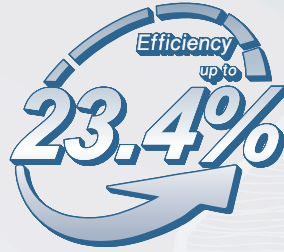


# Everest G12R Series 495-520W

**108-cell** Bifacial HJT Half-cell  
Double-glass Solar Module



**HJT-0BB Technology**  
Better current collection, better low-light performance, and higher power generation.



**Sealing with PIB**  
Stronger moisture resistance, greater air impermeability to extend module lifespan.



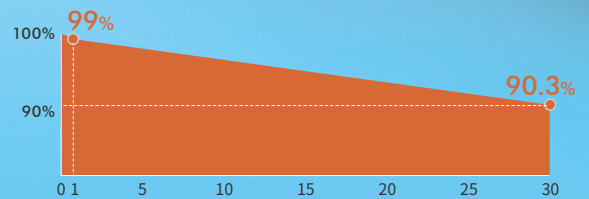
**Ideal Choice for Rooftop System**  
Transparent gap film, bifacial power generation, suitable for various rooftop projects.



\*Refer to (Limited Warranty for Heterojunction Photovoltaic Modules)

**Complete System and Product Certifications:**

- IEC61215, IEC61730
- ISO9001: 2015 Quality Management System
- ISO14001: 2015 Environment Management System
- ISO45001: 2018 Occupational Health and Safety
- IEC62941: 2019 Terrestrial Photovoltaic (PV) Modules-quality System for PV Module Manufacturing
- IEC/TS62994: 2019 Photovoltaic (PV) Modules Through the Life Cycle-environmental Health and Safety (EH&S) Risk Assessment-general Principles and Nomenclature



\* First year power degradation  $\leq 1\%$   
 \* Annual power degradation (2-30 year)  $\leq 0.3\%$   
 \* Power output until the 30th year  $\geq 90.3\%$

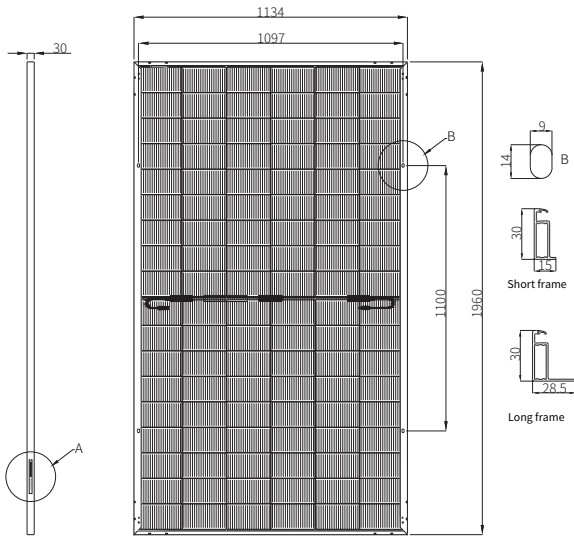
# HSN-210R-B108 495-520W

108-Half-Cell Bifacial HJT Module

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

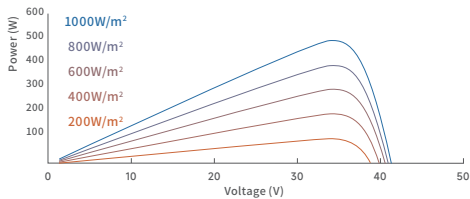
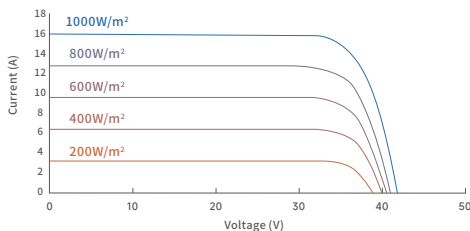
## Engineering Drawings

Unit: mm



## I-V Curve

(HSN-210R-B108DSN510)



## Temperature Coefficients

Temperature Coefficient of Pmax	-0.24%/°C
Temperature Coefficient of Voc	-0.22%/°C
Temperature Coefficient of Isc	+0.04%/°C

## Operating Conditions

Nominal Operating Cell Temp.	44±2°C
Operating Temperature	-40~+85°C
Maximum System Voltage	DC1500V (IEC)
Maximum Series Fuse Rating	30A
Tolerance of Pmax	0~+3%
Power Selection	0~+5W
Bifacial Gain	10~15%
Bifaciality coefficient of Pmax	90±5%
Bifaciality coefficient of Voc	95~100%
Bifaciality coefficient of Isc	90±5%
Safety Class	Class II
Fire Safety Class	Class C according to UL790

## Mechanical Characteristics

Cell Type	HJT
No. of Cells	108 (6x18)
Dimensions	1960x1134x30mm
Weight	27.4 kg
Junction Box	IP68
Cable	4mm <sup>2</sup> ; 1250mm or customized; UV resistant
Connector	MC4 / MC4-Evo2 / MC4-Evo2A / PV-H4 / Z4S-abcd / PV-ZH202B
Connector Manufacturer	Stäubli/huayu/Zerur/Zhonghuan
Frame	Anodized aluminum alloy frame
Max Static Load (front side/rear side)	5400Pa / 2400Pa
Glass	Dual glass, 2.0mm

## Electrical Characteristics

### STC

HSN-210R-B108	DSN495	DSN500	DSN505	DSN510	DSN515	DSN520
Maximum Power (Pmax/W)	495	500	505	510	515	520
Module Efficiency (%)	22.3	22.5	22.7	22.9	23.2	23.4
Voltage at Pmax (Vmp/V)	34.05	34.16	34.27	34.38	34.49	34.60
Current at Pmax (Imp/A)	14.54	14.64	14.74	14.84	14.94	15.04
Open Circuit Voltage (Voc/V)	40.65	40.76	40.87	40.98	41.09	41.20
Short Circuit Current (Isc/A)	15.37	15.48	15.59	15.70	15.81	15.92

STC: AM1.5, 1000W/m<sup>2</sup>, 25°C.

### BNPI

	555	560	566	571	577	583
Maximum Power (Pmax/W)	555	560	566	571	577	583
Voltage at Pmax (Vmp/V)	34.17	34.28	34.39	34.50	34.61	34.72
Current at Pmax (Imp/A)	16.25	16.36	16.47	16.58	16.69	16.80
Open Circuit Voltage (Voc/V)	40.79	40.90	41.01	41.12	41.23	41.34
Short Circuit Current (Isc/A)	17.24	17.36	17.48	17.61	17.73	17.85

BNPI: AM1.5, 1000W/m<sup>2</sup>, 135W/m<sup>2</sup>, 25°C.

### NOCT

	377	381	385	389	393	397
Maximum Power (Pmax/W)	377	381	385	389	393	397
Voltage at Pmax (Vmp/V)	32.53	32.63	32.73	32.83	32.93	33.03
Current at Pmax (Imp/A)	11.62	11.70	11.78	11.86	11.94	12.02
Open Circuit Voltage (Voc/V)	38.80	38.90	39.01	39.11	39.22	39.32
Short Circuit Current (Isc/A)	12.28	12.37	12.46	12.55	12.64	12.72

NOCT: AM1.5, 800W/m<sup>2</sup>, 20°C, 1m/s.

## Packaging

	40HQ
Modules Per Pallet	36
Pallets Per Container	24
Modules Per Container	864



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