



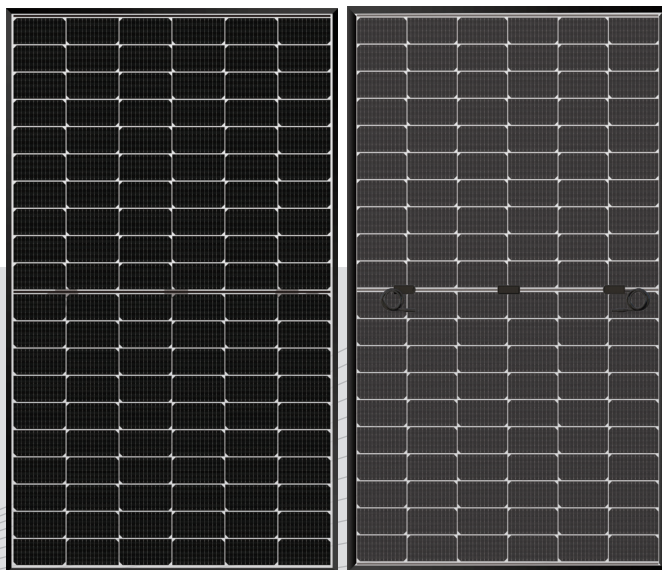
HUASUN

Bright Your
Sustainable Future

HS-B120DSN SERIES

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

120-cell Bifacial Transparent HJT HCC Solar Module



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 21.40% 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 > 90%, 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.

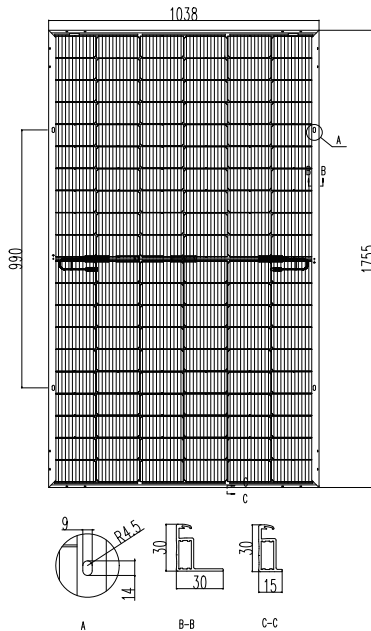
The Specification and key features described in this datasheet may deviate slightly and are not guaranteed. Reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain the most recent version of the datasheet which shall be duly incorporated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



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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 DSN380	HS-B120 DSN385	HS-B120 DSN390	HS-B120 DSN395	HS-B120 DSN400
Maximum Power (Pmax)	380W	385W	390W	395W	400W
Max Module Efficiency(%)	20.9%	21.1%	21.4%	21.7%	22.0%
Voltage at Max Power (Vmp)	37.09V	37.15V	37.23V	37.32V	37.43V
Current at Max Power (Imp)	10.27A	10.37A	10.49A	10.60A	10.70A
Open Circuit Voltage (Voc)	44.47V	44.57V	44.67V	44.77V	44.87V
Short Circuit Voltage (Isc)	10.72A	10.82A	10.92A	11.02A	11.12A
Operating Module Temperature	-40 to +85 °C				
Maximum System Voltage	DC1500V (IEC)				
Maximum Series Fuse	20A				
Rating Power Sorting	0~+5W				
Bifaciality (%)	90±5				

BSTC**

Max. Power at BSTC (Pmax)	425W	430W	435W	440W	445W
Voltage Max. Power (Vmp)	38.49V	38.70V	38.87V	39.18V	39.50V
Current Max Power (Imp)	11.13A	11.18A	11.22A	11.28A	11.32A
Open Circuit Voltage (Voc)*	45.61V	45.88V	46.21V	46.84V	47.54V
Short Circuit Voltage (Isc)*	11.54A	11.58A	11.61A	11.64A	11.66A

*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)

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