

Everest G12R Series 495-520W

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



HJT-0BB Technology

Shorter current transport path, better low-light performance, and higher power generation.



Sealing with PIB

Stronger moisture resistance, greater air impermeability to extent module lifespan.



Ideal Choice for Rooftop Photovoltaic Systems

Bifacial power generation, suitable for residential, industrial and commercial rooftop projects.



Complete System and Product Certifications:

IEC61215, IEC61730

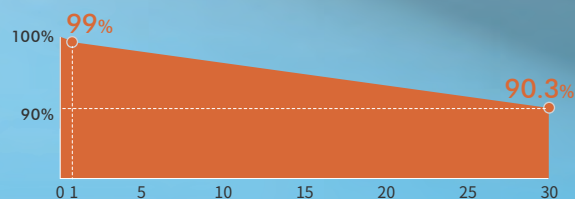
ISO9001: 2015 Quality Management System

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 $\geq 90.3\%$

For reference only

HSN-210R-B108

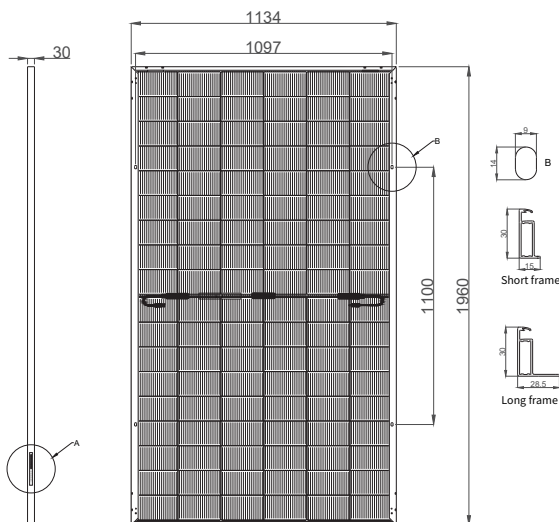
495-520W

108-Half-Cell Bifacial HJT Module

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

Engineering Drawings

Unit: mm



Mechanical Characteristics

Cell Type	HJT
No. of Cells	108 (6x18)
Dimensions	1960x1134x30mm
Weight	27.1 kg
Junction Box	IP68
Cable	4mm ² ; ±1250mm or customized; UV resistant
Connector	PV-H1 / MC4-Evo 2 / Others
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/m², 25°C.

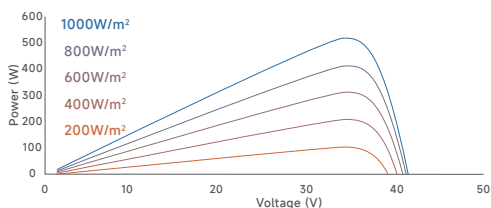
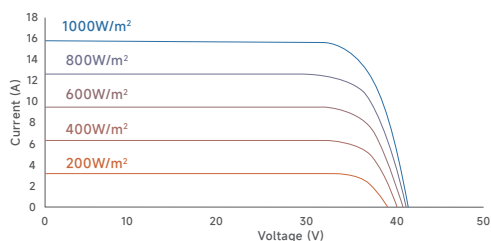
BNPI

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/m², 135W/m², 25°C.

I-V Curve

(HSN-210R-B108DSN520)



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~+70°C
Maximum System Voltage	DC1500V (IEC)
Maximum Series Fuse Rating	30A
Tolerance of Pmax	0~+3%
Power Selection	0~+5W
Bifaciality	90±5%
Safety Class	Class II

NOCT

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/m², 20°C, 1m/s.

Packaging

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



ANHUI HUASUN ENERGY CO., LTD. All rights reserved © 2020-2026

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

With the development of technology and the iterative updating of products, the technical specification of products released by HUASUN in the future may differ from those listed in this datasheet. HUASUN reserves the right to change the technical specification of the products at any time without prior notice, and the technical specification of the products ordered by the customers are subject to the technical specification agreed upon in the legally binding contract signed by both parties. The final interpretation of the datasheet is reserved by HUASUN.

2.0_20251224_D