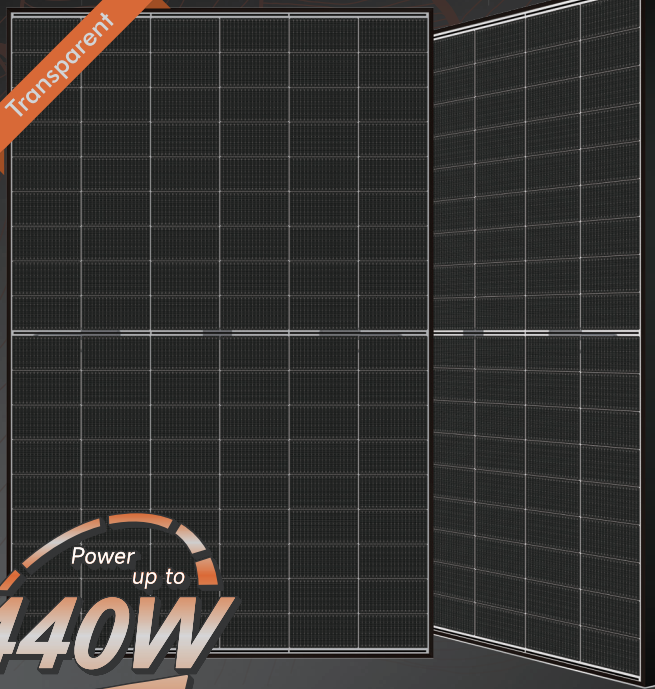


# Himalaya G10 Black Series

## 420-440W

108-cell Bifacial 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%/ $^{\circ}\text{C}$ 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 **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.

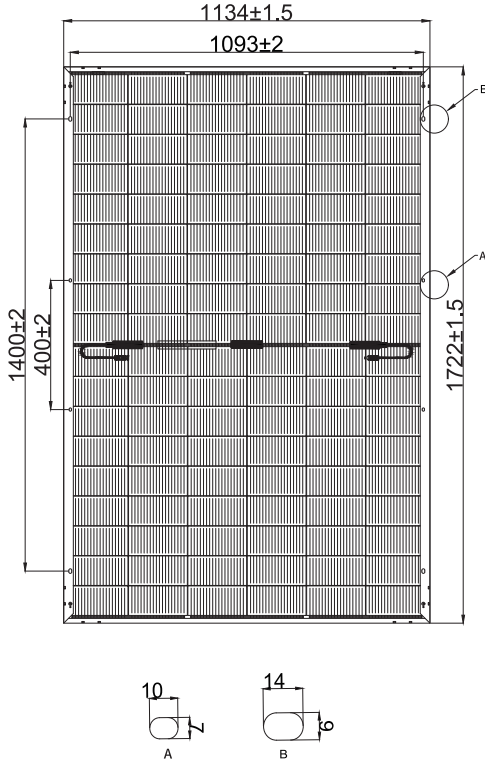
# Himalaya G10 Black Series 420-440W

108-cell Bifacial HJT HCC Solar Module



## 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> )		40.33V	40.60V	40.87V	41.14V	41.41V
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, Tolerance of P<sub>max</sub> is within +/- 3%.

## BSTC\*\*

Maximum Power (P <sub>max</sub> )		470W	475W	480W	485W	490W
Optimum Operating Voltage (V <sub>mp</sub> )		34.07V	34.33V	34.60V	34.86V	35.12V
Optimum Operating Current (I <sub>mp</sub> )		13.80A	13.84A	13.88A	13.92A	13.96A
Open Circuit Voltage (V <sub>oc</sub> )		40.33V	40.60V	40.87V	41.14V	41.41V
Short Circuit Current (I <sub>sc</sub> )		14.38A	14.42A	14.46A	14.49A	14.53A

\*\*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.

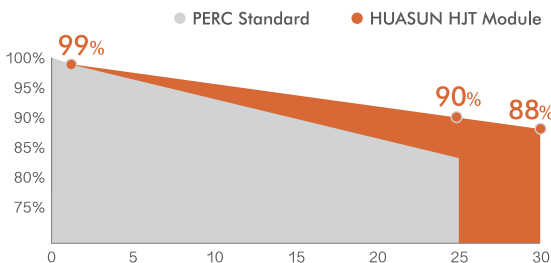
## Temperature Characteristics

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	22 kg
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)
Encapsulant	EPE
Front Load	5400 Pa
Rear Load	2400 Pa
Glass Thickness	(F) 1.6mm anti-reflective solar glass   (B) 1.6mm solar glass

## Shipping Configurations

Container Size	HC
Pallets Per Container	40'
Modules Per Pallet (pcs)	26
Modules Per Container (pcs)	36
	936

ANHUI HUASUN ENERGY CO., LTD.

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