

Himalaya G10 Black Series

430-450W

108-cell Bifacial Half Cell
Double-glass Solar Module



Power up to
450W



HJT 3.0

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 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.



Ideal choice for residential rooftop

WARRANTY

Product
Warranty **15**
years

Linear
Power
Warranty **30**
years



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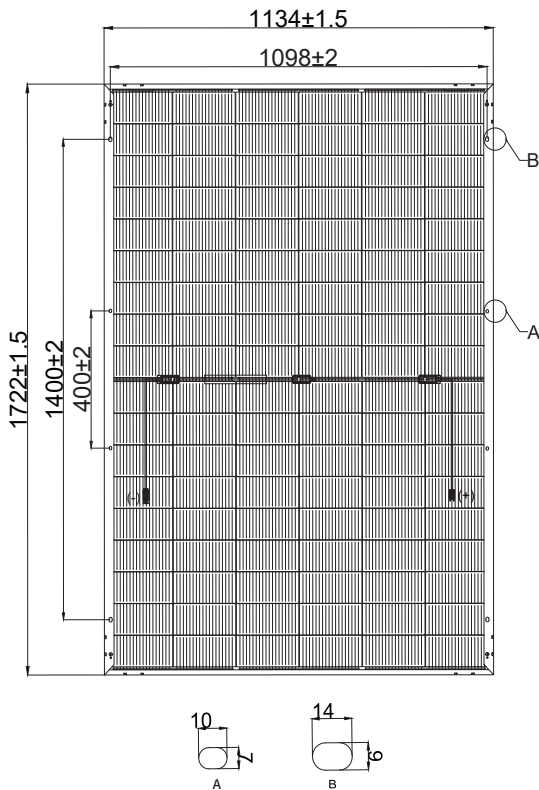
Himalaya G10 Black Series 430-450W

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	DSB430	DSB435	DSB440	DSB445	DSB450
Maximum Power (Pmax)	430W	435W	440W	445W	450W
Module Efficiency (%)	22.02%	22.28%	22.53%	22.79%	23.04%
Optimum Operating Voltage (Vmp)	34.60V	34.86V	35.12V	35.38V	35.63V
Optimum Operating Current (Imp)	12.43A	12.48A	12.53A	12.58A	12.63A
Open Circuit Voltage (Voc)	41.37V	41.64V	41.91V	42.18V	42.44V
Short Circuit Current (Isc)	12.95A	13.00A	13.05A	13.10A	13.15A
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/m², cell temperature 25 °C, AM=1.5. Tolerance of Pmax is within +/- 3%.

BSTC**

Maximum Power (Pmax)	475W	480W	485W	490W	495W
Optimum Operating Voltage (Vmp)	34.60V	34.86V	35.12V	35.38V	35.63V
Optimum Operating Current (Imp)	13.73A	13.77A	13.81A	13.85A	13.90A
Open Circuit Voltage (Voc)	41.37V	41.64V	41.91V	42.18V	42.44V
Short Circuit Current (Isc)	14.31A	14.34A	14.38A	14.42A	14.47A

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

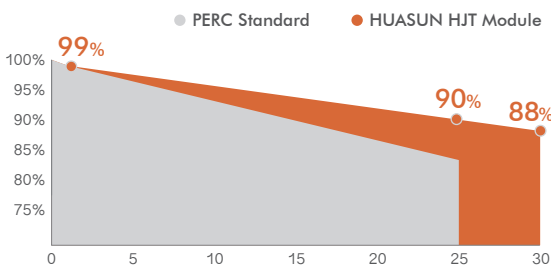
Temperature Characteristics

Nominal Operating Cell Temp. (NOCT)	44 °C ± 2 °C
Temperature Coefficient of Pmax	-0.24%/°C
Temperature Coefficient of Voc	-0.24%/°C
Temperature Coefficient of Isc	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 ² , 1200mm in length, length can be customized / UV resistant
Connectors Type	MC4-Evo 2
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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