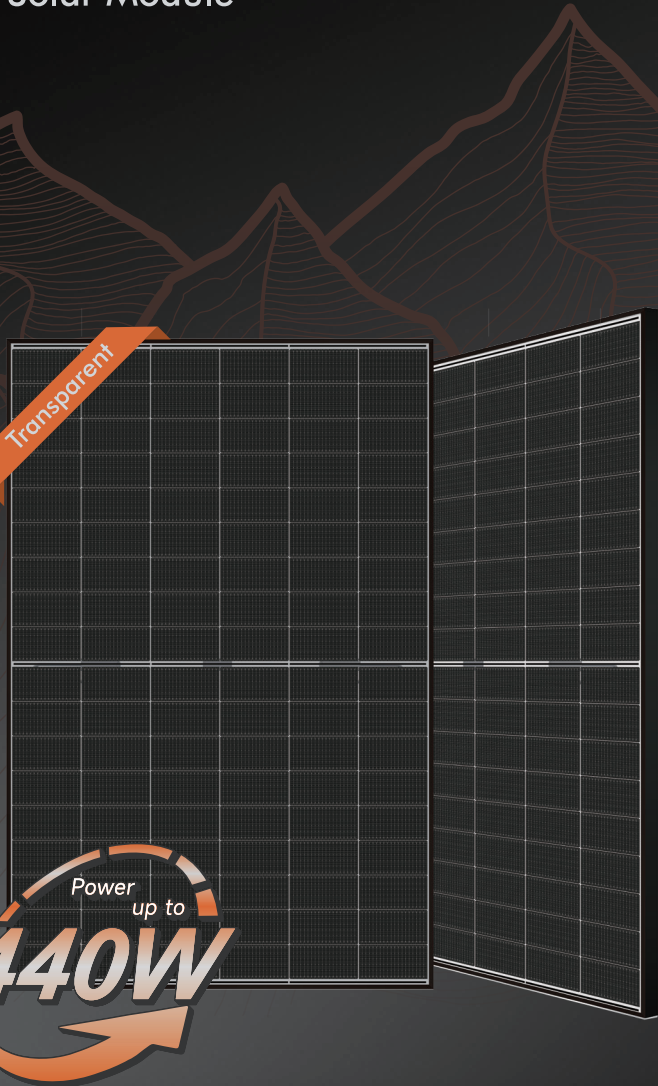


# Himalaya G10 Black Series

## 420-440W

108-cell Bifacial HJT HCC  
Solar Module



### HJT 3.0

Combing 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 extent module lifespan.



### Higher reliability

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



### Flexible Employment Scenarios

Suitable for various rooftop projects.

## WARRANTY

Product  
Warranty **30**  
years

Linear  
Power  
Warranty **30**  
years



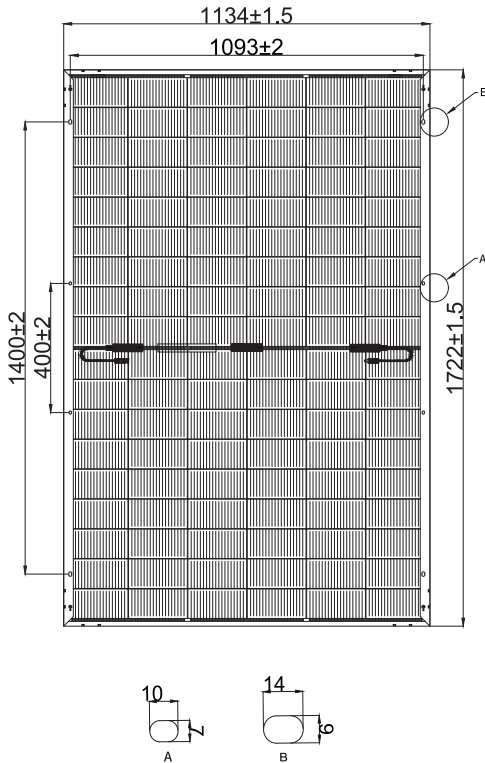
# Himalaya G10 Black Series 420-440W

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\*\*

		470W	475W	480W	485W	490W
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.

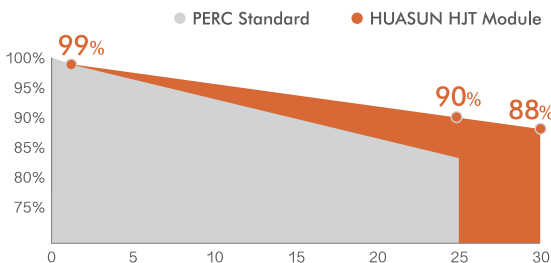
## Temperature Characteristics

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	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 0.375%, 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	26 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) 2.0mm anti-reflective solar glass   (B) 2.0mm 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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