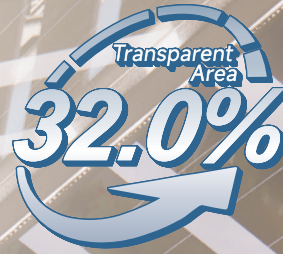


## 88 Half-cell Agrivoltaics HJT Module

# 400-410W



Through More Light, Gain More Greens.



### HJT-0BB Technology

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



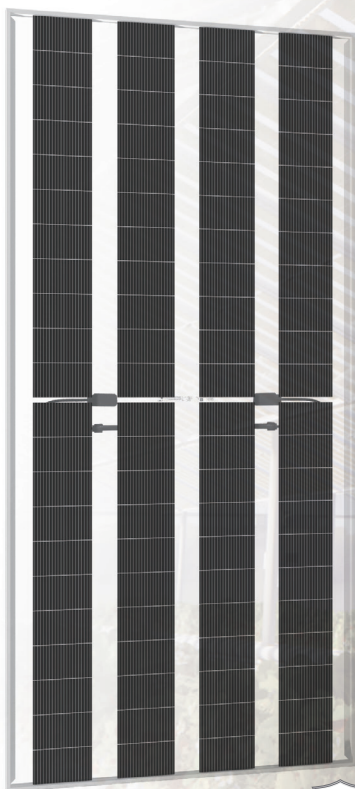
### Sealing with PIB

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

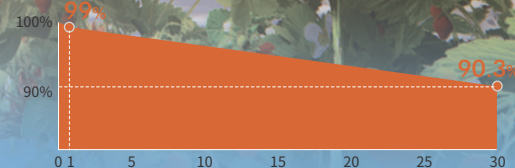
ISO9001: 2015 Quality Management System

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  $> 90.3\%$



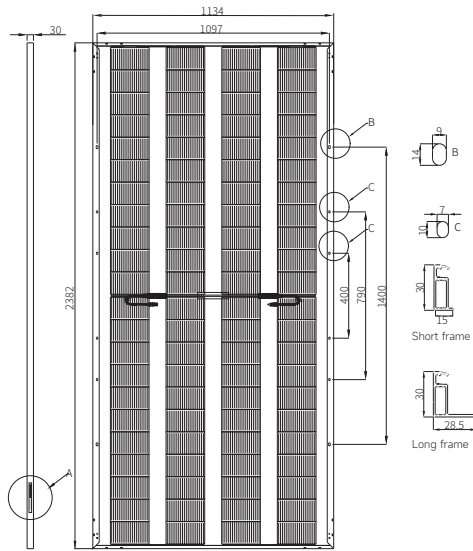
# HSN-210R-B88 400-410W

88-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	88(4x22)
Dimensions	2382x1134x30mm
Weight	32kg
Junction Box	IP68
Cable	4mm <sup>2</sup> ;+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, 2.0mm

## Electrical Characteristics

### STC

HSN-210R-B88	DSN400	DSN405	DSN410
Maximum Power (P <sub>max</sub> /W)	400	405	410
Module Efficiency (%)	14.8	15.0	15.2
Voltage at P <sub>max</sub> (V <sub>mp</sub> /V)	27.74	27.89	28.03
Current at P <sub>max</sub> (I <sub>mp</sub> /A)	14.42	14.53	14.63
Open Circuit Voltage (V <sub>oc</sub> /V)	33.08	33.24	33.40
Short Circuit Current (I <sub>sc</sub> /A)	15.12	15.23	15.34

STC: AM1.5, 1000W/m<sup>2</sup>, 25°C.

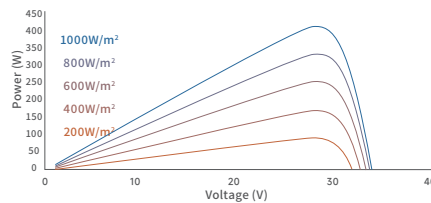
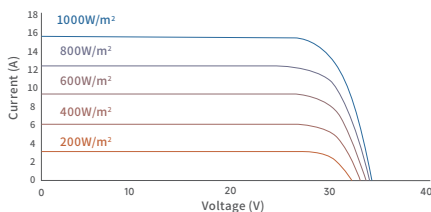
### BNPI

Maximum Power (P <sub>max</sub> /W)	448	454	459
Voltage at P <sub>max</sub> (V <sub>mp</sub> /V)	27.84	27.99	28.13
Current at P <sub>max</sub> (I <sub>mp</sub> /A)	16.11	16.23	16.35
Open Circuit Voltage (V <sub>oc</sub> /V)	33.19	33.36	33.52
Short Circuit Current (I <sub>sc</sub> /A)	16.96	17.08	17.20

BNPI: AM1.5, 1000W/m<sup>2</sup>, 135W/m<sup>2</sup>, 25°C.

## I-V Curve

(HSN-210R-B88DSN410)



## Temperature Characteristics

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

## NOCT

Maximum Power (P <sub>max</sub> /W)	305	309	313
Voltage at P <sub>max</sub> (V <sub>mp</sub> /V)	26.50	26.64	26.78
Current at P <sub>max</sub> (I <sub>mp</sub> /A)	11.53	11.61	11.69
Open Circuit Voltage (V <sub>oc</sub> /V)	31.57	31.73	31.88
Short Circuit Current (I <sub>sc</sub> /A)	12.09	12.17	12.26

NOCT: AM1.5, 800W/m<sup>2</sup>, 20°C, 1m/s.

## Packaging

	40'HQ
Modules Per Pallet	36
Pallets Per Container	20
Modules Per Container	720



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