

BSM550M10-72HBD

Bifacial Dual Glass 530W-550W LEADING 5%-25% MORE YIELD EFFICIENCY UP TO 21.2%

Made In Thailand

- Long Beach Stock
- US Local Service
- **Same Day Shipping**
- Dimensions:2285*1134*35mm
- · Weight:32.2kg
- Max. System Voltage: 1500 V/DC(IEC)

GREAT PERFORMANCE AND RELIABILITY

- ★ Bi-facial Perc Half Cut Technology
- * Better Energy Yield
- ★ Power Degradation -0.45%/30 Years Linear Warranty
- ★ TUV SUD Anti PID Certificated
- ★ IP68 Junction Box/High Water Proof Level
- Reduced Hot Spot Risk



PERFORMANCE WARRANTY

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Enhanced Product Warranty on Materials and Workmanship



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

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 / IEC 61701 / IEC TS 62804
- UL 1703 / UL61730









ELECTRICAL PARAMETERS Performance at STC (Power Tolerance 0 ~ +3%) Maximum Power (Pmax/W) 530 535 540 545 550 Operating Voltage (Vmpp/V) 41.32 41.48 41.64 41.80 41.96 Operating Current (Impp/A) 12.83 12.90 12.97 13.04 13.11 Open-Circuit Voltage (Voc/V) 49.32 49.46 49.60 49.76 49.92 Short-Circuit Current (Isc/A) 13.72 13.79 13.86 13.93 14.00 Module Efficiency ηm(%) 20.5 20.6 20.8 21.0 21.2 Performance at NMOT Maximum Power (Pmax/W) 395 406 410 398 402 Operating Voltage (Vmpp/V) 38.6 38.7 38.8 39.0 39.1 Operating Current (Impp/A) 10.24 10.30 10.36 10.41 10.47 Open-Circuit Voltage (Voc/V) 46.4 46.5 46.7 46.8 47.0 Short-Circuit Current (Isc/A) 11.06 11.12 11.17 11.23 11.28 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 530W front)

Pmax gain	Pmax/W	Vmpp/V	Impp/A	Voc/V	Isc/A
5%	557	41.32	13.47	49.32	14.41
10%	583	41.32	14.11	49.32	15.09
15%	610	41.32	14.75	49.32	15.78
20%	636	41.32	15.40	49.32	16.46
25%	663	41.32	16.04	49.32	17.15

MECHANICAL SPECIFICATION

Cell Ty	/ре		Monocrystalline
Cell Di	mensions		182*182mm
Cell Ar	rangement		144 (6*24)
Weigh	t		32.2kg
Module	e Dimensions		2285*1134*35mm
Cable	Length	Portrait 300mm/La	andscape 1200mm/Customized
Cable	Cross Section Size	TUV: 4n	nm² (0.006inches²)/UL: 12AWG
Front (Glass	2.0mm (0.08 inches) AR	Coating Semi-tempered Glass
Back 0	Blass	2.0mm (0.08 inches) Glazed Semi-tempered Glass
No. of	Bypass Diodes		3
Packin	g Configuration (1)		31pcs/carton, 620pcs/40hq
Packin	g Configuration (for	USA)	31pcs/carton, 558pcs/40hq
Frame			Anodized Aluminium Alloy
Junctio	on Box		IP68

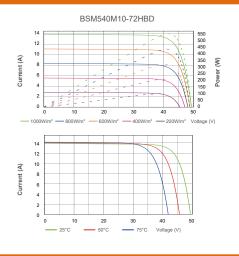
OPERATING CONDITIONS

Maximun System Voltage	1500V/DC(IEC)
Operating Temperature	-40°C ~ +85°C
Maximun Series Fuse	30A
Static Loading	Snow Loading: 5400Pa/ Wind Loading: 2400Pa
Conductivity at Ground	≤0.1Ω
Safety Class	II
Resistance	≥100MΩ
Connector	T01/LJQ-3-CSY/MC4/MC4-EVO2
Backside Output Ratio* *Under STC: Backside Output Ratio =	Pmax(rear) /Pmax(front) 70%±5%

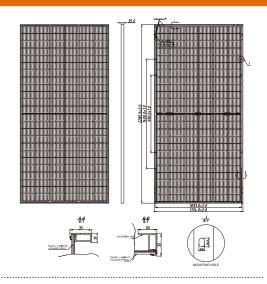
TEMPERATURE COEFFICIENT

Temperature Coefficient Pmax	-0.35%/°C
Temperature Coefficient Voc	-0.26%/°C
Temperature Coefficient Isc	+0.048%/°C
NMOT	43±2°C

I-V CURVE



TECHNICAL DRAWINGS



BLUESUN SOLAR CO.,LTD