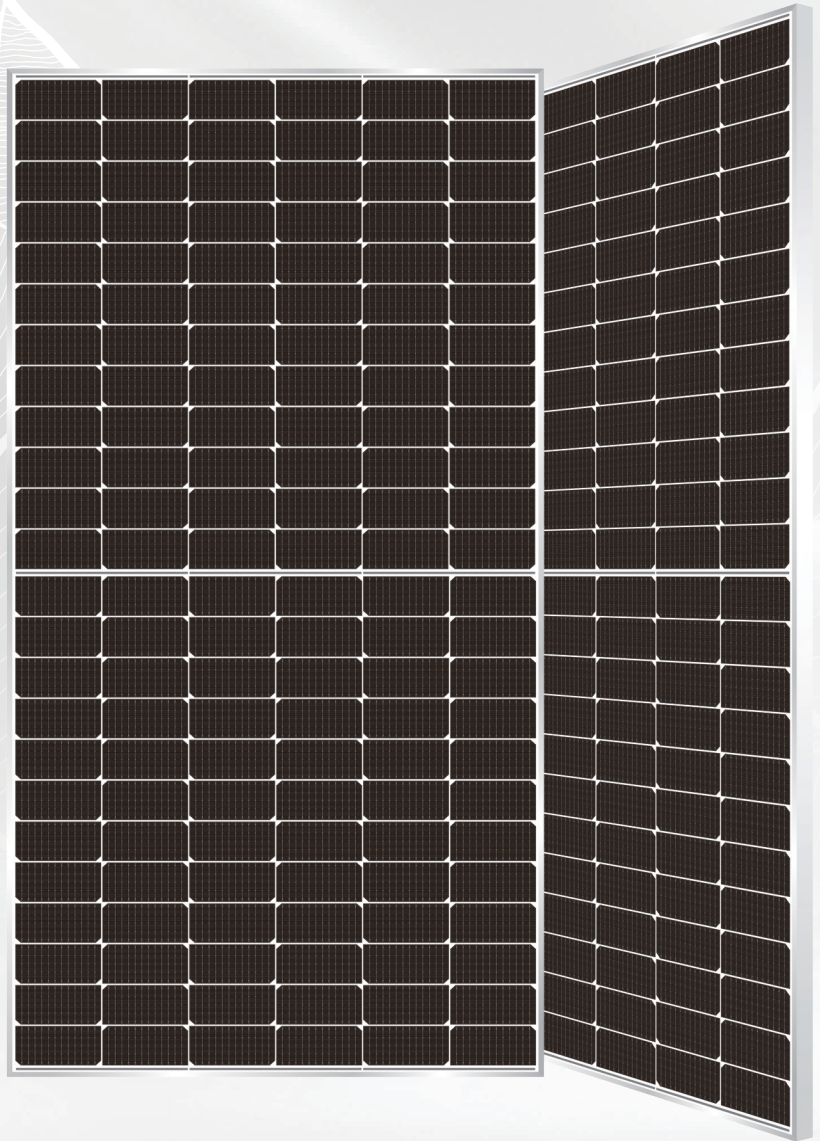


# Himalaya M6 Series

## 440-460W

144-cell Bifacial HJT Half Cell  
Solar Module



**HJT**

Heterojunction  
Technology

**M6**

166mm Cell



SMBB Half-Cut  
Cell Technology



Up to 85% Bifaciality



Reliable · Durable  
· Sustainable

**WARRANTY**

Product  
Warranty

**15**  
years

Linear  
Power  
Warranty

**30**  
years



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The Specification and key features described in this datasheet may deviate slightly and are not guaranteed, Anhui Huasun reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain the latest version of the datasheet which shall be duly incorporated into the binding contract made by the parties governing all transactions related to the purchase and sale of the products described herein.



