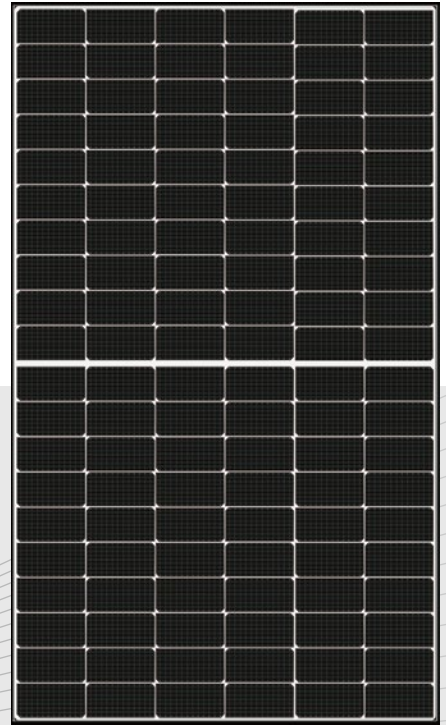




**HUASUN**

**Bright Your Sustainable Future**

# HS-S120SS SERIES



380W | 385W | 390W | 395W | 400W  
120-cell | HJT Mono Half Cell PV-Module Series

## WARRANTY

**15**  
years

Product  
Warranty

**30**  
years

Linear Power  
Warranty

## CERTIFICATES



## QUALITY BENEFITS

21.96  
%

### Extreme Power Production

The module efficiency up to 21.96% 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 Heterojunction cells

Combine the best of crystalline and thin-film technologies, N-type technology. With highly efficient cell architecture for high performance and special anti-reflective glass increases light transmission for higher power.



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.

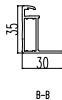
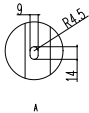
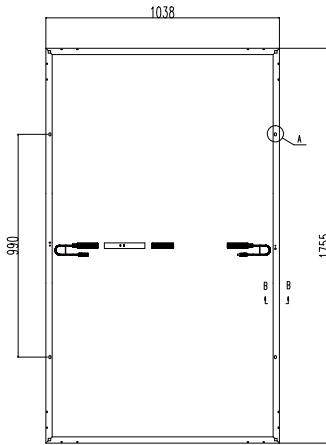


### Industry Leading Output Warranty

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	30pcs	30pcs
Modules Per Container	780pcs	360pcs

## Certifications & Warranty

Safety	IEC61215, IEC61730
Fire Rating	Class C
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-S120 SS380	HS-S120 SS385	HS-S120 SS390	HS-S120 SS395	HS-S120 SS400
Maximum Power (Pmax)	380W	385W	390W	395W	400W
Max Module Efficiency(%)	20.86%	21.13%	21.41%	21.68%	21.96%
Voltage at Max Power (Vmp)	37.7V	37.91V	38.02V	38.22V	38.43V
Current at Max Power (Imp)	10.09A	10.17A	10.27A	10.34A	10.41A
Open Circuit Voltage (Voc)	44.41V	44.5V	44.62V	44.74V	44.92V
Short Circuit Voltage (Isc)	10.50A	10.58A	10.67A	10.77A	11.85A
Operating Module Temperature	-40 to +85 C				
Maximum System Voltage	DC1500V (IEC)				
Maximum Series Fuse	20A				
Rating Power Sorting	0~+5W				

\*STC: Irradiance 1000 W/m<sup>2</sup>, module temperature 25 C, AM=1.5; Best in Class AAA solar simulator used, power measurement uncertainty is within +/- 3%.

## NOCT

	380W	385W	390W	395W	400W
Max. Power at NOCT (Pmax)	290W	294W	298W	301W	306W
Voltage Max. Power (Vmp)	35.58V	35.72V	35.99V	36.17V	36.35V
Current Max Power (Imp)	8.17A	8.24A	8.29A	8.34A	8.42A
Open Circuit Voltage (Voc)*	41.8V	42.01V	42.13V	42.23V	42.37V
Short Circuit Voltage (Isc)*	8.58A	8.62A	8.67A	8.73A	8.81A

\*NOCT: 800W/m<sup>2</sup> 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/ Backsheet
Cell Type	HJT Mono 166 x 83 mm
Cell Connection	120 (60x2)
Module Dimensions	1755 x 1038 x 35 mm
Weight	19.5 kg
Junction Box	Degree of protection IP67
Output Cable	4mm <sup>2</sup> , 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	3.2mm Anti-reflective surface, Solar glass

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