HUASUN | HETEROJUNCTION TECHNOLOGY

Everest G12R Series

430-455W

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

Efficiency up to 22.8%

HJT Technology
Combining gettering process and μc-Si technology to ensure higher cell efficiency and higher module power

Up to 95% Bifaciality
Natrual 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

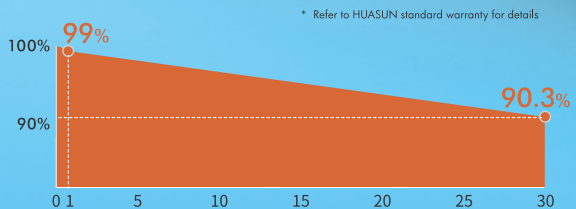
Product Warranty **15** years

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

* Refer to HUASUN standard warranty for details



* First year power degradation ≤1%
* Annual power degradation (2-30 year) ≤0.3%
* Power output until the 30th year ≥90.3%

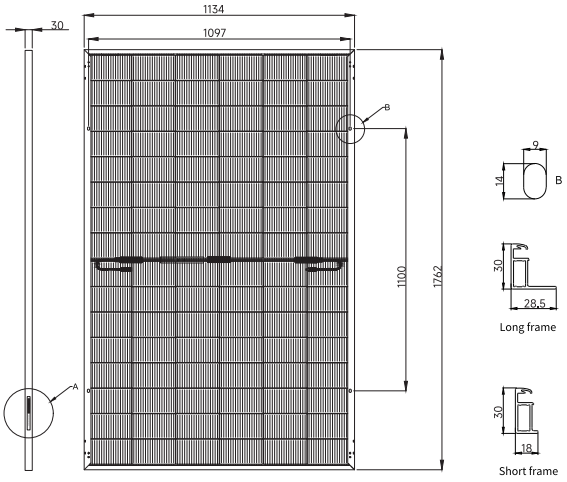
HS-210R-B96 430-455W

96-Half-Cell Bifacial HJT Module

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

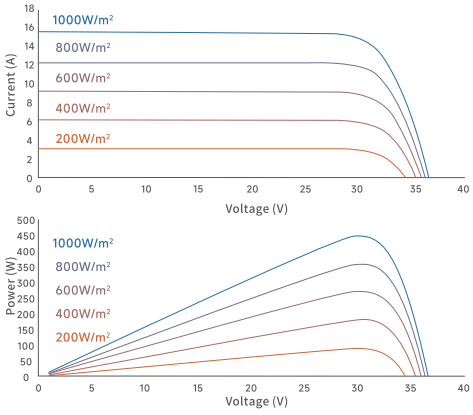
Engineering Drawings

Unit: mm



I-V Curve

(HS-210R-B96DSB445)



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℃
Operating Temperature	-40~+85℃
Maximum System Voltage	DC1500V (IEC)
Maxiumu Series Fuse Rating	30A
Tolerance of Pmax	0~+3%
Power Selection	0~+5W
Bifaciality	90±5%
Safety Class	Class II

Mechanical Characteristics

Cell Type	HJT
No. of Cells	96 (6x16)
Dimensions	1762x1134x30mm
Weight	21.8 kg
Junction Box	IP68
Cable	4mm²; 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, 1.6mm

Electrical Characteristics

STC

HS-210R-B96	DSB430	DSB435	DSB440	DSB445	DSB450	DSB455
Maximum Power (Pmax/W)	430	435	440	445	450	455
Module Efficiency (%)	21.5	21.8	22.0	22.3	22.5	22.8
Maximum Power Voltage (Vmp/V)	30.39	30.50	30.61	30.72	30.83	30.94
Maximum Power Current (Imp/A)	14.16	14.27	14.38	14.49	14.60	14.71
Open Circuit Voltage (Voc/V)	36.32	36.42	36.52	36.62	36.72	36.82
Short Circuit Current (Isc/A)	15.09	15.20	15.31	15.42	15.53	15.64

STC: AM1.5, 1000W/m², 25℃.

BSTC

Maximum Power (Pmax/W)	482	487	493	499	504	510
Maximum Power Voltage (Vmp/V)	30.50	30.61	30.72	30.83	30.94	31.05
Maximum Power Current (Imp/A)	15.81	15.94	16.07	16.19	16.31	16.44
Open Circuit Voltage (Voc/V)	36.45	36.55	36.65	36.75	36.85	36.95
Short Circuit Current (Isc/A)	16.92	17.05	17.17	17.29	17.42	17.54

BSTC: AM1.5, 1000W/m², 135W/m², 25℃.

NOCT

Maximum Power (Pmax/W)	328	332	335	339	343	347
Maximum Power Voltage (Vmp/V)	29.01	29.12	29.23	29.34	29.45	29.55
Maximum Power Current (Imp/A)	11.32	11.40	11.49	11.58	11.67	11.76
Open Circuit Voltage (Voc/V)	34.67	34.76	34.86	34.95	35.05	35.14
Short Circuit Current (Isc/A)	12.06	12.15	12.24	12.32	12.41	12.50

NOCT: AM1.5, 800W/m², 20℃, 1m/s.

Packaging

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

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