

Kunlun G12R Series **Ultra-high bifaciality** **545-570W**

120-cell vertical installation
HJT module



HJT-0BB Technology
Shorter current transport path, better low-light performance and higher power generation.



Ultra-high bifacial rate
Nearly 100% bifacial rate.



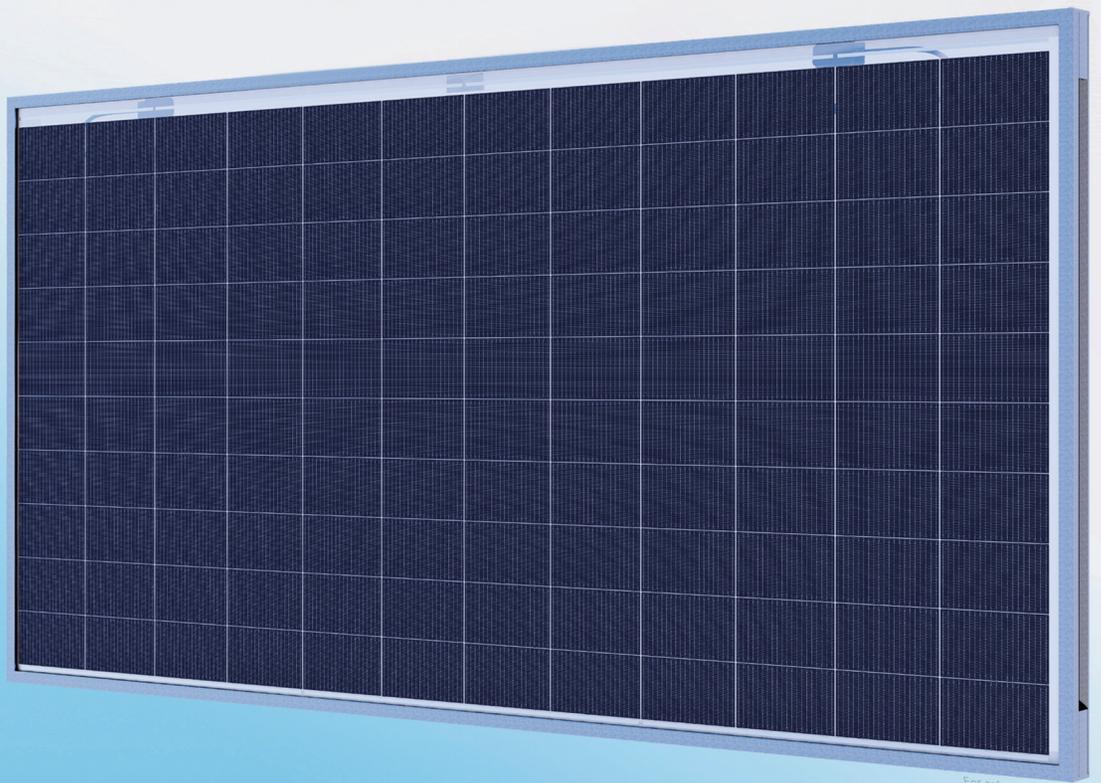
Unique product design
Special patented circuit design makes system installation more convenient.



Preferred for vertical installation scenario
Extremely small projection area, suitable for agricultural and transportation scenarios.



Ultra-low operation and maintenance costs
Vertical installation ensures no snow or dust accumulation, significantly reducing operation and maintenance costs.

