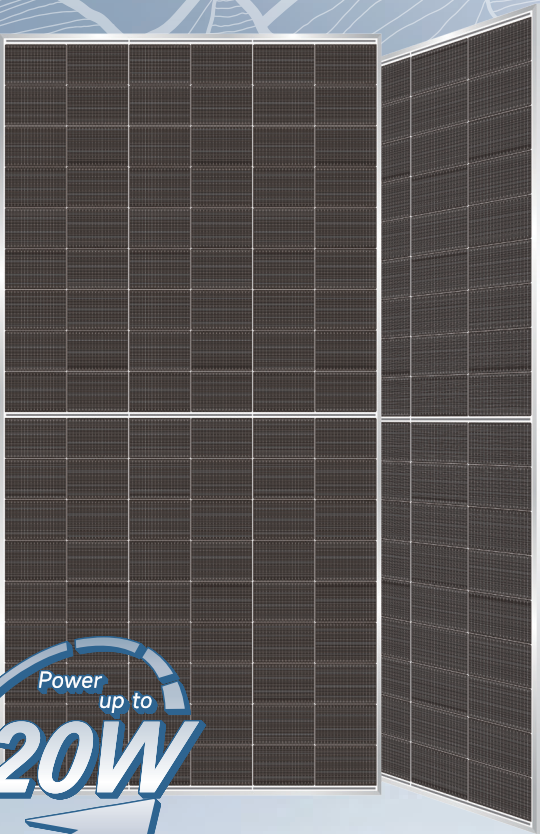




# Himalaya G12R Series 500-520W

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



Power up to  
**520W**



### HJT 3.0

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



### Up to 90% Bifaciality

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



### Sealing with PIB based sealant

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



### Higher reliability

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



### Suitable for Utility Solar projects

## WARRANTY

Product  
Warranty **15**  
years

Linear  
Power  
Warranty **30**  
years



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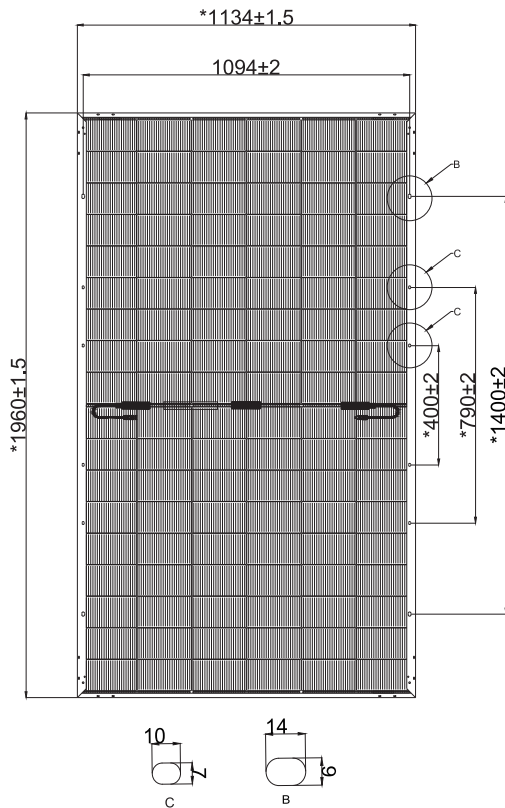
# Himalaya G12R Series 500-520W

108-cell Bifacial HJT Half Cell Solar Module

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

## Engineering Drawings

Unit: mm



## Electrical Characteristics (STC\*)

HS-210R-B108	DS500	DS505	DS510	DS515	DS520
Maximum Power (P <sub>max</sub> )	500W	505W	510W	515W	520W
Module Efficiency (%)	22.50%	22.72%	22.95%	23.17%	23.40%
Optimum Operating Voltage (V <sub>mp</sub> )	34.36V	34.49V	34.61V	34.74V	34.87V
Optimum Operating Current (I <sub>mp</sub> )	14.56A	14.65A	14.74A	14.83A	14.92A
Open Circuit Voltage (V <sub>oc</sub> )	41.67V	41.82V	41.97V	42.12V	42.16V
Short Circuit Current (I <sub>sc</sub> )	15.42A	15.47A	15.52A	15.57A	16.02A
Operating Module Temperature	-40 to +85 °C				
Maximum System Voltage	DC1500V (IEC)				
Maximum Series Fuse	30A				
Power Tolerance	0~+5W				
Bifaciality	85% ± 5%				

\*STC: Irradiance 1000 W/m<sup>2</sup>, cell temperature 25 °C, AM=1.5. Tolerance of P<sub>max</sub> is within +/- 3%.

## NOTC\*\*/BSTC\*\*

Maximum Power (P <sub>max</sub> )	560W	565W	570W	575W	580W
Optimum Operating Voltage (V <sub>mp</sub> )	34.36V	34.49V	34.61V	34.74V	34.87V
Optimum Operating Current (I <sub>mp</sub> )	16.30A	16.39A	16.47A	16.56A	16.64A
Open Circuit Voltage (V <sub>oc</sub> )	41.67V	41.82V	41.97V	42.12V	42.16V
Short Circuit Current (I <sub>sc</sub> )	17.19A	17.25A	17.30A	17.36A	17.86A
Maximum Power (P <sub>max</sub> )	380W	384W	388W	392W	395W
Optimum Operating Voltage (V <sub>mp</sub> )	32.65V	32.77V	32.89V	33.01V	33.13V
Optimum Operating Current (I <sub>mp</sub> )	11.65A	11.72A	11.79A	11.86A	11.94A
Open Circuit Voltage (V <sub>oc</sub> )	39.77V	39.91V	40.06V	40.20V	40.24V
Short Circuit Current (I <sub>sc</sub> )	12.34A	12.38A	12.42A	12.46A	12.82A

\*\*BSTC: Front side irradiation 1000W/m<sup>2</sup>, back side reflection irradiation 135W/m<sup>2</sup>, AM=1.5, ambient temperature 25 °C.

\*\*NOCT: Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20 °C, Wind Speed 1m/s.

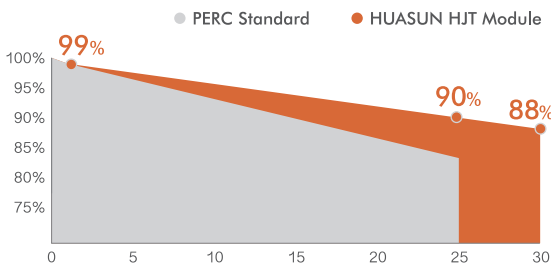
## Temperature Characteristics

Nominal Operating Cell Temp. (NOCT)	44 °C ± 2 °C
Temperature Coefficient of P <sub>max</sub>	-0.26%/°C
Temperature Coefficient of V <sub>oc</sub>	-0.22%/°C
Temperature Coefficient of I <sub>sc</sub>	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

## Mechanical Characteristics

Cell Type	HJT Mono 182 × 105mm
Cell Connection	108 (6 × 18)
Module Dimension	1960 x 1134 x 30 mm
Weight	27.6 kg
Junction Box	IP68
Output Cable	4mm <sup>2</sup> , 300mm in length, length can be customized / UV resistant
Connectors Type	MC4 original / MC4 compatible
Frame	Anodised aluminum alloy
Front Load	5400 Pa
Rear Load	2400 Pa
Glass Thickness	Double glass, 2.0mm

## Shipping Configurations

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

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NO.99 Qingliu Road, Economic and Technological Development Zone, Xuancheng, Anhui, China

Tel: 0086-563-3318095    www.huasunsolar.com

sales@huasunsolar.com    customerservice@huasunsolar.com