

# Himalaya G10 Black Series

## 420-440W

108-cell Bifacial Half Cell  
Double-glass Solar Module

Transparent



### HJT Technology

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 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 residential rooftop

## WARRANTY

Product Warranty **30** years

Linear Power Warranty **30** years



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File No. HS-T2-SM-0014 Ver. 2.0 Page 1 of 2

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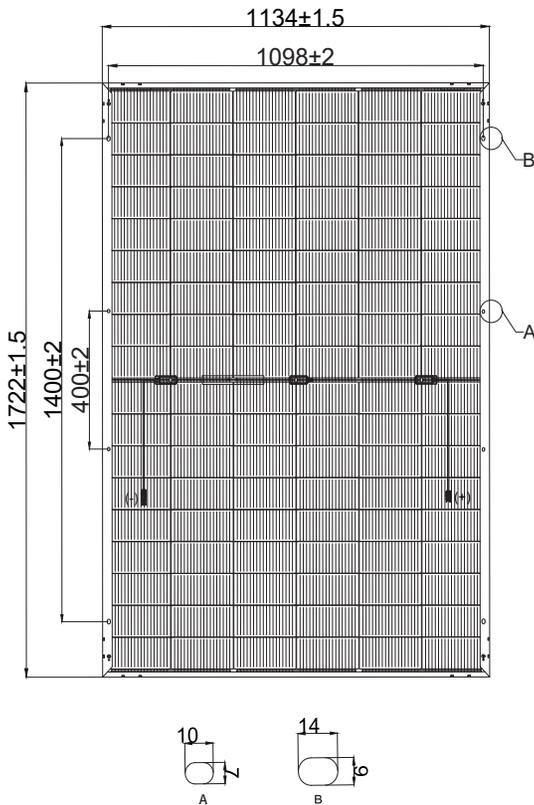
# Himalaya G10 Black Series 420-440W

108-cell Bifacial HJT Solar Half Cell Module

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

## Engineering Drawings

Unit: mm



## Electrical Characteristics (STC\*)

HS-182-B108	DSN420	DSN425	DSN430	DSN435	DSN440
Maximum Power (P <sub>max</sub> )	420W	425W	430W	435W	440W
Module Efficiency (%)	21.51%	21.76%	22.02%	22.28%	22.53%
Optimum Operating Voltage (V <sub>mp</sub> )	34.07V	34.33V	34.60V	34.86V	35.12V
Optimum Operating Current (I <sub>mp</sub> )	12.33A	12.38A	12.43A	12.48A	12.53A
Open Circuit Voltage (V <sub>oc</sub> )	40.83V	41.10V	41.37V	41.64V	41.91V
Short Circuit Current (I <sub>sc</sub> )	12.85A	12.90A	12.95A	13.00A	13.05A
Operating Module Temperature	-40 to +85 °C				
Maximum System Voltage	DC1500V (IEC)				
Maximum Series Fuse	25A				
Power Tolerance	0~+5W				
Bifaciality	90% ± 5%				

\*STC: Irradiance 1000 W/m<sup>2</sup>, cell temperature 25 °C, AM=1.5. Test uncertainty for P<sub>max</sub> ± 3%.

## BSTC\*\*

Maximum Power (P <sub>max</sub> )	471W	476W	482W	487W	493W
Optimum Operating Voltage (V <sub>mp</sub> )	34.19V	34.45V	34.72V	34.98V	35.24V
Optimum Operating Current (I <sub>mp</sub> )	13.78A	13.84A	13.89A	13.95A	14.00A
Open Circuit Voltage (V <sub>oc</sub> )	40.97V	41.24V	41.51V	41.78V	42.06V
Short Circuit Current (I <sub>sc</sub> )	14.41A	14.47A	14.52A	14.58A	14.64A

\*\*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.

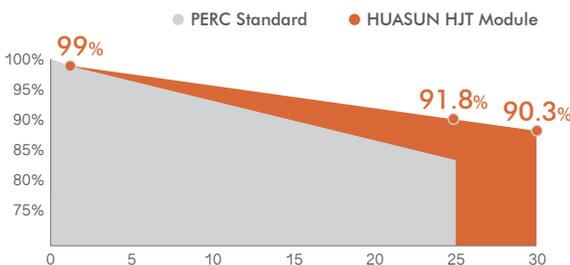
## Temperature Characteristics

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	30 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 0.3%, and the power is no less than 90.3% 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	24.2kg / 21.2kg
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	40'
Modules Per Pallet (pcs)	26
Modules Per Container (pcs)	36
Modules Per Container (pcs)	936

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File No. HS-T2-SM-0014 Ver. 2.0 Page 2 of 2