



## Black

## 500W

### SMBB Half-Cut Cell Technology

Up to 21.96% efficiency for black module

### Up to 85% Bifaciality

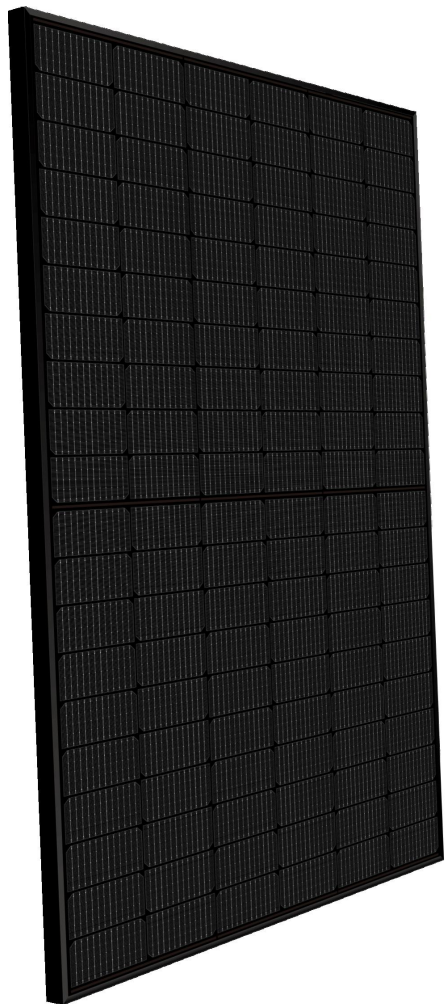
Unique 12BB HJT Cell with Half-cut design

### PIB Technology

Black but transparent outfit, elegant for any rooftop

### Reliable·Durable Sustainable

15/30 years warranty, long-term high performance ensured



### WARRANTY

ProductWarranty **15years**

LinearPowerWarranty **30years**

## Heterojunction166mm Cell



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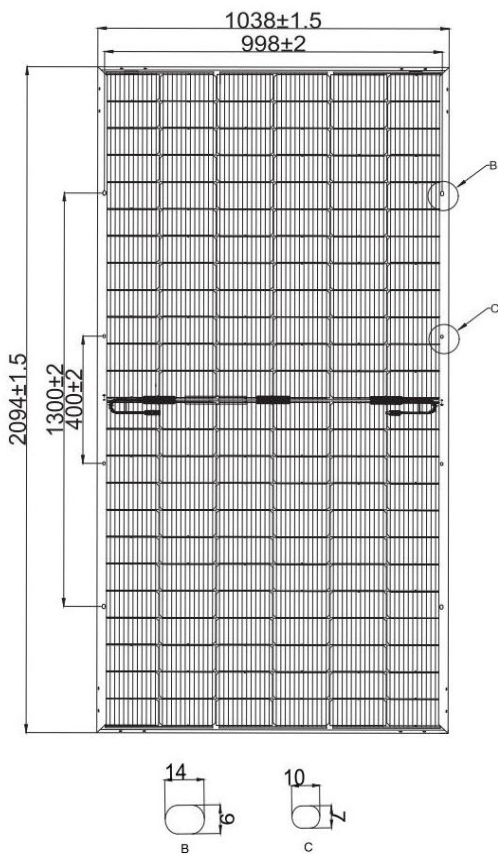


## 500W

### 144-cell Bifacial HJT Half Cell Solar Module

#### Engineering Drawings

Unit: mm



#### Electrical Characteristics (STC\*)

HS-166-B144-DS500

Maximum Power (Pmax)	500W
Module Efficiency (%)	23.00%
Optimum Operating Voltage (Vmp)	46.69V
Optimum Operating Current (Imp)	10.71A
Open Circuit Voltage (Voc)	54.75V
Short Circuit Current (Isc)	11.06A
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)	550W
Optimum Operating Voltage (Vmp)	48.17V
Optimum Operating Current (Imp)	11.42A
Open Circuit Voltage (Voc)	56.62V
Short Circuit Current (Isc)	12.35A

\*\*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
Product Warranty	15 yrs Workmanship
Performance Warranty	30 yrs Linear Warranty*

\* Less than 1% attenuation in the 1st year, the annual attenuation from the 2nd year is no more than 0.375%, and the power is no less than 88% until the 30th year.



\* Refer to HUASUN standard warranty for details

#### Mechanical Characteristics

Cell Type	HJT Mono 166×83mm
Cell Connection	144 (6×24)
Module Dimension	2094×1038×30 mm
Weight	27.5 kg
Junction Box	IP68
Output Cable	4mm <sup>2</sup> , 300mm in length, length can be customized / UV resistant
Connectors Type	MC4 compatible
Frame	Anodised aluminum alloy
Encapsulant	EPE
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 Size	40'	20'
Pallets Per Container	22	5
Modules Per Pallet (pcs)	36	36
Modules Per Container (pcs)	792	180