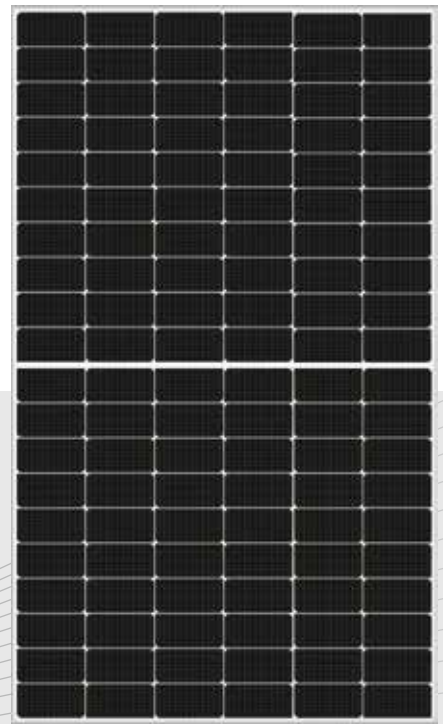




HUASUN

Bright Your Sustainable Future

HS-B120DS SERIES



380W | 385W | 390W | 395W | 400W

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

WARRANTY

15
years

Product
Warranty

30
years

Linear Power
Warranty

CERTIFICATES



JP-AC



QUALITY BENEFITS

22.0
%

Extreme Power Production

The module efficiency up to 22.0% achieved by utilizing the most advanced technology in the solar industry.



SuperMBB Half-Cut Cell Technology

Using the advanced 9BB solar cell combines with half-cut cell technology to guarantee more power.



Advanced Bifacial Efficiency

Bifaciality >80%, 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.

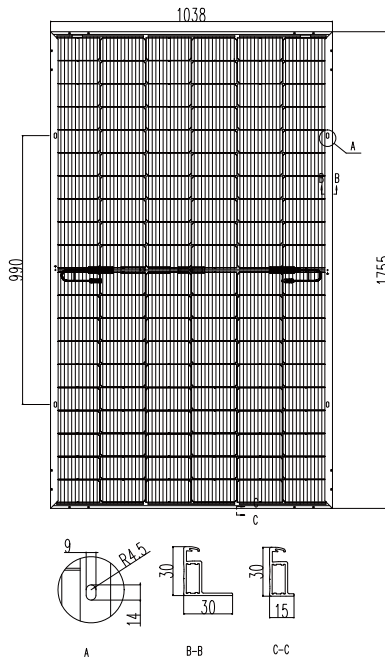


Industry Leading Output Warranty

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	6
Modules Per Pallet	35pcs	35pcs
Modules Per Container	910pcs	210pcs

Certifications & Warranty

Safety	Class II
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 DS380	HS-B120 DS385	HS-B120 DS390	HS-B120 DS395	HS-B120 DS400
Maximum Power (Pmax)	380W	385W	390W	395W	400W
Max Module Efficiency(%)	20.9%	21.10%	21.4%	21.7%	22.0%
Voltage at Max Power (Vmp)	37.52V	37.7V	37.91V	38.16V	38.36V
Current at Max Power (Imp)	10.14A	10.22A	10.3A	10.36A	10.43A
Open Circuit Voltage (Voc)	44.22V	44.35V	44.48V	44.61V	44.74V
Short Circuit Voltage (Isc)	10.50A	10.56A	10.62A	10.68A	10.74A
Operating Module Temperature	-40 to +85 C				
Maximum System Voltage	DC1500V (IEC)				
Maximum Series Fuse	20A				
Rating Power Sorting	0~+5W				
Bifaciality (%)	80±5				

BSTC**

Max. Power at BSTC (Pmax)	420W	425W	430W	435W	440W
Voltage Max. Power (Vmp)	38.31V	38.50V	38.67V	38.93V	39.20V
Current Max Power (Imp)	11.09A	11.13A	11.18A	11.23A	11.28A
Open Circuit Voltage (Voc)*	45.34V	45.61V	45.94V	46.81V	47.51V
Short Circuit Voltage (Isc)*	11.49A	11.53A	11.57A	11.61A	11.65A

*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%.

**BSTC : Front side irradiation 1000W/m², back side reflection irradiation 135W/m², spectrum AM1.5, ambient temperature 25 C. 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	23.5kg
Junction Box	Degree of protection IP67/IP68
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)