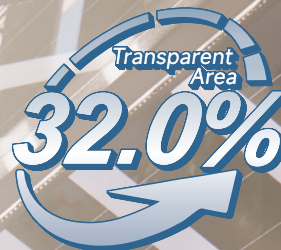


64 Half-cell Agrivoltaics HJT Module

290-300W



Through More Light, Gain More Greens.



HJT-0BB Technology

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



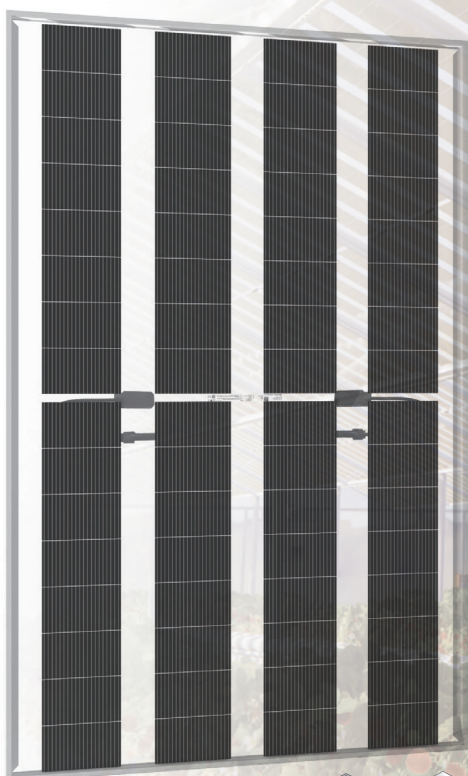
Sealing with PIB

Stronger moisture resistance, greater air impermeability to extend module lifespan.



Dual Benefits

Uniform light transmission, perfectly matching the lighting needs of agriculture, which compatibly making solar and agriculture achieve mutual benefits and added value to each sector.



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 $\geq 90.3\%$



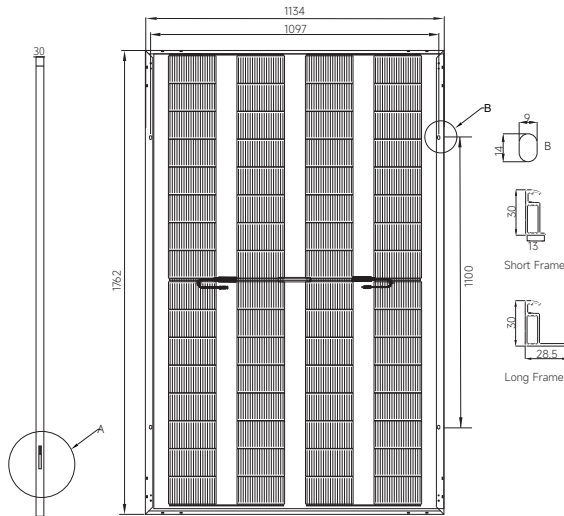
HSN-210R-B64 290-300W

64-cell Bifacial HJT Solar Half Cell Module

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

Engineering Drawings

Unit: mm



Mechanical Characteristics

Cell Type	HJT
No. of Cells	64(4x16)
Dimensions	1762x1134x30mm
Weight	21.5Kg
Junction Box	IP68
Cable	4mm ² ;+350/-450mm 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-B64	DSN290	DSN295	DSN300
Maximum Power (P _{max} /W)	290	295	300
Module Efficiency (%)	14.5	14.8	15.0
Voltage at P _{max} (V _{mp} /V)	20.26	20.40	20.55
Current at P _{max} (I _{mp} /A)	14.32	14.46	14.61
Open Circuit Voltage (V _{oc} /V)	24.16	24.32	24.48
Short Circuit Current (I _{sc} /A)	15.02	15.16	15.31

STC: AM1.5, 1000W/m², 25°C.

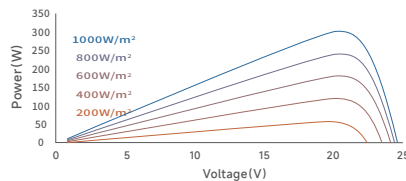
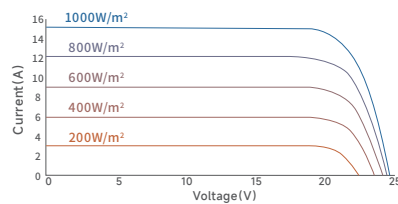
BNPI

Maximum Power (P _{max} /W)	325	330	336
Voltage at P _{max} (V _{mp} /V)	20.33	20.48	20.62
Current at P _{max} (I _{mp} /A)	16.00	16.16	16.32
Open Circuit Voltage (V _{oc} /V)	24.24	24.40	24.56
Short Circuit Current (I _{sc} /A)	16.84	17.01	17.17

BNPI: AM1.5, 1000W/m², 135W/m², 25°C.

I-V Curve

(HSN-210R-B64DSN300)



Temperature Characteristics

Temperature Coefficient of P _{max}	-0.24%/°C
Temperature Coefficient of V _{oc}	-0.22%/°C
Temperature Coefficient of I _{sc}	+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 P _{max}	0~+3%
Power Selection	0~+5W
Bifaciality	90±5%
Safety Class	Class II

NOCT

Maximum Power (P _{max} /W)	221	225	229
Voltage at P _{max} (V _{mp} /V)	19.35	19.49	19.62
Current at P _{max} (I _{mp} /A)	11.44	11.56	11.67
Open Circuit Voltage (V _{oc} /V)	23.06	23.21	23.36
Short Circuit Current (I _{sc} /A)	12.00	12.12	12.24

NOCT: AM1.5, 800W/m², 20°C, 1m/s.

Packaging

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



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