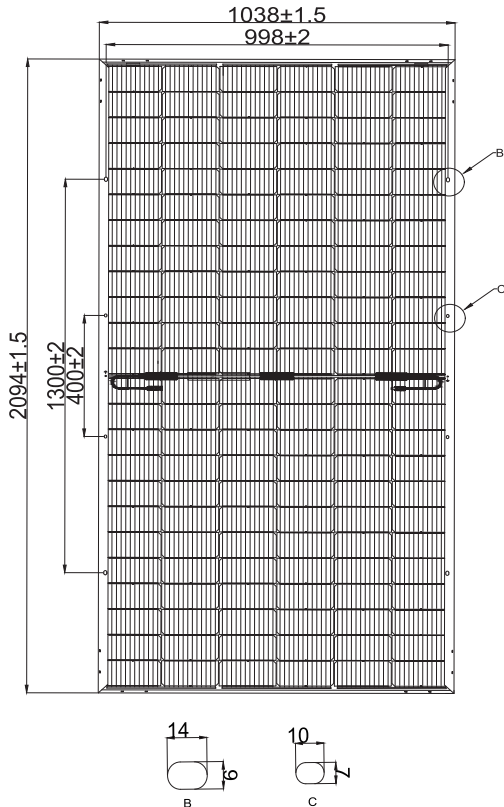
# Himalaya M6 Series 440-460W

## 144-cell Bifacial HJT Half Cell Solar Module



### Engineering Drawings

Unit: mm



### Electrical Characteristics (STC\*)

Model	HS-B144	HS-B144	HS-B144	HS-B144	HS-B144
	DS440	DS445	DS450	DS455	DS460
Maximum Power (Pmax)	440W	445W	450W	455W	460W
Module Efficiency (%)	20.2%	20.5%	20.7%	20.9%	21.2%
Optimum Operating Voltage (Vmp)	44.45V	44.6V	44.85V	45.04V	45.24V
Optimum Operating Current (Imp)	9.92A	9.98A	10.05A	10.12A	10.18A
Open Circuit Voltage (Voc)	52.70V	52.83V	52.96V	53.09V	53.22V
Short Circuit Current (Isc)	10.34A	10.40A	10.46A	10.52A	10.58A
Operating Module Temperature	-40 to +85 °C				
Maximum System Voltage	DC1500V (IEC)				
Maximum Series Fuse	20A				
Power Tolerance	0~+5W				
Bifaciality	80% ± 5%				

\*STC: Irradiance 1000 W/m<sup>2</sup>, cell temperature 25 °C, AM=1.5, Tolerance of Pmax is within +/- 3%.

### BSTC\*\*

Maximum Power (Pmax)	490W	495W	500W	505W	510W
Optimum Operating Voltage (Vmp)	45.28V	45.51V	45.74V	45.97V	46.20V
Optimum Operating Current (Imp)	10.96A	11.01A	11.05A	11.10A	11.14A
Open Circuit Voltage (Voc)	53.53V	53.73V	53.93V	54.13V	54.33V
Short Circuit Current (Isc)	11.42A	11.45A	11.47A	11.50A	11.53A

\*\*BSTC: Front side irradiation 1000W/m<sup>2</sup>, back side reflection irradiation 135W/m<sup>2</sup>, AM=1.5, ambient temperature 25 °C.

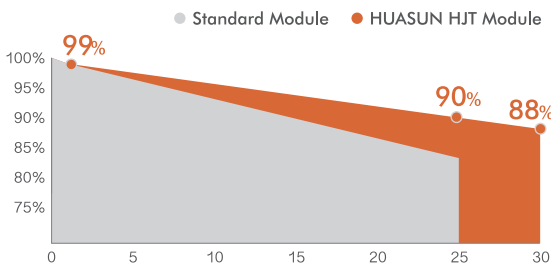
### Temperature Characteristics

Nominal Operating Cell Temp. (NOCT)	44 °C ± 2 °C
Temperature coefficient of Pmax	-0.26%/°C
Temperature coefficient of Voc	-0.24%/°C
Temperature coefficient of Isc	0.04%/°C

### Safety & Warranty

Safety Class	Class II
Fire Rating	Class A
Product Warranty	15 yrs Workmanship
Performance Warranty	30 yrs Linear Warranty*

\* 1st year 99%, after 2nd year 0.375% annual degradation to year 30.



\* Refer to HUASUN standard warranty for details

### Mechanical Characteristics

Cell Type	HJT Mono 166 × 83mm
Cell Connection	144 (72 × 2)
Module Dimension	2094 × 1038 × 30 mm
Weight	27.5 kg
Junction Box	IP67 / IP68
Output Cable	4mm <sup>2</sup> , 200mm in length, length can be customized / UV Resistant
Connectors Type	MC4 Compatible
Frame	Anodised Aluminum Alloy
Encapsulant	POE
Front Load	5400 Pa
Rear Load	2400 Pa
Glass Thickness	(F) 2.0mm Anti-reflective surface Solar glass   (B) 2.0mm Solar glass

### Shipping Configurations

	HC	GP
Container Length	40'	20'
Pallets Per Container	22	5
Modules Per Pallet (pcs)	35	35
Modules Per Container (pcs)	770	175

ANHUI HUASUN ENERGY CO., LTD.

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NO.99 Qingliu Road, Economic and Technological Development Zone, Xuancheng, Anhui, China  
Tel: 0086-563-2626509 sales@huasun.net www.huasun.net