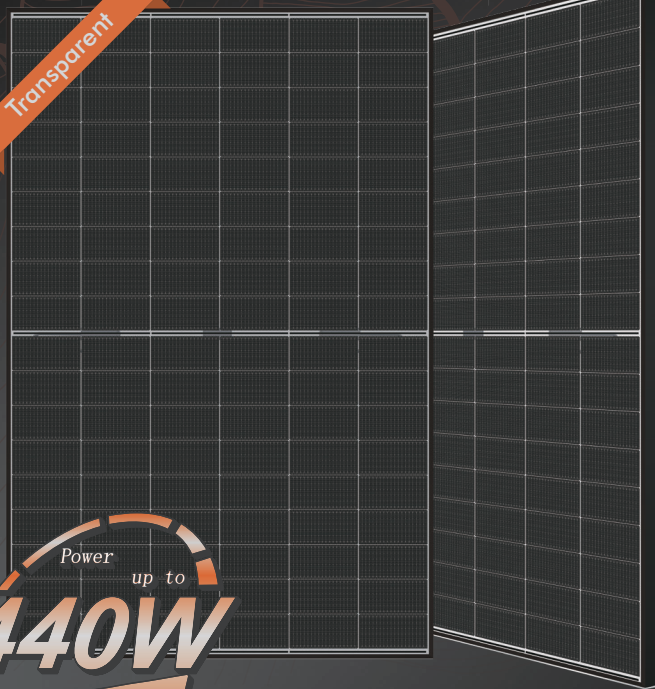


Himalaya G10 Black Series

420-440W

108-cell Bifacial Half Cell
Double-glass Solar Module



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 **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.



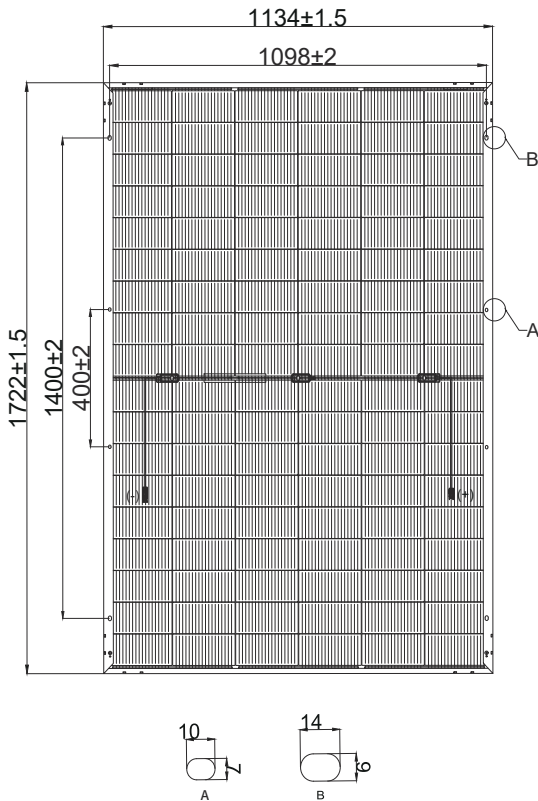
Himalaya G10 Black Series 420-440W

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 _{max})	420W	425W	430W	435W	440W
Module Efficiency (%)	21.51%	21.76%	22.02%	22.28%	22.53%
Optimum Operating Voltage (V _{mp})	34.07V	34.33V	34.60V	34.86V	35.12V
Optimum Operating Current (I _{mp})	12.33A	12.38A	12.43A	12.48A	12.53A
Open Circuit Voltage (V _{oc})	40.83V	41.10V	41.37V	41.64V	41.91V
Short Circuit Current (I _{sc})	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/m², cell temperature 25 °C, AM=1.5. Test uncertainty for P_{max} ± 3%.

BSTC**

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

**BSTC: Front side irradiation 1000W/m², back side reflection irradiation 135W/m², AM=1.5, ambient temperature 25 °C.

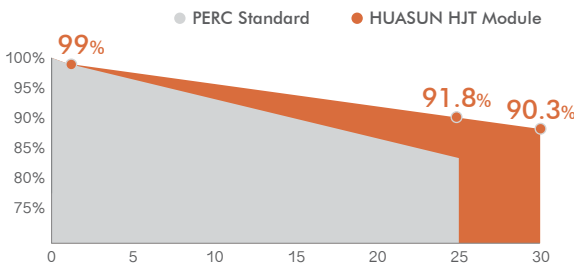
Temperature Characteristics

Nominal Operating Cell Temp. (NOCT)	44 °C ± 2 °C
Temperature Coefficient of P _{max}	-0.24%/°C
Temperature Coefficient of V _{oc}	-0.24%/°C
Temperature Coefficient of I _{sc}	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 0.3%, 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 ² , 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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