BLUESUN SOLAR

HPBC 2.0

645-665W

BSM660M10-72HJD
Black Frame

15 Years — Enhanced Product Warranty on Materials and Workmanship.

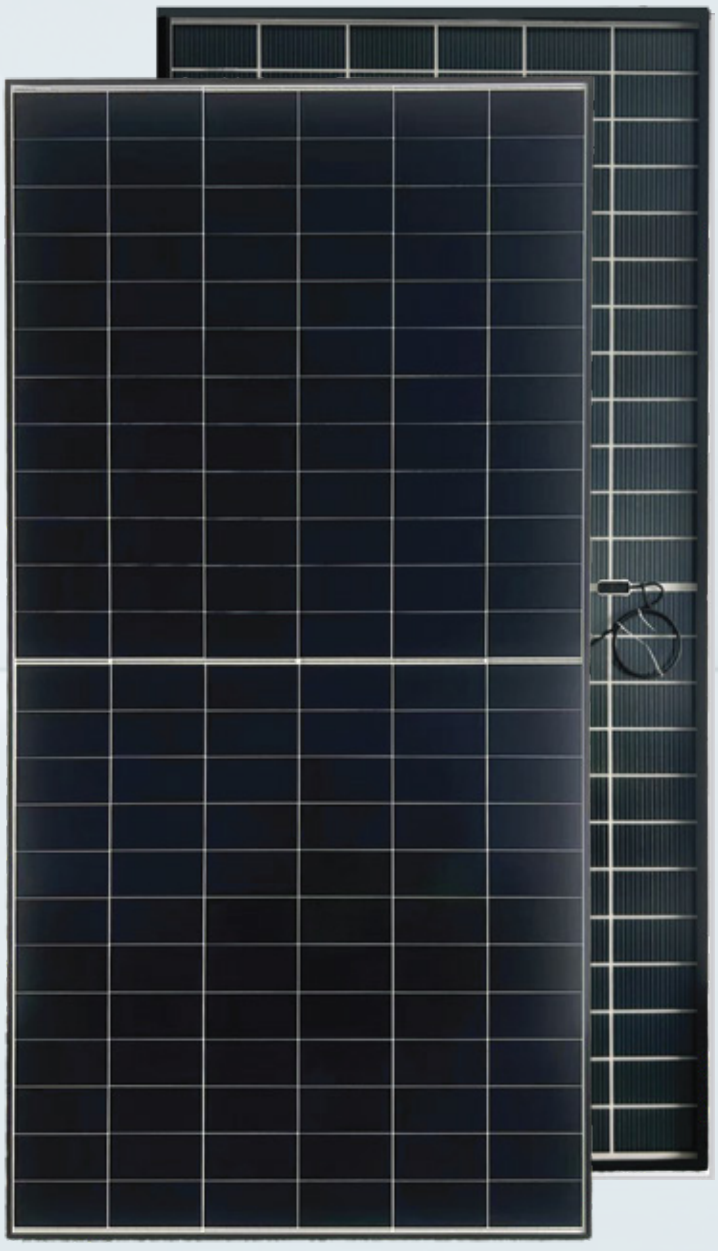
30 Years — Linear Power Performance Warranty*

0.35 % — Annual Degradation Over 30 years no more than 0.35%

Ultimate Security

More Power Generation

High Aesthetic



The Features:

- High efficiency module : 24.6%
- No ribbon on the front enhance oblique light absorption
- Back contact welding structure lower cells stress
- Low irradiation environment with high power generation performance

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

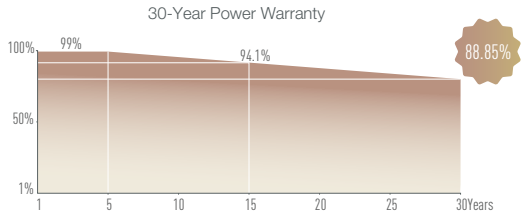
TÜV SÜD

CE

HPBC 2.0

SOLAR BLUESUN

Additional Value



*According to the applicable Bluesun Solar Limited Warranty Statement.

