

Everest G12R Series 500-520W

108-cell Bifacial HJT Half Cell
Double-glass Solar Module



HJT 3.0

Combining gettering process and double-sided $\mu\text{-Si}$ to maximize cell efficiency and module power.



Up to 95% Bifaciality

Natural symmetrical bifacial structure bringing more energy yield from the backside.



Sealing with PIB based sealant

Stronger water resistance, greater air impermeability to extent module lifespan.



Higher reliability

Industrial leading product and performance warranty, ensuring modules' consistent outstanding performance.



Ideal choice for solar rooftop system

Suitable for various rooftop projects.

WARRANTY

Product
Warranty **15**
years

Linear
Power
Warranty **30**
years



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The specification and key features described in this datasheet may deviate slightly and are not guaranteed. Anhui Huasun reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain the latest 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.



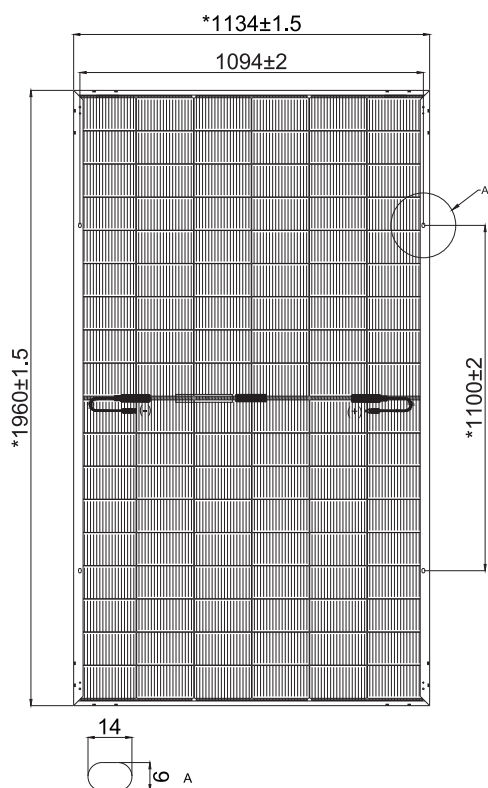
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108-cell Bifacial HJT Half Cell Solar Module

- BloombergNEF Tier 1 PV module manufacturer
- Reinsurance underwritten by Ariel Re

Engineering Drawings

Unit: mm



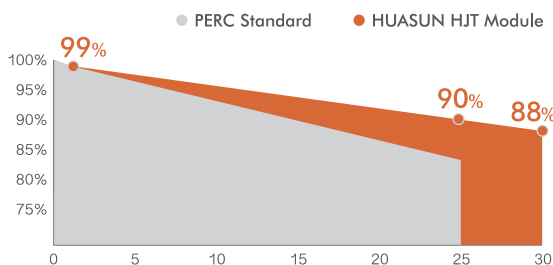
Temperature Characteristics

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

Safety & Warranty

Safety Class	Class II
Product Warranty	15 yrs Workmanship
Performance Warranty	30 yrs Linear Warranty*

* Less than 1% attenuation in the 1st year, the annual attenuation from the 2nd year is no more than 0.375%, and the power is no less than 88% until the 30th year.



* Refer to HUASUN standard warranty for details

Electrical Characteristics (STC*)

HS-210R-B108	DSN500	DSN505	DSN510	DSN515	DSN520
Maximum Power (Pmax)	500W	505W	510W	515W	520W
Module Efficiency (%)	22.50%	22.72%	22.95%	23.17%	23.40%
Optimum Operating Voltage (Vmp)	34.25V	34.41V	34.55V	34.70V	34.85V
Optimum Operating Current (Imp)	14.60A	14.68A	14.76A	14.84A	14.92A
Open Circuit Voltage (Voc)	40.81V	40.97V	41.13V	41.29V	41.45V
Short Circuit Current (Isc)	15.31A	15.39A	15.47A	15.55A	15.63A
Operating Module Temperature	-40 to +85 °C				
Maximum System Voltage	DC1500V (IEC)				
Maximum Series Fuse	30A				
Power Tolerance	0~+5W				
Bifaciality	90% ± 5%				

*STC: Irradiance 1000 W/m², cell temperature 25 °C, AM=1.5. Tolerance of Pmax is within +/- 3%.

BSTC**/NOCT**

Maximum Power (Pmax)	557W	562W	568W	574W	579W
Optimum Operating Voltage (Vmp)	34.37V	34.53V	34.67V	34.82V	34.98V
Optimum Operating Current (Imp)	16.22A	16.30A	16.40A	16.49A	16.57A
Open Circuit Voltage (Voc)	40.95V	41.11V	41.27V	41.43V	41.59V
Short Circuit Current (Isc)	17.06A	17.15A	17.25A	17.34A	17.43A

**BSTC: Front side irradiation 1000W/m², back side reflection irradiation 135W/m², AM=1.5, ambient temperature 25 °C.

Maximum Power (Pmax)	380W	384W	387W	391W	395W
Optimum Operating Voltage (Vmp)	32.59V	32.73V	32.87V	33.02V	33.16V
Optimum Operating Current (Imp)	11.67A	11.73A	11.80A	11.86A	11.93A
Open Circuit Voltage (Voc)	38.95V	39.10V	39.26V	39.41V	39.56V
Short Circuit Current (Isc)	12.23A	12.30A	12.36A	12.43A	12.49A

**NOCT: Irradiance 800W/m², Ambient Temperature 20 °C, Wind Speed 1m/s.

Mechanical Characteristics

Cell Type	HJT Mono 182 × 105mm
Cell Connection	108 (6 × 18)
Module Dimension	1960 x 1134 x30 mm
Weight	27.6 kg
Junction Box	IP68
Output Cable	4mm², 300mm in length, length can be customized / UV resistant
Connectors Type	MC4-Evo 2
Frame	Anodised aluminum alloy(Black)
Front Load	5400 Pa
Rear Load	2400 Pa
Glass Thickness	Double glass, 2.0mm

Shipping Configurations

Container Size	40'HQ
Pallets Per Container (pcs)	22
Modules Per Pallet (pcs)	36
Modules Per Container	792