



BSM460M-72HBD



Bi-facial mono perc 440 w- 460 w Leading 5%-25% more yield / Efficiency up to 21.2%

Made In Thailand

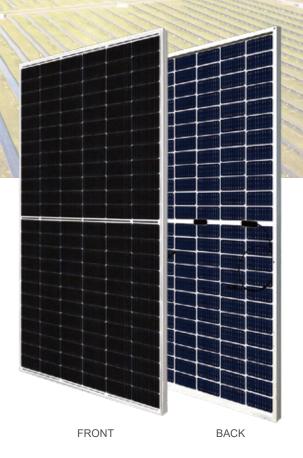


Same Day Shipping

- Dimensions:2094*1038*30mm
- · Weight:28kg
- Max. System Voltage: 1500 V (IEC/UL)

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

15

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 / UL 61730









US Solar Supplier

Add: 552 East, Suite 200, Louisville, KY 40205

Tel: 502-956-0427

Web: www.ussolarsupplier.com



ELECTRICAL PAR	AMETERS						
Performance at STO	C (Power Tolerance 0 -	+3%)					
Maximum Power (Pmax/W)			440	445	450	455	460
Operating Voltage (Vmpp/V)			41.6	41.8	42.0	42.2	42.4
Operating Current (Impp/A)			10.58	10.65	10.72	10.79	10.86
Open-Circuit Voltage (Voc/V)			50.0	50.2	50.4	50.6	50.8
Short-Circuit Current (Isc/A)			11.22	11.29	11.36	11.43	11.50
Module Efficiency ηm(%)			20.2	20.5	20.7	20.9	21.2
Performance at NM	ОТ						
Maximum Power (Pmax/	W)		327	330	334	337	341
Operating Voltage (Vmpp/V)			38.9	39.1	39.3	39.4	39.6
Operating Current (Impp/A)			8.41	8.47	8.52	8.57	8.62
Open-Circuit Voltage (Voc/V)			46.8	46.9	47.1	47.3	47.5
Short-Circuit Current (Isc	:/A)		9.04	9.10	9.16	9.21	9.27
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 characteri	stics with different rear	side power gain	(refer to 44	OW front)			
Pmax gain	Pmax/W	Vmpp/V	I	mpp/A	Voc/\	V	Isc/A
5%	462	41.6		11.11	50.0)	11.78
10%	484	41.6		11.64	50.0)	12.34
15%	506	41.6		12.17	50.0)	12.90
20%	528	41.6		12.70	50.2	2	13.46
25%	550	41.6		13.23	50.2	2	14.03

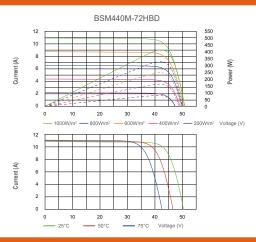
IP68

MECHANICAL SPECIFICATION						
Cell Type	Monocrystalline					
Cell Dimensions	166*166mm					
Cell Arrangement	144 (6*24)					
Weight	28kg (61.73lbs)					
Module Dimensions	2094*1038*30mm (82.44*40.87*1.18inches)					
Cable Length (Portrait)	Portrait 300mm/Landscape 1200mm/Customized					
Cable Cross Section Size	TUV: 4mm² (0.006inches²)/UL: 12AWG					
Front Glass	2.0mm (0.08 inches) AR Coating Semi-tempered Glass					
Back Glass	2.0mm (0.08 inches) Glazed Semi-tempered Glass					
No. of Bypass Diodes	3/6					
Packing Configuration (1)	35pcs/carton, 770pcs/40hq					
Packing Configuration (for	USA) 36pcs/carton, 648pcs/40hq					
Frame	Anodized Aluminium Alloy					

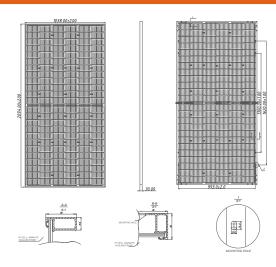
OPERATING CONDITIONS Maximun System Voltage 1500V/DC(IEC) -40°C ~ +85°C Operating Temperature Maximun Series Fuse Snow Loading: 5400Pa/ Wind Loading: 2400Pa Static Loading Conductivity at Ground Safety Class Ш Resistance ≥100MΩ T01/LJQ-3-CSY/MC4/MC4-EVO2 Connector Backside Output Ratio* *Under STC: Backside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

TEMPERATURE COEFFICIENT	
Temperature Coefficient Pmax	-0.36%/°C
Temperature Coefficient Voc	-0.26%/°C
Temperature Coefficient Isc	+0.043%/°C
NMOT	43±2°C

I-V CURVE



TECHNICAL DRAWINGS



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Junction Box

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