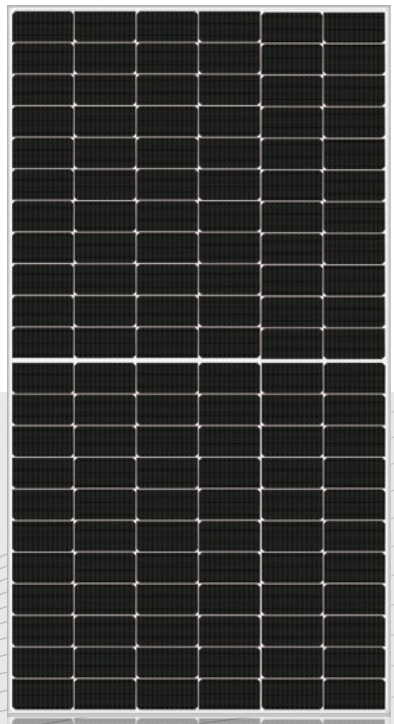
HUASUN

Bright Your
Sustainable Future

HS-B132DS SERIES



410W |415W |420W| 425W| 430W

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

WARRANTY

15 years
Product Warranty

30 years
Linear Power Warranty

CERTIFICATES

QUALITY BENEFITS

21.52 %

Extreme Power Production

The module efficiency up to 21.52% 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 Bifacial Efficiency

Bifaciality>92%, 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.

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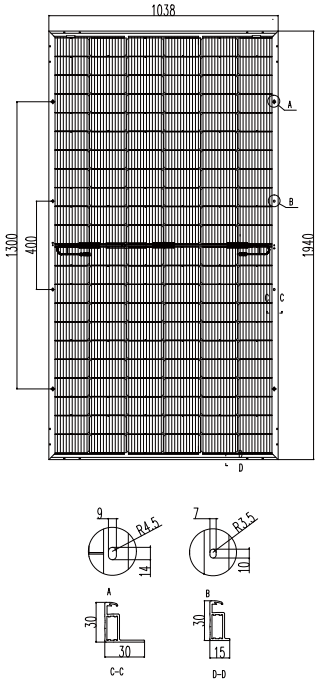
Engineering Drawings



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	24	12
Modules Per Pallet	35pcs	35pcs
Modules Per Container	840pcs	420pcs

Certifications & Warranty

Safety	IEC61215, IEC61730
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-B132 DS410	HS-B132 DS415	HS-B132 DS420	HS-B132 DS425	HS-B132 DS430
Maximum Power (Pmax)	410W	415W	420W	425W	430W
Max Module Efficiency(%)	20.52%	20.77%	21.02%	21.27%	21.52%
Voltage at Max Power (Vmp)	40.76V	40.98V	41.25V	41.54V	41.88V
Current at Max Power (Imp)	10.06A	10.13A	10.19A	10.24A	10.27A
Open Circuit Voltage (Voc)	47.98V	48.25V	48.52V	48.75V	48.91V
Short Circuit Voltage (Isc)	10.58A	10.66A	10.73A	10.80A	10.87A
Operating Module Temperature	-40 to +85℃				
Maximum System Voltage	DC1500V (IEC)				
Maximum Series Fuse	25A				
Rating Power Sorting	0~+5W				
Bifaciality (%)	80 (0~+5)				

*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

	410W	415W	420W	425W	430W
Max. Power at NOCT (Pmax)	307W	311W	315W	319W	322W
Voltage Max. Power (Vmp)	37.99V	38.25V	38.48V	38.71V	38.89V
Current Max Power (Imp)	8.08A	8.14A	8.19A	8.24A	8.28A
Open Circuit Voltage (Voc)*	44.81V	45.09V	45.29V	45.41V	45.71V
Short Circuit Voltage (Isc)*	8.54A	8.61A	8.67A	8.71A	8.76A

*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.

Mechanical Characteristics

Laminate Structure	Glass/ POE/ Cells/ POE/ Glass
Cell Type	HJT Mono 166 x 83 mm
Cell Connection	132 (66x2)
Module Dimensions	1925 x 1038 x 30 mm
Weight	24.5 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	(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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