



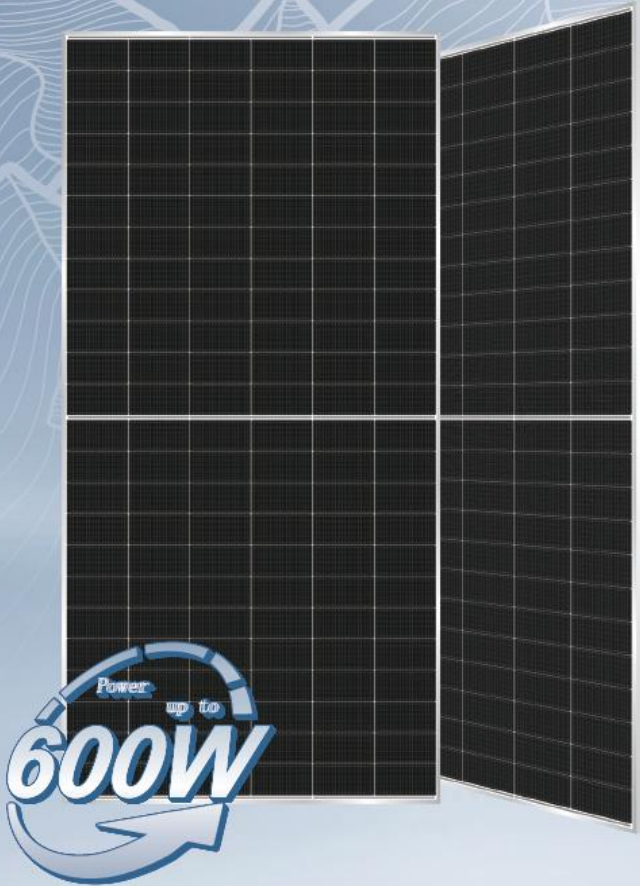
HENERGY SOLAR
恒能光伏



**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%/ $^{\circ}\text{C}$ 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 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



HENERGY SOLAR
恒能光伏

www.cnpsolar.com

E: sales@cnpsolar.com

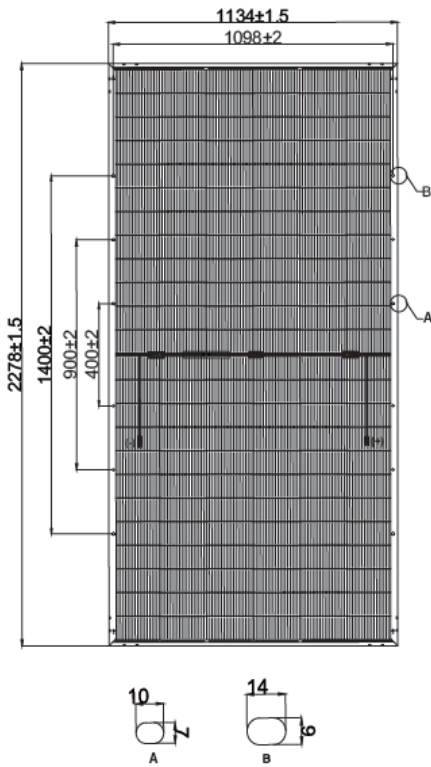
Himalaya G10 Series 580-600W

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 (Pmax) | 580W | 585W | 590W | 595W | 600W |
| Module Efficiency (%) | 22.45% | 22.65% | 22.84% | 23.03% | 23.23% |
| Optimum Operating Voltage (Vmp) | 45.00V | 45.21V | 45.42V | 45.63V | 45.84V |
| Optimum Operating Current (Imp) | 12.89A | 12.94A | 12.99A | 13.04A | 13.09A |
| Open Circuit Voltage (Voc) | 53.92V | 54.12V | 54.31V | 54.50V | 54.70V |
| Short Circuit Current (Isc) | 13.35A | 13.40A | 13.45A | 13.50A | 13.55A |
| 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**

| | 640W | 645W | 650W | 655W | 660W |
|---------------------------------|--------|--------|--------|--------|--------|
| Maximum Power (Pmax) | 640W | 645W | 650W | 655W | 660W |
| Optimum Operating Voltage (Vmp) | 45.00V | 45.21V | 45.42V | 45.63V | 45.84V |
| Optimum Operating Current (Imp) | 14.23A | 14.27A | 14.32A | 14.36A | 14.40A |
| Open Circuit Voltage (Voc) | 53.92V | 54.12V | 54.31V | 54.50V | 54.70V |
| Short Circuit Current (Isc) | 14.73A | 14.77A | 14.82A | 14.86A | 14.91A |

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

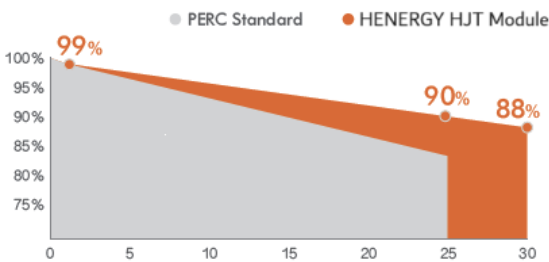
Temperature Characteristics

| | |
|-------------------------------------|--------------|
| 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 HENERGY 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 ² , 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

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