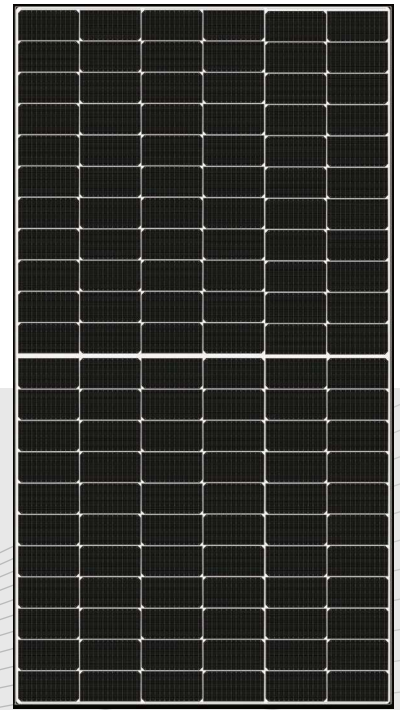




WP-S132S SERIES



415W 420W 425W 430W 435W
132-cell HJT Mono Half Cell PV-Module Series

WARRANTY

15
years

Product
Warranty

30
years

Linear Power
Warranty

CERTIFICATES



QUALITY BENEFITS

21.70
%

Extreme Power Production

The module efficiency up to 21.70% 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

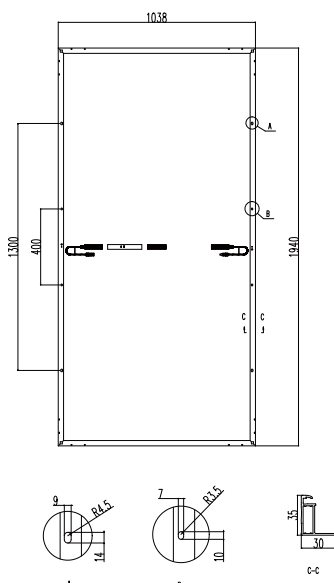
Wattpower solar cell technology result in extremely low LID and PID which supports reliability and longevity. 12% power degradation in 30 years.

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.



WattPower®

Engineering Drawings



Electrical Characteristics (STC)

Model Number	WP-S132 S415	WP-S132 S420	WP-S132 S425	WP-S132 S430	WP-S132 S435
Maximum Power (Pmax)	415W	420W	425W	430W	435W
Max Module Efficiency(%)	20.7%	20.9%	21.2%	21.4%	21.7%
Voltage at Max Power (Vmp)	41.37V	41.53V	41.62V	41.78V	41.84V
Current at Max Power (Imp)	10.04A	10.13A	10.22A	10.31A	10.40A
Open Circuit Voltage (Voc)	48.77V	48.81V	48.92V	49.01V	49.20V
Short Circuit Voltage (Isc)	10.66A	10.71A	10.76A	10.86A	10.95A
Operating Module Temperature	-40 to +85 °C				
Maximum System Voltage	DC1500V (IEC)				
Maximum Series Fuse	25A				
Rating Power Sorting	0~+5W				

*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%.

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

NOCT

	415W	420W	425W	430W	435W
Max. Power at NOCT (Pmax)	340W	343W	347W	350W	354W
Voltage Max. Power (Vmp)	40.38V	40.41V	40.51V	40.75V	41.01V
Current Max Power (Imp)	8.44A	8.51A	8.57A	8.60A	8.62A
Open Circuit Voltage (Voc)*	47.66V	47.83V	48.12V	48.22V	48.43V
Short Circuit Voltage (Isc)*	8.95A	8.98A	9.01A	9.03A	9.05A

*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.

Shipping Configurations

	HC	GP
Container Length	40'	20'
Pallets Per Container	22	10
Modules Per Pallet	30pcs	30pcs
Modules Per Container	660pcs	300pcs

Mechanical Characteristics

Laminate Structure	Glass/ POE/ Cells/ POE/ Backsheet
Cell Type	HJT Mono 166 x 83 mm
Cell Connection	132 (66x2)
Module Dimensions	1940 x 1038 x 35 mm
Weight	21.5 kg
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	3.2mm Antireflex-coated, High Transmission, Tempered glass

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.

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

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Version number: WP_EN_2021_0310

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