



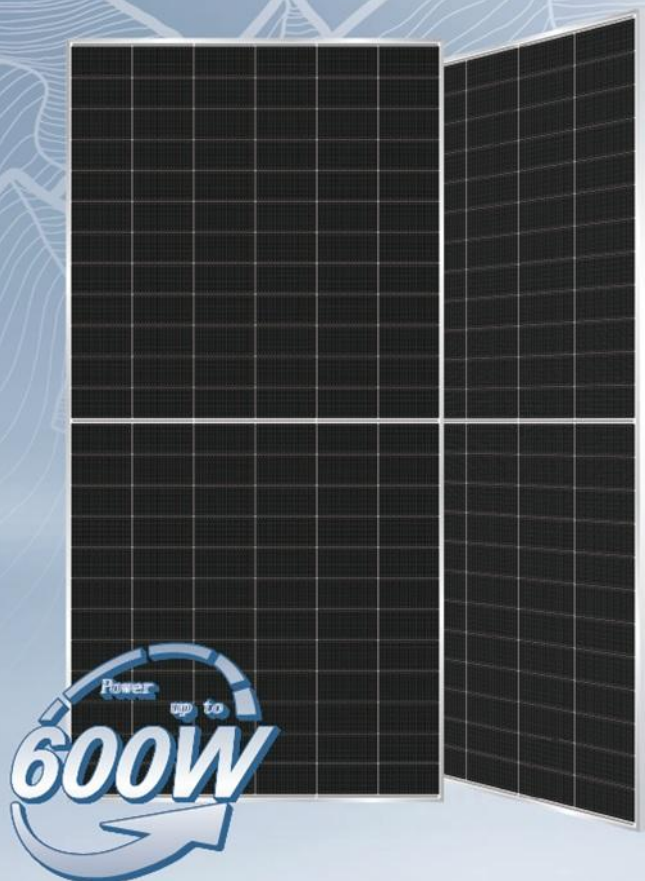
**CMB Solar**  
北极光太阳能



**HETERO  
JUNCTION  
TECHNOLOGY**

# Himalaya G10 Series 580-600W

144-cell Bifacial HJT 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.



## -0.24%/°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 extend module lifespan.



## Higher reliability

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



## Suitable for Utility Solar projects

## WARRANTY

Product  
Warranty **15**  
years

Linear  
Power  
Warranty **30**  
years



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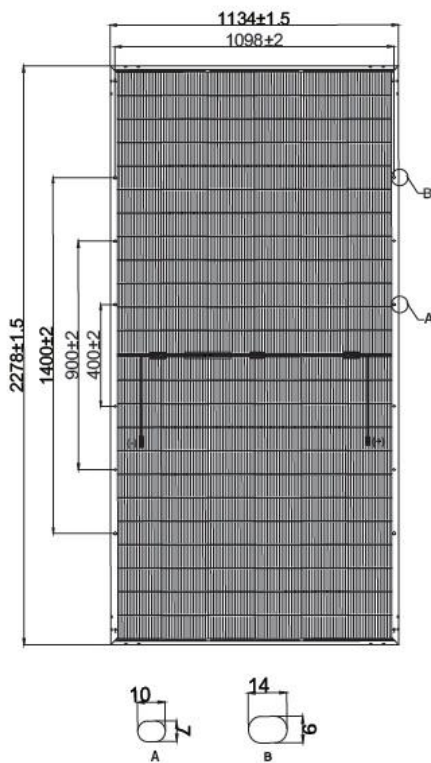
# Himalaya G10 Series 580-600W

144-cell Bifacial HJT Half Cell Solar Module

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

## Engineering Drawings

Unit: mm



## Electrical Characteristics (STC\*)

HS-182-B144	DS580	DS585	DS590	DS595	DS600
Maximum Power (P <sub>max</sub> )	580W	585W	590W	595W	600W
Module Efficiency (%)	22.45%	22.65%	22.84%	23.03%	23.23%
Optimum Operating Voltage (V <sub>mp</sub> )	45.00V	45.21V	45.42V	45.63V	45.84V
Optimum Operating Current (I <sub>mp</sub> )	12.89A	12.94A	12.99A	13.04A	13.09A
Open Circuit Voltage (V <sub>oc</sub> )	53.92V	54.12V	54.31V	54.50V	54.70V
Short Circuit Current (I <sub>sc</sub> )	13.35A	13.40A	13.45A	13.50A	13.55A
Operating Module Temperature	-40 to +85℃				
Maximum System Voltage	DC1500V (IEC)				
Maximum Series Fuse	25A				
Power Tolerance	0~+5W				
Bifaciality	85% ±5%				

\*STC: Irradiance 1000 W/m<sup>2</sup>, cell temperature 25℃, AM=1.5. Tolerance of P<sub>max</sub> is within ±3%.

## BSTC\*\*

	(P <sub>max</sub> )	640W	645W	650W	655W	660W
Maximum Power						
Optimum Operating Voltage (V <sub>mp</sub> )	45.00V	45.21V	45.42V	45.63V	45.84V	
Optimum Operating Current (I <sub>mp</sub> )	14.23A	14.27A	14.32A	14.36A	14.40A	
Open Circuit Voltage (V <sub>oc</sub> )	53.92V	54.12V	54.31V	54.50V	54.70V	
Short Circuit Current (I <sub>sc</sub> )	14.73A	14.77A	14.82A	14.86A	14.91A	

\*\*BSTC: Front side irradiation 1000W/m<sup>2</sup>, back side reflection irradiation 135W/m<sup>2</sup>, AM=1.5, ambient temperature 25℃.

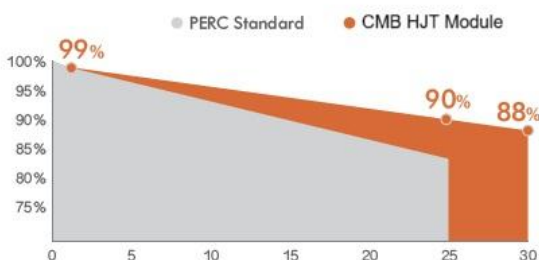
## Temperature Characteristics

Nominal Operating Cell Temp. (NOCT)	44℃ ±2℃
Temperature Coefficient of P <sub>max</sub>	-0.24%/℃
Temperature Coefficient of V <sub>oc</sub>	-0.24%/℃
Temperature Coefficient of I <sub>sc</sub>	0.04%/℃

## 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 CMB Standard warranty for details

## Mechanical Characteristics

Cell Type	HJT Mono 182×91.75mm
Cell Connection	144 (6×24)
Module Dimension	2278×1134×30 mm
Weight	32 kg
Junction Box	IP68
Output Cable	4mm <sup>2</sup> , 300mm in length, length can be customized / UV resistant
Connectors Type	MC4-Evo 2A/ PV-H4/ Z4S-abcd/ ST4
Frame	Anodised aluminum alloy
Front Load	5400 Pa
Rear Load	2400 Pa
Glass Thickness	Double glass, 2.0mm

## Shipping Configurations

	HC
Container Size	40'
Pallets Per Container	20
Modules Per Pallet (pcs)	36
Modules Per Container (pcs)	720



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