

144 BIFACIAL MODULE

BSM600M10-72HNH 580~600W

HALF CELL TOPCON BIFACIAL

High module conversion efficiency

Withstanding harsh environment

MBB Half Cell Technology, Module efficiency up

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

BLUESUN SOLAR CO., LTD

PERFORMANCE WARRANTY

Linear Power Performance Warranty*

30

a 4'

87.409

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.

12 Enhanced Product Warranty on Materials and Workmanship.

Annual Degradation Over 30 years no more than 0.4%

un Solar linear warrant

*According to the applicable Bluesun Solar Limited Warranty Statement.

Linear Performance Warranty

Standard Performance War

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



THE IDEAL SOLUTION FOR:

Rooftop arrays on residential buildings Ground-mounted solar power plants

PID Resistance

coastline

to 23.2%

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



PID

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)



BLUESUN SOLAR CO., LTD

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HEX₇ **SPECIFICATIONS**

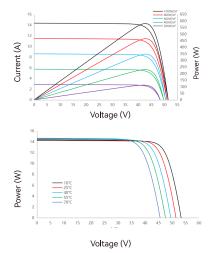
Module Type		BSM580M10-72HNH		BSM585M10-72HNH		BSM590M10-72HNH		BSM595M10-72HNH		BSM600M10-72HNH	
		STC	NMOT								
Maximum Power	(Pmax/W)	580	436.2	585	440	590	444	595	448	600	452
Operating Voltage	(Vmp/V)	43.28	40.05	43.48	40.10	43.68	40.15	43.88	40.2	44.08	40.25
Operating Current	(Imp/A)	13.41	10.86	13.47	10.94	13.53	11.02	13.59	11.10	13.65	11.18
Open-Circuit Voltage	(Voc/V)	51.64	49.05	51.84	49.24	52.04	49.43	52.24	49.62	52.44	49.81
Short-Circuit Current	(lsc/A)	14.29	11.60	14.33	11.64	14.37	11.68	14.41	11.72	14.45	11.76
Module Efficiency	ηm(%)	22	.5	22	.7	22	.8	23	3.0	23	3.2

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 580W front)

Power Gain	5%	10%	15%	20%	25%
Maximum Power (Pmax/W)	609	638	667	696	725
Open-Circuit Voltage (Voc/V)	51.4	51.4	51.4	51.5	51.5
Operating Voltage (Vmp/V)	42.97	42.97	42.97	42.98	42.98
Short-Circuit Current (Isc/A)	14.8	15.36	15.91	16.48	17.04
Operating Current (Imp/A)	14.18	14.85	15.53	16.2	16.87

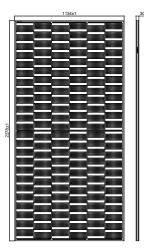
I-V CURVE

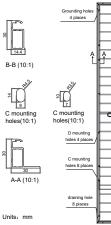


MECHANICAL SPECIFICATION

Cell Type	N-type Topcon
Cell Arrangemen	144 (6*24)
Weight	32.7kg
Module Dimensi	ons 2278*1134*30mm
Cable Length	+400mm, -200mm or \pm 1200mm, length can be customized
Cable Cross Sec	tion Size TUV: 4mm²(0.006inches²)/UL: 12AWG
Front Glass	2.0mm high transmittance, AR coated tempered Glass
Rear Glass	2.0mm high transmittance, coated tempered Glass
No. of Bypass Di	odes 3
Packing Configu	ration 36pcs/carton, 720pcs/40hq
Frame	Anodized Aluminium Alloy
Junction Box	IP68

ENGINEERING DRAWINGS





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	Ш
Resistance	≥100MΩ
Connector	T01/LJQ-3-CSY/MC4/MC4-EVO2
Backside Output Ratio* *Under STC: Backside Output	Ratio = Pmax(rear) /Pmax(front) 80%±5%

TEMPERATURE COEFFICIENT

Temperature Coefficient Pmax	-0.30%/°C
Temperature Coefficient Voc	-0.25%/°C
Temperature Coefficient Isc	+0.046%/°C
NMOT	45±2°C

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



