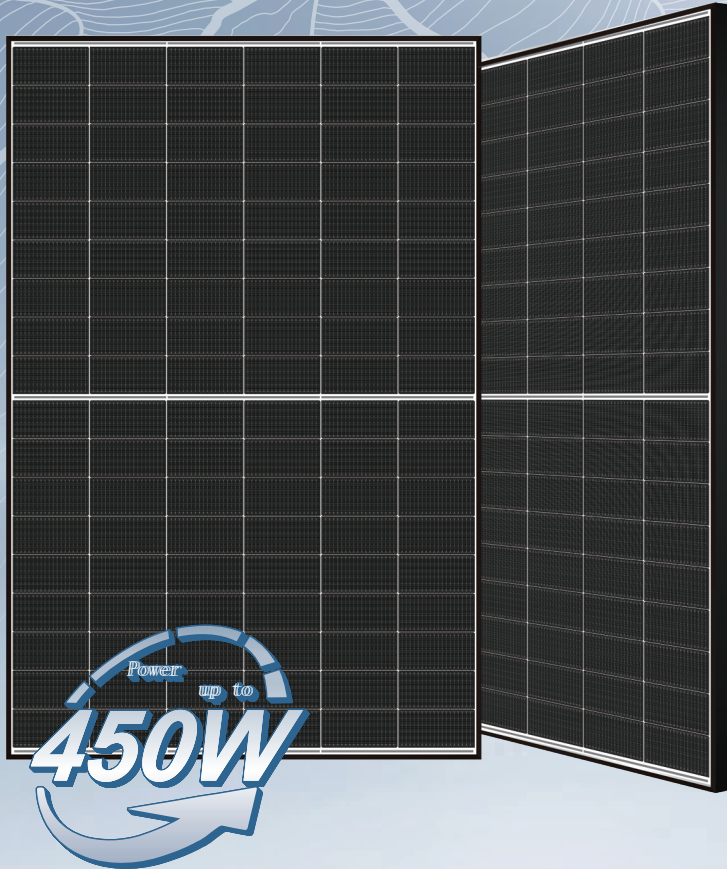


# Himalaya G10 Series 430-450W

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.



### -0.24%/°C Pmax temperature coefficient

More stable power generation performance and even better in hot climate.



### Small Chamfer Design

Bigger power generation area on the solar cell, increasing 1% cell power of single piece.



### SMBB design with Half-Cut Technology

Shorter current transmission distance, less resistive loss and higher cell efficiency.



### 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.



### 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.

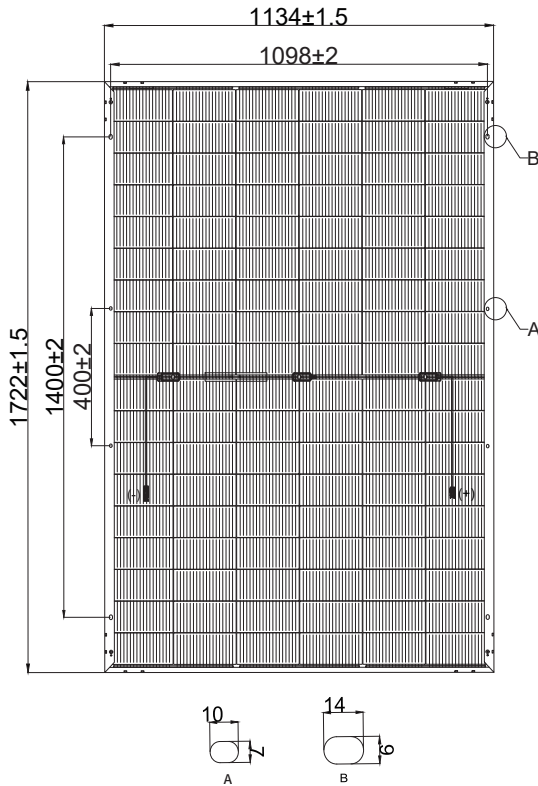
# Himalaya G10 Series 430-450W

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-182-B108	DS430	DS435	DS440	DS445	DS450
Maximum Power (P <sub>max</sub> )	430W	435W	440W	445W	450W
Module Efficiency (%)	22.02%	22.28%	22.53%	22.79%	23.04%
Optimum Operating Voltage (V <sub>mp</sub> )	33.49V	33.75V	34.01V	34.26V	34.51V
Optimum Operating Current (I <sub>mp</sub> )	12.84A	12.89A	12.94A	12.99A	13.04A
Open Circuit Voltage (V <sub>oc</sub> )	40.30V	40.56V	40.83V	41.09V	41.34V
Short Circuit Current (I <sub>sc</sub> )	13.30A	13.35A	13.40A	13.45A	13.50A
Operating Module Temperature	-40 to +85 °C				
Maximum System Voltage	DC1500V (IEC)				
Maximum Series Fuse	25A				
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%.

## BSTC\*\*

Maximum Power (P <sub>max</sub> )	475W	480W	485W	490W	495W
Optimum Operating Voltage (V <sub>mp</sub> )	33.49V	33.75V	34.01V	34.26V	34.51V
Optimum Operating Current (I <sub>mp</sub> )	14.18A	14.23A	14.27A	14.31A	14.35A
Open Circuit Voltage (V <sub>oc</sub> )	40.30V	40.56V	40.83V	41.09V	41.34V
Short Circuit Current (I <sub>sc</sub> )	14.69A	14.73A	14.77A	14.81A	14.85A

\*\*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.

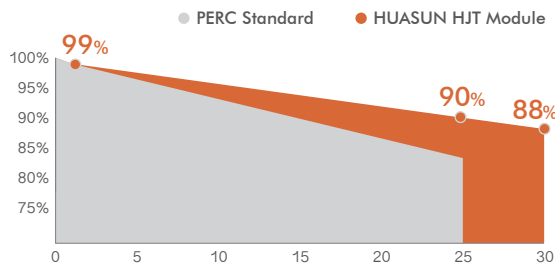
## Temperature Characteristics

Nominal Operating Cell Temp. (NOCT)	44 °C ± 2 °C
Temperature Coefficient of P <sub>max</sub>	-0.24%/°C
Temperature Coefficient of V <sub>oc</sub>	-0.24%/°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 × 91.75mm
Cell Connection	108 (6 × 18)
Module Dimension	1722 × 1134 × 30 mm
Weight	26kg / 22kg
Junction Box	IP68
Output Cable	4mm <sup>2</sup> , 1200mm 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/1.6mm

## Shipping Configurations

Container Size	HC
Pallets Per Container	26
Modules Per Pallet (pcs)	36
Modules Per Container (pcs)	936

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