



HJT

500W-520W

Heterojunction Technology

Up to 21.96% efficiency for black module

166mm Cel

Unique 12BB HJT Cell with Half-cut design

SMBB Half-Cut Cell Technology

Black but transparent outfit, elegant for any rooftop

Up to 95% Bifaciality

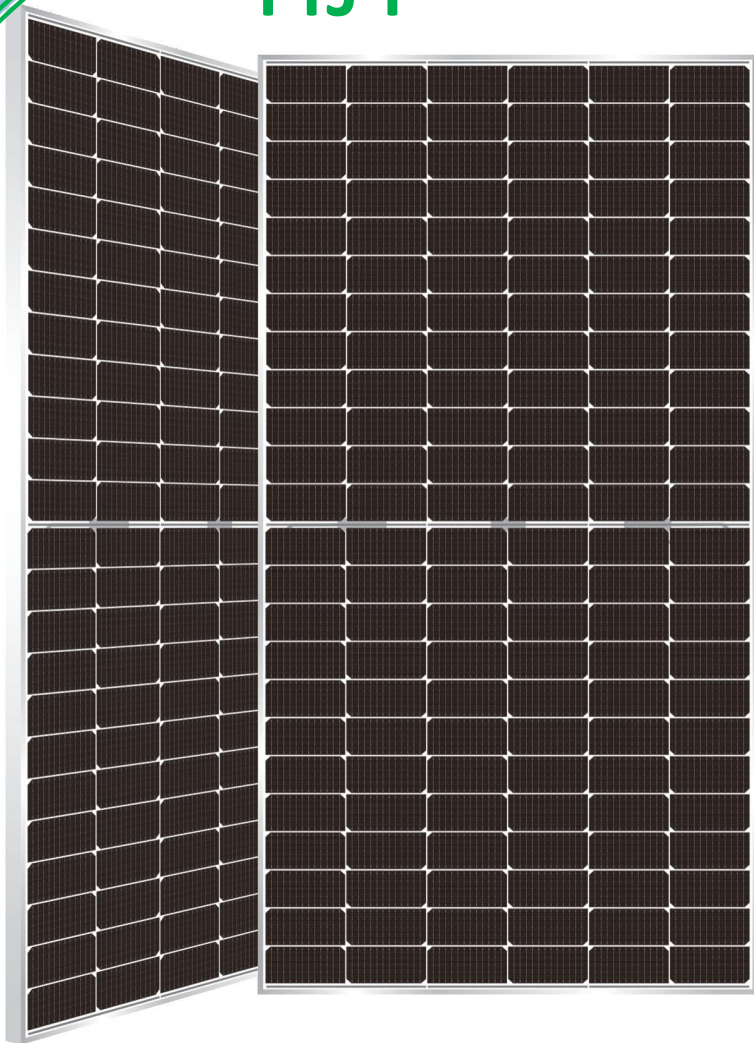
15/30 years warranty, long-term high performance ensured

Reliable, Durable Sustainable

WARRANTY

Product Warranty **15 years**

Linear Power Warranty **30 years**



156-cell Bifacial Transparent HJT Half Cell Solar Module



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www.fnepower.com

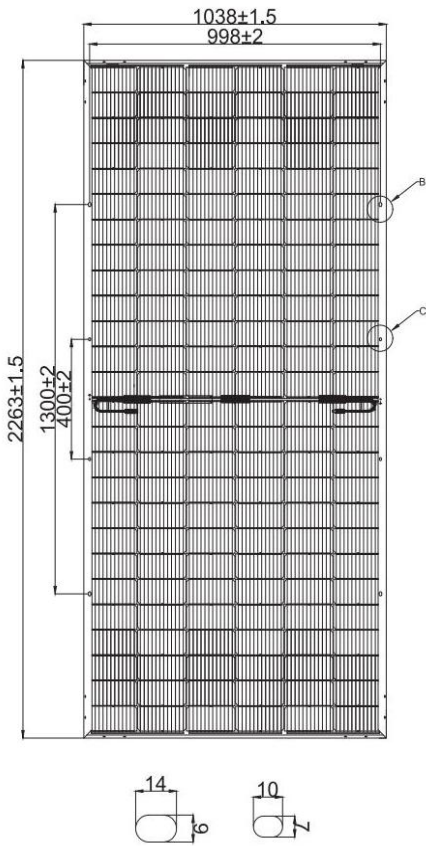


500W-520W

156-cell Bifacial Transparent HJT Half Cell Solar Module

Engineering Drawings

Unit: mm



Electrical Characteristics (STC*)

Model	HS-B156	HS-B156	HS-B156	HS-B156	HS-B156
	DSN500	DSN505	DSN510	DSN515	DSN520
Maximum Power (Pmax)	500W	505W	510W	515W	520W
Module Efficiency (%)	21.29%	21.50%	21.71%	21.92%	22.14%
Optimum Operating Voltage (Vmp)	49.27V	48.61V	50.05V	50.45V	50.84V
Optimum Operating Current (Imp)	10.15A	10.39A	10.19A	10.21A	10.23A
Open Circuit Voltage (Voc)	58.27V	58.04V	59.07V	59.46V	59.85V
Short Circuit Current (Isc)	10.51A	10.70A	10.55A	10.57A	10.59A
Operating Module Temperature	-40 to +85 °C				
Maximum System Voltage	DC1500V (IEC)				
Maximum Series Fuse	20A				
Power Tolerance	0~+5W				
Bifaciality	90% ± 5%				

*STC: Irradiance 1000 W/m², cell temperature 25 °C, AM=1.5. Tolerance of Pmax is within +/- 3%.

BSTC**

Maximum Power (Pmax)	550W	560W	565W	570W	575W
Optimum Operating Voltage (Vmp)	49.69V	50.05V	50.41V	50.76V	51.12V
Optimum Operating Current (Imp)	11.17A	11.19A	11.21A	11.23A	11.25A
Open Circuit Voltage (Voc)	58.32V	58.68V	59.13V	59.48V	59.87V
Short Circuit Current (Isc)	11.67A	11.69A	11.71A	11.73A	11.75A

**BSTC: Front side irradiation 1000W/m², back side reflection irradiation 135W/m², 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*

* 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	156 (78 × 2)
Module Dimension	2263 × 1038 × 30 mm
Weight	27 kg
Junction Box	IP67 / IP68
Output Cable	4mm ² , 1200mm 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	20	4
Modules Per Pallet (pcs)	36	36
Modules Per Container (pcs)	720	144