

# HEX<sub>4</sub> BSM460M-72HBD



Bi-facial mono perc 440 w- 460 w Efficiency up to 21.2%

# **Made In Thailand**

- 📤 Long Beach, CA Stock
- **Part Commerical Selling (16W+Shipped)**
- 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



**FRONT** 

BACK

#### PERFORMANCE WARRANTY

**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









ELECTRICAL PARAMETERS						
Performance at STC (Power Tolerance 0 ~ +	3%)					
Maximum Power (Pmax/W)	440	445		455	460	
Operating Voltage (Vmpp/V)	41.6	41.8	42.0	42.2	42.4	
Operating Current (Impp/A)	10.58	10.65		10.79	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		11.43	11.50	
Module Efficiency ηm(%)	20.2	20.5	20.7	20.9	21.2	
Performance at NMOT						
Maximum Power (Pmax/W)	327	330		337	341	
Operating Voltage (Vmpp/V)	38.9	39.1	39.3	39.4	39.6	
Operating Current (Impp/A)	8.41	8.47		8.57	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		9.21	9.27	
STC: Irradiance 1000Wim <sup>2</sup> , Cell Temperature 25°C, Ar Mass AM1.5	NMOT: Irradiance at 800W/m <sup>2</sup> . Ambient Tor	mperatue 20°C, Ai	Mass AM1.5, Wind	Speed 1m/s		

Electrical characteristics with	different rear side power	gain (refer to 440W front)
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PERSONAL LINEAR COLLEGE PROPERTY.		p (-	tor to trotte money		
Pmax gain	Pmax/W	Vmpp/V	Impp/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	13.46
25%	550	41.6	13.23	50.2	14.03

### **MECHANICAL SPECIFICATION**

Monocrystalline	Cell Type
166*166mm	Cell Dimensions
144 (6*24)	Cell Arrangement
28kg (61.73lbs)	Weight
2094*1038*30mm (82.44*40.87*1.18inches)	Module Dimensions
Portrait 300mm/Landscape 1200mm/Customized	Cable Length (Portrait)
TUV: 4mm² (0.008inches²)/UL: 12AWG	Cable Cross Section Size
2.0mm (0.08 inches) AR Coating Semi-tempered Glass	Front Glass 2.
2.0mm (0.08 inches) Glazed Semi-tempered Glass	Back Glass
3/6	No. of Bypass Diodes
35pcs/carton, 770pcs/40hq	Packing Configuration (1)
USA) 36pcs/carton, 648pcs/40hq	Packing Configuration (for US
Anodized Aluminium Alloy	Frame
IP68	Junction Box

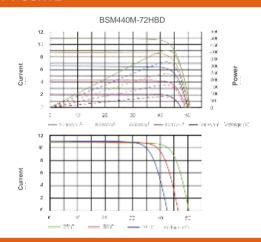
### **OPERATING CONDITIONS**

Maximun System Voltage	1500V/DC(IEC)
Operating Temperature	-40°C ~ +85°C
Maximun Series Fuse	25A
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	-0.36%/°C
Temperature Coefficient Voc	-0.26%/°C
Temperature Coefficient Isc	+0.043%/°C
NMOT	43+2°C

### I-V CURVE



# **TECHNICAL DRAWINGS**