The Features:

- Suitable for Distribution Market
- Peak efficiency with top power generation performance
- More suitable for industrial and commercial cement roofs and high temperature scenarios
- TaiRay wafer & BC technology enhances high product reliability

Specifications

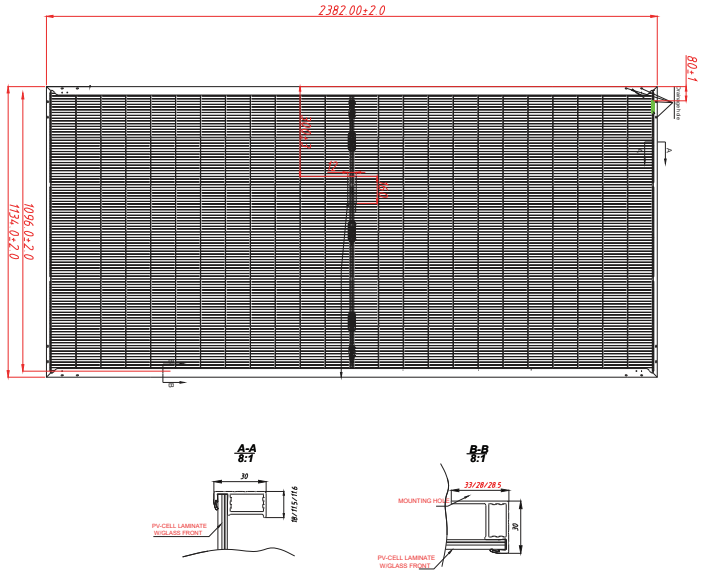
Module Type	BSM645M10-72HJD		BSM650M10-72HJD		BSM655M10-72HJD		BSM660M10-72HJD		BSM665M10-72HJD	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax/W)	645	491	650	495	655	499	660	502	665	506
Operating Voltage (Vmp/V)	44.77	42.55	44.87	42.64	44.97	42.74	45.07	42.83	45.17	42.93
Operating Current (Imp/A)	14.41	11.55	14.49	11.61	14.57	11.68	14.65	11.75	14.72	11.80
Open-Circuit Voltage (Voc/V)	54.12	51.43	54.22	51.53	54.32	51.62	54.42	51.72	54.52	51.81
Short-Circuit Current (Isc/A)	15.06	12.10	15.14	12.16	15.22	12.22	15.30	12.29	15.35	12.33
Module Effciency ηm(%)	23.9		24.1		24.2		24.4		24.6	

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 rear side power gain (refer to 665W front)

Power Gain	5%	10%	15%	20%	25%
Maximum Power (Pmax/W)	688	721	755	788	821
Open-Circuit Voltage (Voc/V)	54.32	54.32	54.32	54.42	54.42
Operating Voltage (Vmp/V)	44.97	44.97	45.07	45.07	45.07
Short-Circuit Current (Isc/A)	15.98	16.74	17.50	18.26	19.03
Operating Current (Imp/A)	15.30	16.03	16.76	17.48	18.21

Engineering Drawings



Mechanical Specification

Cell Type	HPBC 2.0
Cell Arrangement	144 (6*24)
Weight	32.3kg±3%
Module Dimensions	2382*1134*30mm
Cable Length	±1200mm/customizable
Cable Cross Section Size	TUV: 4mm2 (0.006inches2)/UL: 12AWG
Front Glass	2.0mm coated semi tempered glass
Back Glass	2.0mm semi-tempered glass
No. of Bypass Diodes	3
Packing Configuration	36pcs/carton, 720pcs/40hq
Frame	Black polyurethane Frame
Junction Box	IP68

Temperature Coefficient

Temperature Coefficient Pmax	-0.260%/°C
Temperature Coefficient Voc	-0.200%/°C
Temperature Coefficient Isc	+0.050%/°C
NMOT	45±2°C

Operating Conditions

Maximum System Voltage	DC1500V(IEC)
Operating Temperature	-40°C~ +85°C
Maximum Series Fuse	30A
Static Loading	Snow Loading: 5400Pa/ Wind Loading: 2400Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s
Safety Class	II
Fire Rating	Class C
Backside Output Ratio* *Under STC: Backside Output Ratio = Pmax(rear) /Pmax(front)	70%±5%

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