

88 Half-cell Agrivoltaics HJT Module

400-410W

Through More Light IN, Gain More Greens.



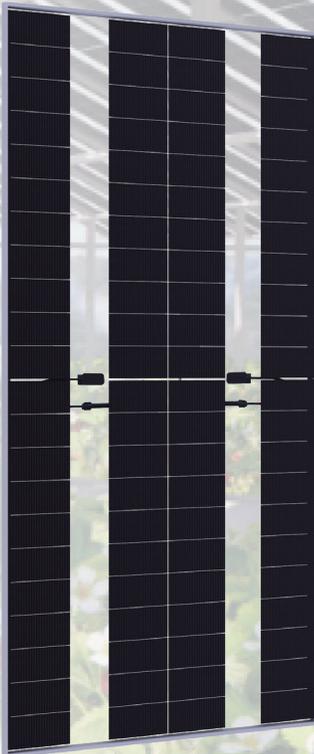
HJT-0BB Technology

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



Dual Benefits

Perfectly matching the lighting requirements of crop cultivation, achieving dual benefits in electricity generation and cultivation.



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 < 1%
 * Annual power degradation (2-30 year) < 0.3%
 * Power output until the 30th year > 90.3%

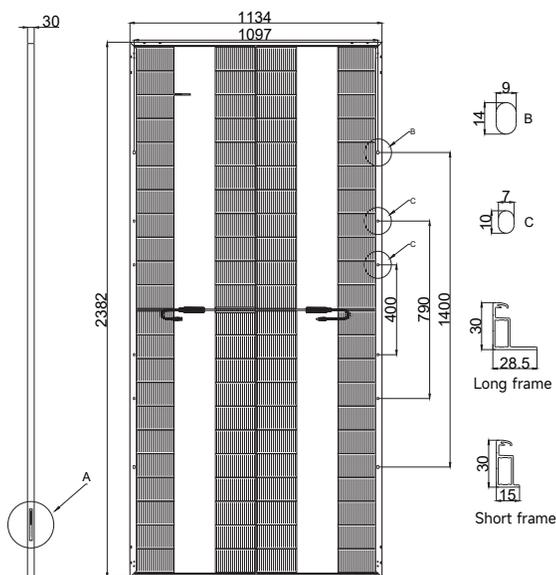
HSN-210R-B88 400-410W

88-cell Bifacial HJT Solar Half Cell Module

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

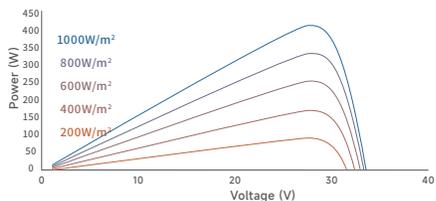
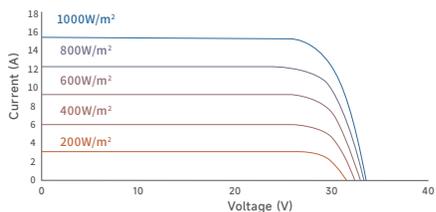
Engineering Drawings

Unit: mm



I-V Curve

(HSN-210R-B88DSN410)



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	90±5%
Safety Class	Class II

Mechanical Characteristics

Cell Type	HJT
No. of Cells	88(4x22)
Dimensions	2382x1134x30mm
Weight	32kg
Junction Box	IP68
Cable	4mm²;+350/-450mm or customized; UV resistant
Connector	PV-H1 / MC4-Evo 2 / Others
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 (Pmax/W)	400	405	410
Module Efficiency (%)	14.8	15.0	15.2
Voltage at Pmax (Vmp/V)	27.74	27.89	28.03
Current at Pmax (Imp/A)	14.42	14.53	14.63
Open Circuit Voltage (Voc/V)	33.08	33.24	33.40
Short Circuit Current (Isc/A)	15.12	15.23	15.34

STC: AM1.5, 1000W/m², 25°C.

BNPI

Maximum Power (Pmax/W)	448	454	459
Voltage at Pmax (Vmp/V)	27.84	27.99	28.13
Current at Pmax (Imp/A)	16.11	16.23	16.35
Open Circuit Voltage (Voc/V)	33.19	33.36	33.52
Short Circuit Current (Isc/A)	16.96	17.08	17.20

BNPI: AM1.5, 1000W/m², 135W/m², 25°C.

NOCT

Maximum Power (Pmax/W)	305	309	313
Voltage at Pmax (Vmp/V)	26.50	26.64	26.78
Current at Pmax (Imp/A)	11.53	11.61	11.69
Open Circuit Voltage (Voc/V)	31.57	31.73	31.88
Short Circuit Current (Isc/A)	12.09	12.17	12.26

NOCT: AM1.5, 800W/m², 20°C, 1m/s.

Packaging

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



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NO.99 Qingliu Road, Economic and Technological Development Zone, Xuancheng, Anhui, China
 Tel: 0086-563-3318095 www.huasunsolar.com
 sales@huasunsolar.com customerservice@huasunsolar.com

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