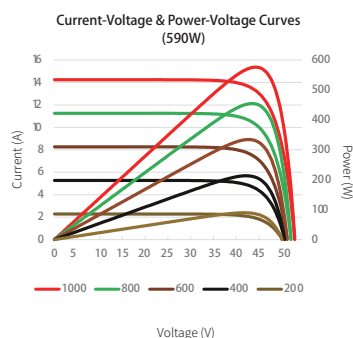
ELECTRICAL CHARACTERISTICS WITH DIFFERENT POWER BIN (REFERENCE TO 13.5% IRRADIANCE RATIO)

Peak power -Pmp(W)	654	657	665	671	676
Open circuit voltage - Voc(V)	52.35	52.54	52.73	52.92	53.11
Short circuit current-Isc(A)	15.40	15.46	15.51	15.57	15.62
MPP voltage - Vmp(V)	44.40	44.58	44.76	44.94	45.12
MPP current- Imp(A)	14.72	14.79	14.86	14.92	14.99
Irradiance ratio(rear/front)	13.5%				

MECHANICAL SPECIFICATION

Cell Type	N-type Topcon
Cell Dimensions	182*182mm
Cell Arrangement	144 (6*24)
Weight	31.5kg
Module Dimensions	2278*1134*30mm
Cable Length (Portrait)	300 mm/1200 mm/Customized length
Cable Cross Section Size	TUV: 4mm ² (0.006inches ²)/UL: 12AWG
Front Glass	2.0mm, Anti-Reflection Coating
Back Glass	2.0mm, Heat Strengthened Glass
No. of Bypass Diodes	3
Packing Configuration	720pcs/40hq
Packing Configuration (for USA)	36pcs/carton, 576pcs/40hq
Frame	Anodized Aluminium Alloy
Junction Box	IP68

I-V CURVE



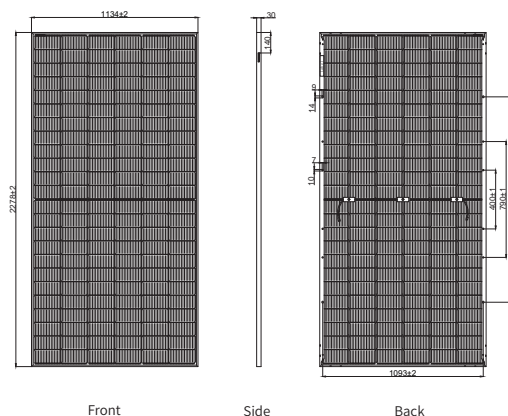
OPERATING CONDITIONS

MaximumSystem Voltage	1500V/DC(IEC)
Operating Temperature	-40°C ~ +85°C
MaximumSeries Fuse	30
Static Loading	Snow Loading: 5400Pa/ Wind Loading: 2400Pa
Safety Class	II
Connector	MC4-EVO2
Backside Output Ratio*	80%±10%
*Under STC: Backside Output Ratio = $P_{\max}(\text{rear}) / P_{\max}(\text{front})$	

TEMPERATURE COEFFICIENT

Temperature Coefficient Pmax	-0.29%/°C
Temperature Coefficient Voc	-0.28%/°C
Temperature Coefficient Isc	+0.040%/°C
NMOT	45±2°C

TECHNICAL DRAWINGS



* The unmarked tolerance is ±1 mm
Length shown in mm

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