

Everest G12R Series 500-525W

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



HJT 3.0 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 extend module lifespan.

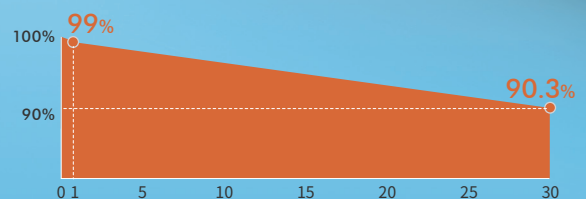


Ideal Choice for Rooftop System
Suitable for various rooftop projects.



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 $\geq 90.3\%$

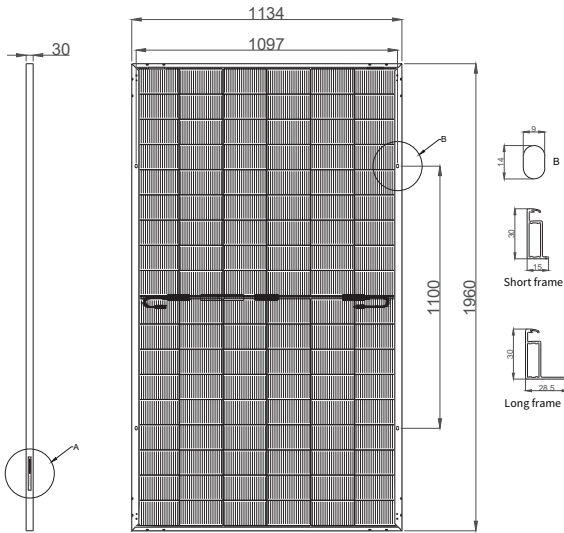
HSN-210R-B108 500-525W

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	MC4 / MC4-Evo2 / MC4-Evo2A / PV-H4 / Z4S-abcd / PV-ZH202B
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	DS500	DS505	DS510	DS515	DS520	DS525
Maximum Power (Pmax/W)	500	505	510	515	520	525
Module Efficiency (%)	22.5	22.7	22.9	23.2	23.4	23.6
Voltage at Pmax (Vmp/V)	34.16	34.27	34.38	34.49	34.60	34.71
Current at Pmax (Imp/A)	14.64	14.74	14.84	14.94	15.04	15.14
Open Circuit Voltage (Voc/V)	40.76	40.87	40.98	41.09	41.20	41.31
Short Circuit Current (Isc/A)	15.48	15.59	15.70	15.81	15.92	16.03

STC: AM1.5, 1000W/m², 25°C.

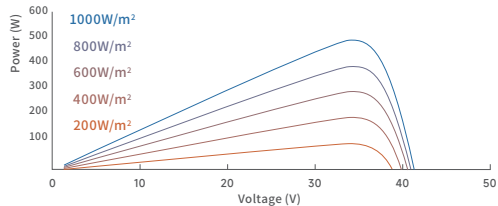
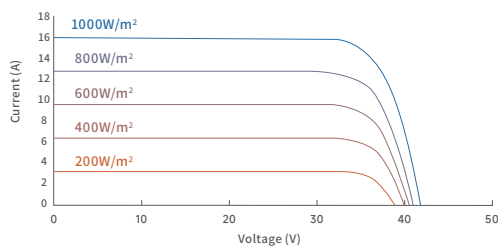
BNPI

Maximum Power (Pmax/W)	560	566	571	577	583	588
Voltage at Pmax (Vmp/V)	34.28	34.39	34.50	34.61	34.72	34.83
Current at Pmax (Imp/A)	16.36	16.47	16.58	16.69	16.80	16.90
Open Circuit Voltage (Voc/V)	40.90	41.01	41.12	41.23	41.34	41.45
Short Circuit Current (Isc/A)	17.36	17.48	17.61	17.73	17.85	17.98

BNPI: AM1.5, 1000W/m², 135W/m², 25°C.

I-V Curve

(HSN-210R-B108DS510)



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
Bifaciality	90±5%
Safety Class	Class II

NOCT

Maximum Power (Pmax/W)	381	385	389	393	397	400
Voltage at Pmax (Vmp/V)	32.63	32.73	32.83	32.93	33.03	33.13
Current at Pmax (Imp/A)	11.70	11.78	11.86	11.94	12.02	12.10
Open Circuit Voltage (Voc/V)	38.90	39.01	39.11	39.22	39.32	39.43
Short Circuit Current (Isc/A)	12.37	12.46	12.55	12.64	12.72	12.81

NOCT: AM1.5, 800W/m², 20°C, 1m/s.

Packaging

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



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