

# 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.



### -0.26%/°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.



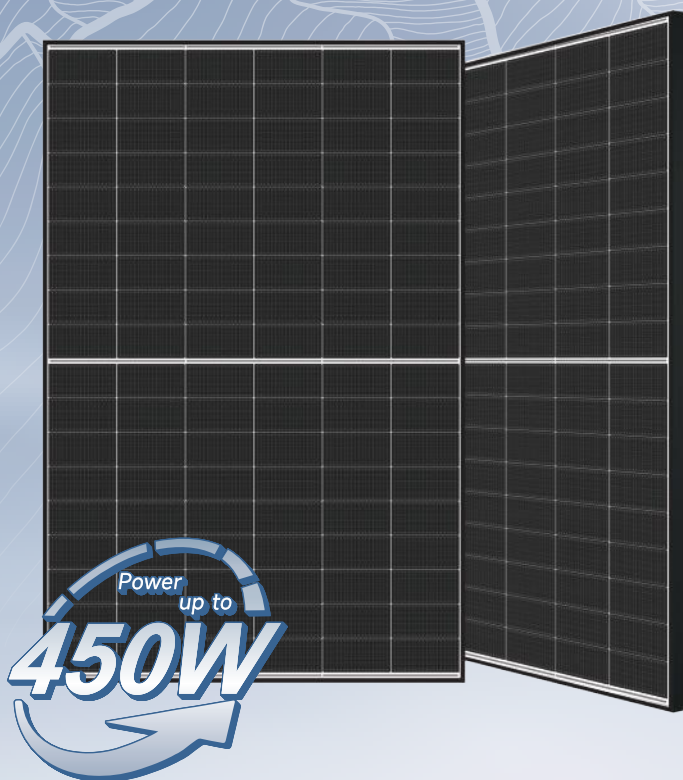
### Higher reliability

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



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.



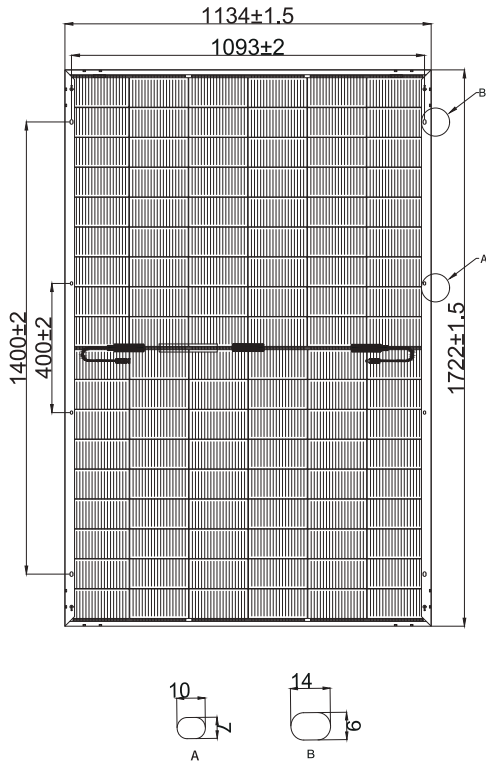
# Himalaya G10 Series 430-450W

## 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.

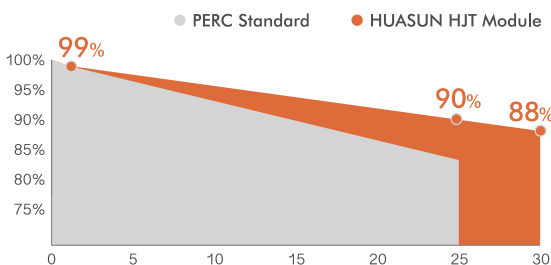
### Temperature Characteristics

|   |              |
|---|--------------|
| Nominal Operating Cell Temp. (NOCT)         | 44 °C ± 2 °C |
| Temperature Coefficient of P <sub>max</sub> | -0.26%/°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 original   |
| 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 |

### ANHUI HUASUN ENERGY CO., LTD.

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