

# Everest G12R Series 505-530W

108-cell HJT Half-cell 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

All black aesthetic appearance, suitable for residential, industrial and commercial rooftop projects.

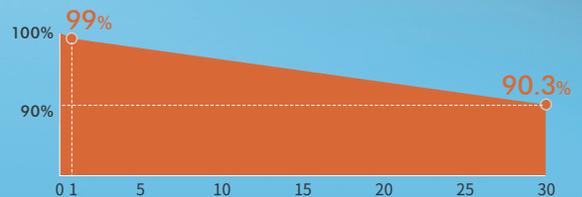
Aesthetic Black

For reference only



#### 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

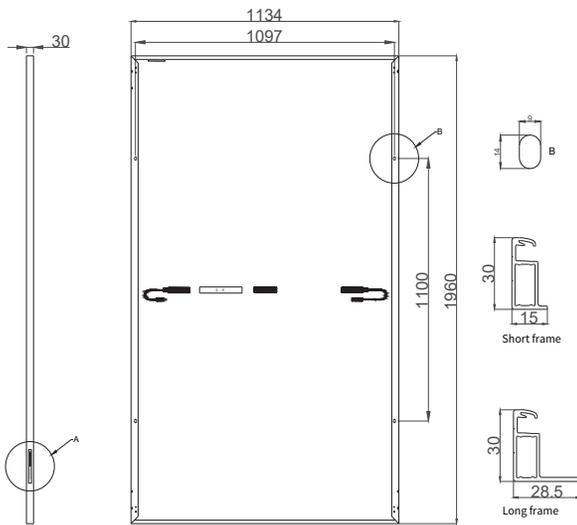


\* First year power degradation  $\leq 1\%$   
 \* Annual power degradation (2-30 year)  $\leq 0.3\%$   
 \* Power output until the 30th year  $\geq 90.3\%$

- 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 <sup>2</sup> ; ±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-S108	DSB505	DSB510	DSB515	DSB520	DSB525	DSB530
Maximum Power (Pmax/W)	505	510	515	520	525	530
Module Efficiency (%)	22.7	22.9	23.2	23.4	23.6	23.9
Voltage at Pmax (Vmp/V)	34.27	34.38	34.49	34.60	34.71	34.82
Current at Pmax (Imp/A)	14.74	14.84	14.94	15.04	15.14	15.24
Open Circuit Voltage (Voc/V)	40.87	40.98	41.09	41.20	41.31	41.42
Short Circuit Current (Isc/A)	15.59	15.70	15.81	15.92	16.03	16.14

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

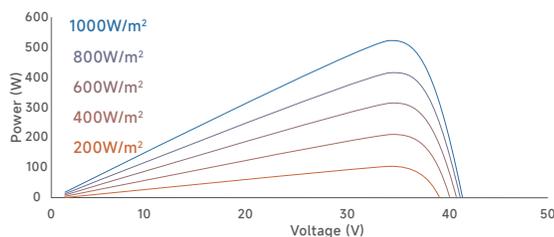
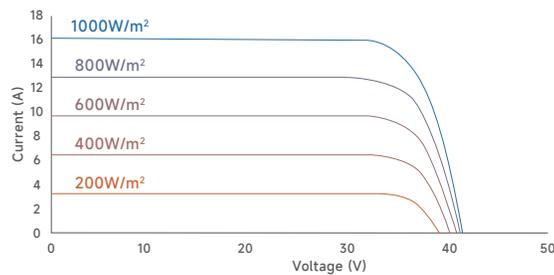
### NOCT

Maximum Power (Pmax/W)	385	389	393	397	400	404
Voltage at Pmax (Vmp/V)	32.73	32.83	32.93	33.03	33.13	33.23
Current at Pmax (Imp/A)	11.78	11.86	11.94	12.02	12.10	12.18
Open Circuit Voltage (Voc/V)	39.01	39.11	39.22	39.32	39.43	39.53
Short Circuit Current (Isc/A)	12.46	12.55	12.64	12.72	12.81	12.90

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

## I-V Curve

(HSN-210R-S108DSB530)



## 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
Safety Class	Class II

## Temperature Coefficients

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

## Packaging

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



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