HUASUN | HETEROJUNCTION TECHNOLOGY

Everest G12R Series

445-470W

96-cell HJT Half-cell Solar Module

Efficiency up to 23.5%

HJT 3.0 HJT-0BB Technology

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

Sealing with PIB

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

Ideal Choice for Residential Roofs

Designed with aesthetics in mind, Ideal choice for residential rooftop projects.

15 YEARS PRODUCT WARRANTY

30 YEARS POWER WARRANTY

Complete System and Product Certifications:

IEC61215, IEC61730

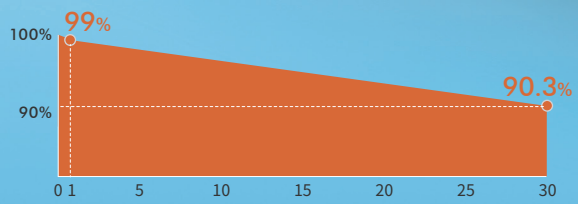
ISO9001: 2015 Quality Management System

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 ⩽1%
* Annual power degradation (2-30 year) ⩽0.3%
* Power output until the 30th year ⩾90.3%

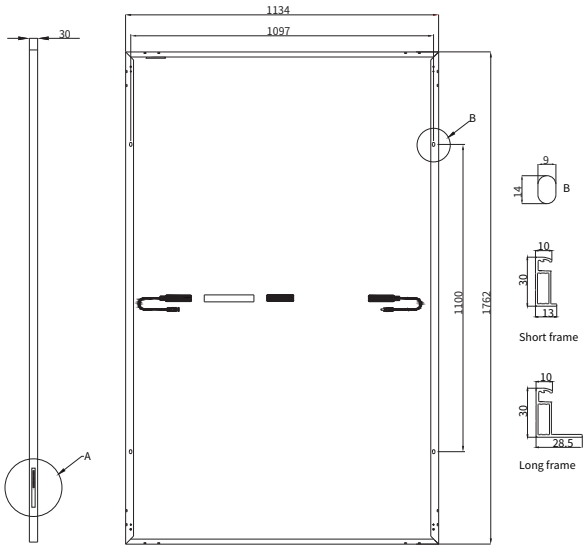
HSN-210R-S96 445-470W

96-Half-Cell HJT Module

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

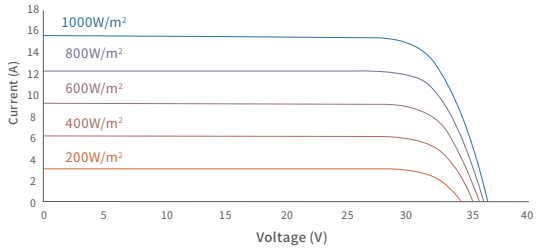
Engineering Drawings

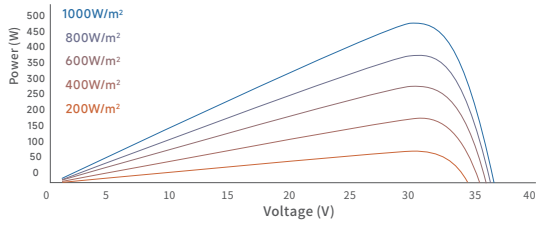
Unit: mm



I-V Curve

(HSN-210R-S96DSB450)





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

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	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, 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
Maximum Power Voltage (Vmp/V)	30.72	30.83	30.94	31.05	31.16	31.27
Maximum Power Current (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
Maximum Power Voltage (Vmp/V)	29.34	29.45	29.55	29.65	29.76	29.86
Maximum Power Current (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

	40HQ
Modules Per Pallet	36
Pallets Per Container	26
Modules Per Container	936

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