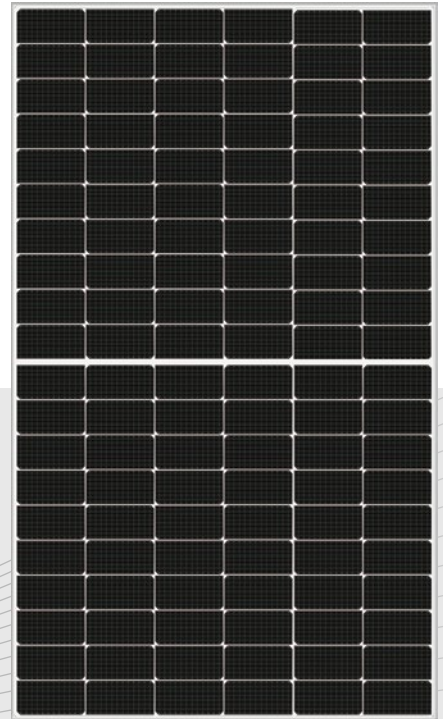




HUASUN

Bright Your Sustainable Future

HS-B120DS SERIES



375W | 380W | 385W | 390W | 395W

120-cell | Bifacial HJT Mono Half Cell PV-Module Series

WARRANTY

15
years

Product
Warranty

30
years

Linear Power
Warranty

CERTIFICATES



QUALITY BENEFITS

21.68
%

Extreme Power Production

The module efficiency up to 21.68% achieved by utilizing the most advanced technology in the solar industry.



SuperMBB Half-Cut Cell Technology

Using the advanced 12BB solar cell combines with half-cut cell technology to guarantee more power.



Advanced Bifacial Efficiency

Bifaciality >92%, effectively improves backside power generation.

A bifacial cell design that generates energy from both sides, capturing and converting more sunlight into power even with a backsheet.



Weak light

High Energy Yield

Excellent weak light performance and better performance in hot climate. Leading temperature coefficient for more production when the sun shines strongest, Or under the cloudy, haze condition.

5,400
2,400
Pascal

Guaranteed Better Durability

Certified for snow and wind loads of a maximum of 5,400 / 2,400 Pascals and with better protection against harsh weather to improve cell life for long-lasting high power.

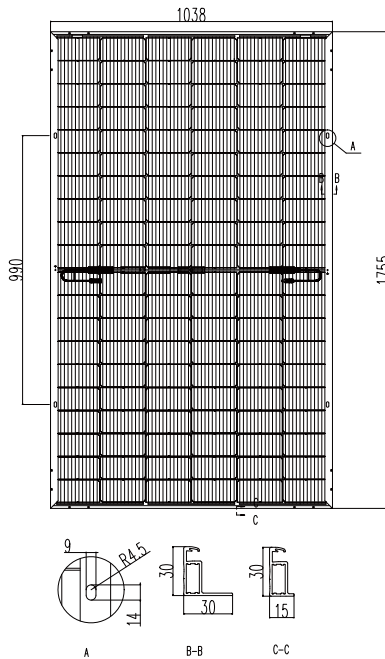


Industry Leading Output Warranty

Huasun solar cell technology result in extremely low LID and PID which supports reliability and longevity. 12% power degradation in 30 years.

The Specification and key features described in this datasheet may deviate slightly and are not guaranteed. Reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain the most recent 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.

Engineering Drawings



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

Shipping Configurations

	HC	GP
Container Length	40'	20'
Pallets Per Container	26	12
Modules Per Pallet	35pcs	35pcs
Modules Per Container	910pcs	420pcs

Certifications & Warranty

Safety	IEC61215, IEC61730
Fire Rating	Class A
Product Warranty	15 Yrs Workmanship
Performance Warranty of Pmax	30 Yrs Power Output (Linear)*

* 1st year 99%, after 2nd year 0.37% annual degradation to year 30.

Electrical Characteristics (STC)

Model Number	HS-B120 DS375	HS-B120 DS380	HS-B120 DS385	HS-B120 DS390	HS-B120 DS395
Maximum Power (Pmax)	375W	380W	385W	390W	395W
Max Module Efficiency(%)	20.59%	20.86%	21.13%	21.41%	21.68%
Voltage at Max Power (Vmp)	37.31V	37.52V	37.70V	37.91V	38.16V
Current at Max Power (Imp)	10.06A	10.14A	10.22A	10.30A	10.36A
Open Circuit Voltage (Voc)	44.09V	44.22V	44.35V	44.48V	44.61V
Short Circuit Voltage (Isc)	10.44A	10.50A	10.56A	10.62A	10.68A
Operating Module Temperature	-40 to +85 C				
Maximum System Voltage	DC1500V (IEC)				
Maximum Series Fuse	20A				
Rating Power Sorting	0~+5W				
Bifaciality (%)	80 (0~+5)				

*STC: Irradiance 1000 W/m², module temperature 25 C, AM=1.5; Best in Class AAA solar simulator used, power measurement uncertainty is within +/- 3%.

NOCT	375W	380W	385W	390W	395W
Max. Power at NOCT (Pmax)	286W	290W	294W	298W	301W
Voltage Max. Power (Vmp)	35.39V	35.56V	35.72V	35.86V	35.9V
Current Max Power (Imp)	8.09A	8.18A	8.25A	8.32A	8.39A
Open Circuit Voltage (Voc)*	41.58V	41.81V	42.01V	42.13V	42.2V
Short Circuit Voltage (Isc)*	8.45A	8.50A	8.55A	8.59A	8.65A

*NOCT: 800W/m² Irradiance, 20 C ambient temperature, AM=1.5, wind speed 1m/s. Values are based on RETC certified results from a light-soaked module.

Mechanical Characteristics

Laminate Structure	Glass/ POE/ Cells/ POE/ Glass
Cell Type	HJT Mono 166 x 83 mm
Cell Connection	120 (60x2)
Module Dimensions	1755 x 1038 x 30 mm
Weight	22.2kg
Junction Box	Degree of protection IP67
Output Cable	4mm ² , 200mm in length, length can be customized
Connectors Type	UV Resistant Cable/Compatible MC4
Frame	Anodised Aluminum Alloy
Encapsulant	POE
Front Load*	5400 Pa
Real Load*	2400 Pa
Glass Thickness	(F) 2.0mm Anti-reflective surface Solar glass (B) 2.0mm Solar glass

* Mechanical load test report per Solar PTL (IEC 61730)