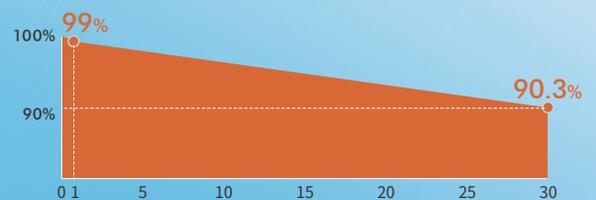


For reference only



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 $\geq 90.3\%$

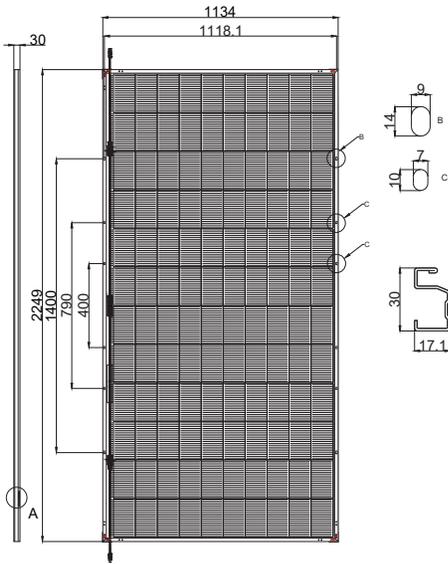
HSN-210R-B120 545-570W

120-Half-Cell-vertical installation HJT module

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

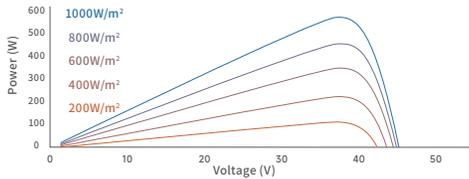
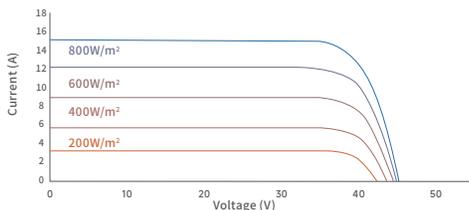
Engineering Drawings

Unit: mm



I-V Curve

(HSN-210R-B120DSV570)



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)
Maximum Series Fuse Rating	30A
Tolerance of Pmax	0~+3%
Power Selection	0~+5W
Bifaciality	97±3%
Safety Class	Class II

Mechanical Characteristics

Cell Type	HJT
No. of Cells	120 (10x12)
Dimensions	2249 x 1134 x 30 mm
Weight	33.3kg
Junction Box	IP68
Cable	4mm ² ; +450/-500mm or customized; UV resistant
Connector	PV-H1 / MC4-Evo 2 / Others
Frame	Alloy steel frame
Max Static Load (front side/rear side)	3600Pa / 3600Pa
Glass	Dual glass, 2.0mm

Electrical Characteristics

STC

HSN-210R-B120	DSV545	DSV550	DSV555	DSV560	DSV565	DSV570
Maximum Power (Pmax/W)	545	550	555	560	565	570
Module Efficiency (%)	21.4	21.6	21.8	22.0	22.2	22.3
Voltage at Pmax (Vmp/V)	37.52	37.66	37.80	37.95	38.09	38.23
Current at Pmax (Imp/A)	14.55	14.62	14.69	14.77	14.84	14.91
Open Circuit Voltage (Voc/V)	44.93	45.06	45.19	45.31	45.42	45.55
Short Circuit Current (Isc/A)	15.40	15.48	15.56	15.63	15.71	15.79

STC: AM1.5, 1000W/m², 25°C.

BNPI

HSN-210R-B120	DSV545	DSV550	DSV555	DSV560	DSV565	DSV570
Maximum Power (Pmax/W)	614	620	626	631	637	643
Voltage at Pmax (Vmp/V)	37.65	37.79	37.93	38.08	38.22	38.37
Current at Pmax (Imp/A)	16.33	16.42	16.51	16.59	16.68	16.76
Open Circuit Voltage (Voc/V)	45.09	45.22	45.35	45.47	45.58	45.71
Short Circuit Current (Isc/A)	17.38	17.47	17.56	17.63	17.72	17.82

BNPI: AM1.5, 1000W/m², 135W/m², 25°C.

NOCT

HSN-210R-B120	DSV545	DSV550	DSV555	DSV560	DSV565	DSV570
Maximum Power (Pmax/W)	416	419	423	427	431	435
Voltage at Pmax (Vmp/V)	35.79	35.94	36.10	36.23	36.38	36.52
Current at Pmax (Imp/A)	11.63	11.68	11.74	11.80	11.86	11.92
Open Circuit Voltage (Voc/V)	42.88	43.01	43.13	43.25	43.35	43.47
Short Circuit Current (Isc/A)	12.31	12.37	12.44	12.49	12.56	12.62

NOCT: AM1.5, 800W/m², 20°C, 1m/s.

Packaging

	40'HQ
Modules Per Pallet	35
Pallets Per Container	20
Modules Per Container	700



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