

Everest G12R Series 430-450W

96-cell Bifacial HJT Half Cell
Double-glass Solar Module

HJT Technology

Combining gettering process and double-sided $\mu\text{-Si}$ to maximize cell efficiency and module power.

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 solar rooftop system

Suitable for various rooftop projects.

WARRANTY

Product
Warranty **15**
years

Linear
Power
Warranty **30**
years



ANHUI HUASUN ENERGY CO., LTD.

All rights reserved © 2020-2024
File No. HS-T2-SM-0018 Ver. 2.0 Page 1 of 2

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.



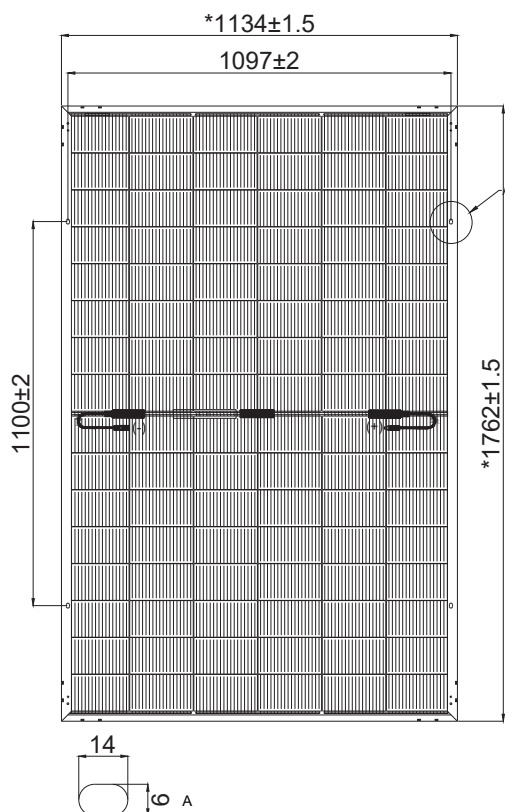
Everest G12R Series 430-450W

96-cell Bifacial HJT Half Cell Solar Module

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

Engineering Drawings

Unit: mm



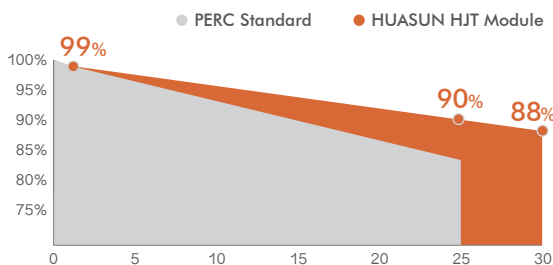
Temperature Characteristics

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

Electrical Characteristics (STC*)

HS-210R-B96	DSN430	DSN435	DSN440	DSN445	DSN450
Maximum Power (Pmax)	430W	435W	440W	445W	450W
Module Efficiency (%)	21.52%	21.77%	22.02%	22.27%	22.52%
Optimum Operating Voltage (Vmp)	30.13V	30.27V	30.42V	30.57V	30.72V
Optimum Operating Current (Imp)	14.28A	14.37A	14.47A	14.56A	14.66A
Open Circuit Voltage (Voc)	35.92V	36.08V	36.24V	36.40V	36.56V
Short Circuit Current (Isc)	14.97A	15.07A	15.17A	15.26A	15.36A
Operating Module Temperature	-40 to +85 °C				
Maximum System Voltage	DC1500V (IEC)				
Maximum Series Fuse	30A				
Power Tolerance	0~+5W				
Bifaciality	90% ± 5%				

*STC: Irradiance 1000 W/m², cell temperature 25 °C, AM=1.5. Test uncertainty for Pmax ± 3%

BSTC**/NOCT**

Maximum Power (Pmax)	479W	484W	490W	496W	501W
Optimum Operating Voltage (Vmp)	30.23V	30.38V	30.52V	30.68V	30.82V
Optimum Operating Current (Imp)	15.86A	15.96A	16.07A	16.17A	16.28A
Open Circuit Voltage (Voc)	36.04V	36.21V	36.37V	36.53V	36.69V
Short Circuit Current (Isc)	16.69A	16.80A	16.91A	17.01A	17.12A

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

Maximum Power (Pmax)	327W	330W	334W	338W	342W
Optimum Operating Voltage (Vmp)	28.66V	28.80V	28.94V	29.08V	29.22V
Optimum Operating Current (Imp)	11.41A	11.49A	11.56A	11.64A	11.71A
Open Circuit Voltage (Voc)	34.28V	34.44V	34.59V	34.74V	34.89V
Short Circuit Current (Isc)	11.97A	12.04A	12.12A	12.20A	12.27A

**NOCT: Irradiance 800W/m², Ambient Temperature 20 °C, Wind Speed 1m/s.

Mechanical Characteristics

Cell Type	HJT Mono 182 × 105mm
Cell Connection	96 (6 × 16)
Module Dimension	1762 x 1134 x 30 mm
Weight	23 kg
Junction Box	IP68
Output Cable	4mm², 300mm 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, 1.6mm

Shipping Configurations

Container Size	40'HQ
Pallets Per Container (pcs)	26
Modules Per Pallet (pcs)	36
Modules Per Container	936

ANHUI HUASUN ENERGY CO., LTD.

All rights reserved © 2020-2024

NO.99 Qingliu Road, Economic and Technological Development Zone, Xuancheng, Anhui, China
 Tel: 0086-563-3318095 www.huasunsolar.com
 sales@huasunsolar.com customerservice@huasunsolar.com