

Everest G12R Series 445-470W

96-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 module, suitable for residential, industrial and commercial rooftop projects.

Aesthetic Black

For reference only



Complete System and Product Certifications:

IEC61215, IEC61730

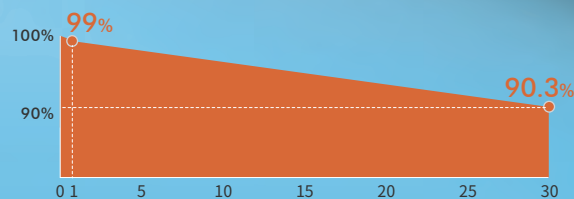
ISO9001: 2015 Quality Management System

ISO14001: 2015 Environment Management System

ISO45001: 2018 Occupational Health and Safety

IEC62941: 2019 Terrestrial Photovoltaic (PV) Modules-quality System for PV Module Manufacturing

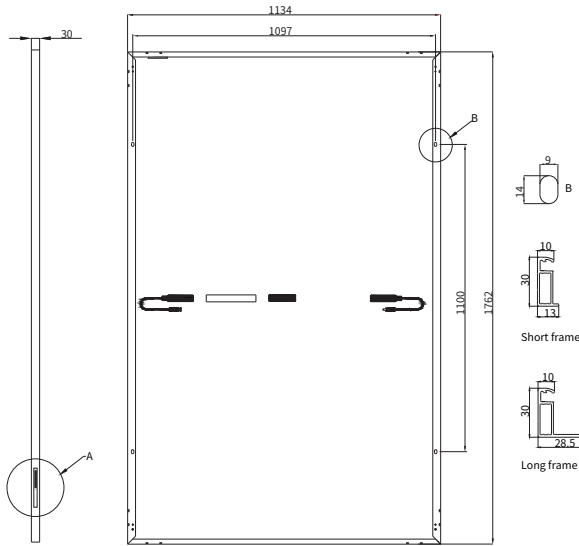
IEC/TS62994: 2019 Photovoltaic (PV) Modules Through the Life Cycle-environmental Health and Safety (EH&S) Risk Assessment-general Principles and Nomenclature



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

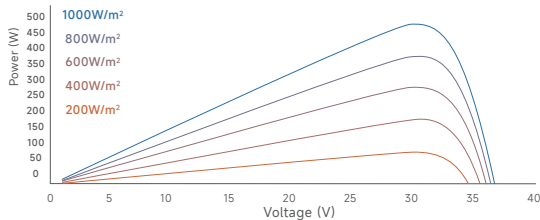
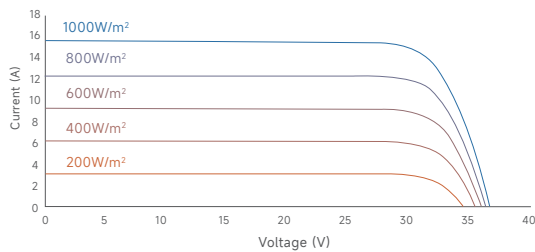
Engineering Drawings

Unit: mm



I-V Curve

(HSN-210R-S96DSB470)



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
Safety Class	Class II

Mechanical Characteristics

Cell Type	HJT
No. of Cells	96 (6x16)
Dimensions	1762x1134x30mm
Weight	21.6 kg
Junction Box	IP68
Cable	4mm²; ±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, 1.6mm

Electrical Characteristics

STC

HSN-210R-S96	DSB445	DSB450	DSB455	DSB460	DSB465	DSB470
Maximum Power (Pmax/W)	445	450	455	460	465	470
Module Efficiency (%)	22.3	22.5	22.8	23.0	23.3	23.5
Voltage at Pmax (Vmp/V)	30.72	30.83	30.94	31.05	31.16	31.27
Current at Pmax (Imp/A)	14.49	14.60	14.71	14.82	14.93	15.04
Open Circuit Voltage (Voc/V)	36.62	36.72	36.82	36.92	37.02	37.12
Short Circuit Current (Isc/A)	15.42	15.53	15.64	15.75	15.86	15.97

STC: AM1.5, 1000W/m², 25°C.

NOCT

Maximum Power (Pmax/W)	339	343	347	351	355	358
Voltage at Pmax (Vmp/V)	29.34	29.45	29.55	29.65	29.76	29.86
Current at Pmax (Imp/A)	11.58	11.67	11.76	11.84	11.93	12.02
Open Circuit Voltage (Voc/V)	34.95	35.05	35.14	35.24	35.33	35.43
Short Circuit Current (Isc/A)	12.32	12.41	12.50	12.59	12.68	12.76

NOCT: AM1.5, 800W/m², 20°C, 1m/s.

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	26
Modules Per Container	936



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