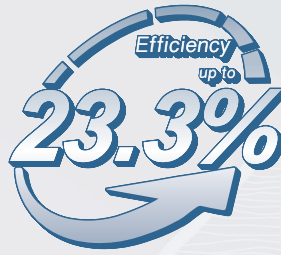


Everest G12R Series 440-465W

96-cell HJT Half Cell Solar Module



HJT Technology

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



Sealing with PIB

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



Ideal choice for solar rooftop system

Suitable for various rooftop projects



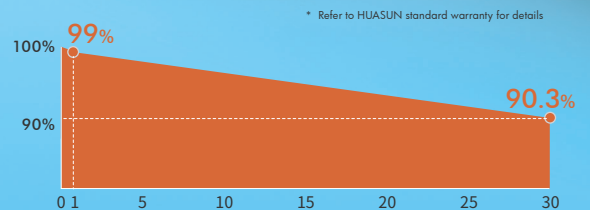
WARRANTY

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

HS-210R-S96

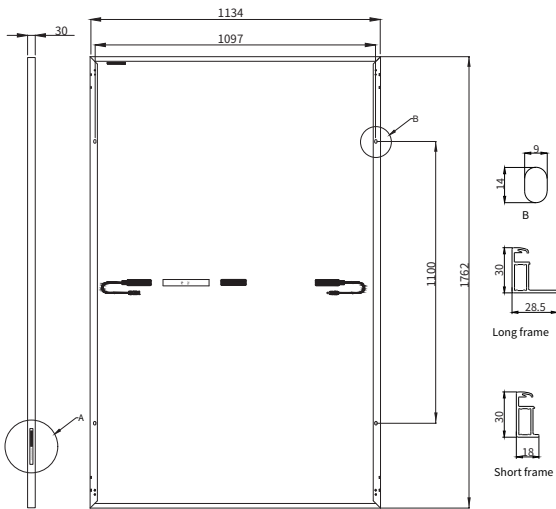
96-Half-Cell HJT Module

440-465W

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

Engineering Drawings

Unit: mm



Mechanical Characteristics

Cell Type	HJT
No. of Cells	96 (6x16)
Dimensions	1762x1134x30mm
Weight	21.8 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, 1.6mm

Electrical Characteristics

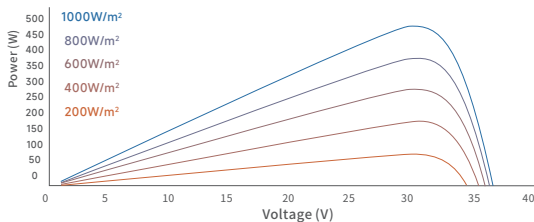
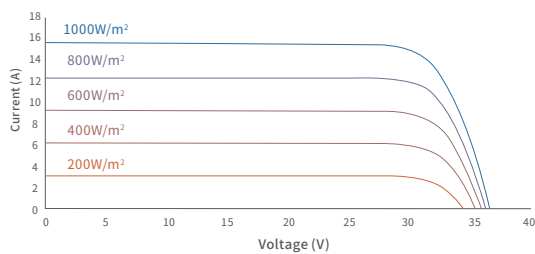
STC

HS-210R-S96	DSB440	DSB445	DSB450	DSB455	DSB460	DSB465
Maximum Power (Pmax/W)	440	445	450	455	460	465
Module Efficiency (%)	22.0	22.3	22.5	22.8	23.0	23.3
Maximum Power Voltage (Vmp/V)	30.61	30.72	30.83	30.94	31.05	31.16
Maximum Power Current (Imp/A)	14.38	14.49	14.60	14.71	14.82	14.93
Open Circuit Voltage (Voc/V)	36.52	36.62	36.72	36.82	36.92	37.02
Short Circuit Current (Isc/A)	15.31	15.42	15.53	15.64	15.75	15.86

STC: AM1.5, 1000W/m², 25°C.

I-V Curve

(HS-210R-S96DSB445)



Temperature Characteristics

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

NOCT

Maximum Power (Pmax/W)	335	339	343	347	351	355
Maximum Power Voltage (Vmp/V)	29.23	29.34	29.45	29.55	29.65	29.76
Maximum Power Current (Imp/A)	11.49	11.58	11.67	11.76	11.84	11.93
Open Circuit Voltage (Voc/V)	34.86	34.95	35.05	35.14	35.24	35.33
Short Circuit Current (Isc/A)	12.24	12.32	12.41	12.50	12.59	12.68

NOCT: AM1.5, 800W/m², 20°C, 1m/s.

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

Packaging

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



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