

Everest G12R Series 490-515W

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



HJT Technology

Combining gettering process and $\mu\text{c-Si}$ technology to ensure higher cell efficiency and higher module power



Up to 95% Bifaciality

Natural symmetrical bifacial structure bringing more energy yield from the backside.



Sealing with PIB

Integrated coating frames ensuring modules passing the IEC salt-mist test level 8



Ideal choice for rooftop system

Suitable for various rooftop projects



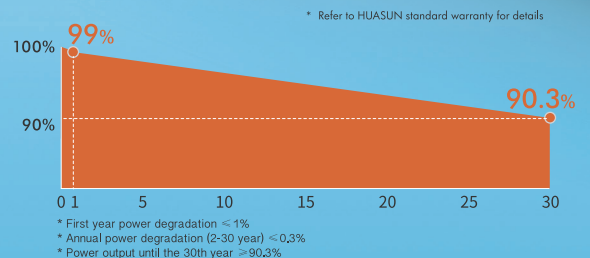
WARRANTY

Product
Warranty **15**
years

Linear
Power
Warranty **30**
years

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



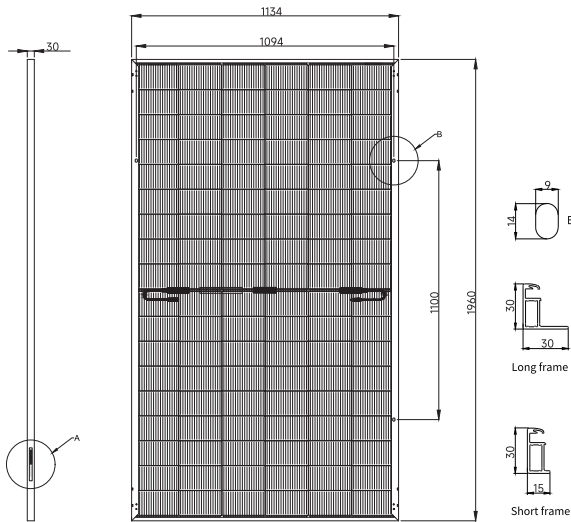
HS-210R-B108 490-515W

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	27.4 kg
Junction Box	IP68
Cable	4mm ² ; 1250mm or customized; UV resistant
Connector	MC4 / MC4-Evo2A / PV-H4 / Z4S-abcd / ST4
Frame	Anodized aluminum alloy frame
Max Static Load (front side/rear side)	5400Pa / 2400Pa
Glass	Dual glass, 2.0mm

Electrical Characteristics

STC

HS-210R-B108	DSB 490	DSB 495	DSB 500	DSB 505	DSB 510	DSB 515
Maximum Power (Pmax/W)	490	495	500	505	510	515
Module Efficiency (%)	22.0	22.3	22.5	22.7	22.9	23.2
Maximum Power Voltage (Vmp/V)	33.94	34.05	34.16	34.27	34.38	34.49
Maximum Power Current (Imp/A)	14.44	14.54	14.64	14.74	14.84	14.94
Open Circuit Voltage (Voc/V)	40.54	40.65	40.76	40.87	40.98	41.09
Short Circuit Current (Isc/A)	15.26	15.37	15.48	15.59	15.70	15.81

STC: AM1.5, 1000W/m², 25°C.

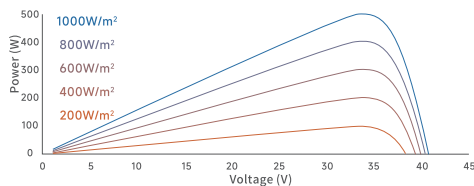
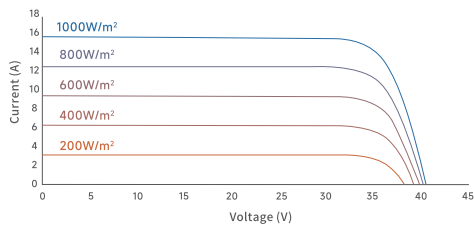
BSTC

Maximum Power (Pmax/W)	549	555	560	566	571	577
Maximum Power Voltage (Vmp/V)	34.06	34.17	34.28	34.39	34.50	34.61
Maximum Power Current (Imp/A)	16.14	16.25	16.36	16.47	16.58	16.69
Open Circuit Voltage (Voc/V)	40.68	40.79	40.90	41.01	41.12	41.23
Short Circuit Current (Isc/A)	17.11	17.24	17.36	17.48	17.61	17.73

BSTC: AM1.5, 1000W/m², 135W/m², 25°C.

I-V Curve

(HS-210R-B108DSB495)



Temperature Characteristics

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)	374	377	381	385	389	393
Maximum Power Voltage (Vmp/V)	32.42	32.53	32.63	32.73	32.83	32.93
Maximum Power Current (Imp/A)	11.54	11.62	11.70	11.78	11.86	11.94
Open Circuit Voltage (Voc/V)	38.69	38.80	38.90	39.01	39.11	39.22
Short Circuit Current (Isc/A)	12.20	12.28	12.37	12.46	12.55	12.64

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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