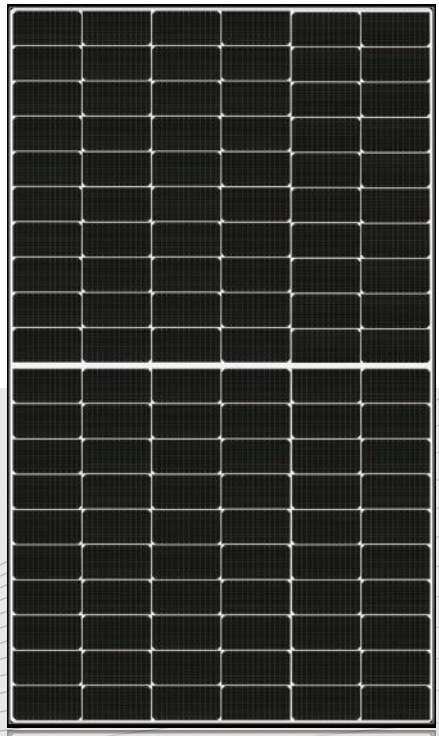
WattPower®

WP-S120S 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

CE · TÜV SÜD · MCS · CQC

QUALITY BENEFITS

21.95 %

Extreme Power Production

The module efficiency up to 21.95% achieved by utilizing the most advanced technology in the solar industry.

SuperMBB

SuperMBB Half-Cut Cell Technology

Using the advanced 12BB solar cell conbines 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

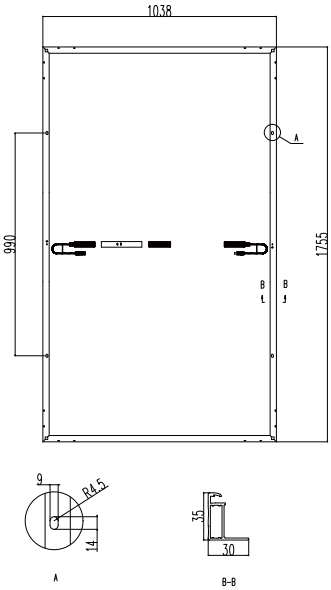
Guaranteed Better Durability

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

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

Engineering Drawings



Electrical Characteristics (STC)

Model Number	WP-S120 S380	WP-S120 S385	WP-S120 S390	WP-S120 S395	WP-S120 S400
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)	37.7V	37.8V	38.01V	38.22V	38.4V
Current at Max Power (Imp)	10.09A	10.21A	10.29A	10.37A	10.45A
Open Circuit Voltage (Voc)	44.41V	44.5V	44.62V	44.75V	44.83V
Short Circuit Voltage (Isc)	10.77A	10.84A	10.91A	10.98A	11.07A
Operating Module Temperature	-40 to +85 ℃				
Maximum System Voltage	DC1500V (IEC)				
Maximum Series Fuse	20A				
Rating Power Sorting	0~+5W				

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

NOCT

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	36.42V
Current Max Power (Imp)	8.17A	8.24A	8.29A	8.34A	8.42A
Open Circuit Voltage (Voc)*	41.8V	42.01V	42.1V	42.2V	42.26V
Short Circuit Voltage (Isc)*	8.69A	8.74A	8.8A	8.86A	8.93A

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

Temperature Characteristics

Nominal Operating Cell Temp. (NOCT)	44 ℃ (±2 ℃)
Temperature Coefficient of Pmax	-0.26 %/ ℃
Temperature Coefficient of Voc	-0.24 %/ ℃
Temperature Coefficient of Isc	0.04 %/ ℃

Shipping Configurations

	HC	GP
Container Length	40'	20'
Pallets Per Container	26	12
Modules Per Pallet	30pcs	30pcs
Modules Per Container	780pcs	360pcs

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	4mm², 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 Antireflex-coated, High Transmission, Tempered glass

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

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.

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