



Everest G12R Series

435-46

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



HJT Technology

Combining gettering process and $\mu \text{c-Si}$ 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

Linear 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

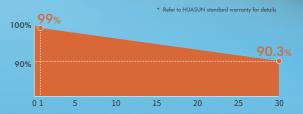








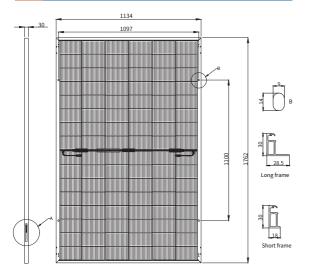




- BloombergNEF Tier 1 PV module manufacturer
- Reinsurance underwritten by Ariel Re

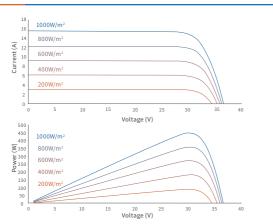
Engineering Drawings





I-V Curve

(HS-210R-B96DS445)



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°C
Operating Temperature	-40~+85°C
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	DS435	DS440	DS445	DS450	DS455	DS460
Maximum Power (Pmax/W)	435	440	445	450	455	460
Module Efficiency (%)	21.8	22.0	22.3	22.5	22.8	23.0
Voltage at Pmax (Vmp/V)	30.50	30.61	30.72	30.83	30.94	31.05
Current at Pmax (Imp/A)	14.27	14.38	14.49	14.60	14.71	14.82
Open Circuit Voltage (Voc/V)	36.42	36.52	36.62	36.72	36.82	36.92
Short Circuit Current (Isc/A)	15.20	15.31	15.42	15.53	15.64	15.75

STC: AM1.5, 1000W/m², 25°C.

BSTC

Maximum Power (Pmax/W)	487	493	499	504	510	515
Voltage at Pmax (Vmp/V)	30.61	30.72	30.83	30.94	31.05	31.16
Current at Pmax (Imp/A)	15.94	16.07	16.19	16.31	16.44	16.56
Open Circuit Voltage (Voc/V)	36.55	36.65	36.75	36.85	36.95	37.05
Short Circuit Current (Isc/A)	17.05	17.17	17.29	17.42	17.54	17.66

BSTC: AM1.5, 1000W/m², 135W/m², 25°C.

NOCT

Maximum Power (Pmax/W)	332	335	339	343	347	351
Voltage at Pmax (Vmp/V)	29.12	29.23	29.34	29.45	29.55	29.65
Current at Pmax (Imp/A)	11.40	11.49	11.58	11.67	11.76	11.84
Open Circuit Voltage (Voc/V)	34.76	34.86	34.95	35.05	35.14	35.24
Short Circuit Current (Isc/A)	12.15	12.24	12.32	12.41	12.50	12.59

NOCT: AM1.5, 800W/m², 20°C, 1m/s.

Packaging

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



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