HUASUN | HETEROJUNCTION TECHNOLOGY

Premiere

Everest G12R Series

630-650W

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

Efficiency up to 24.1%

HJT 3.0

HJT-0BB Technology

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

Sealing with PIB

Stronger moistance resistance, greater air impermeability to extent module lifespan.

Full Scenarios Coverage

Suitable for all scenarios, especially C&I, residential, and utility applications, lower BOS cost, lower LCOE.

15 YEARS PRODUCT WARRANTY

30 YEARS POWER WARRANTY

Complete System and Product Certifications:

IEC61215, IEC61730

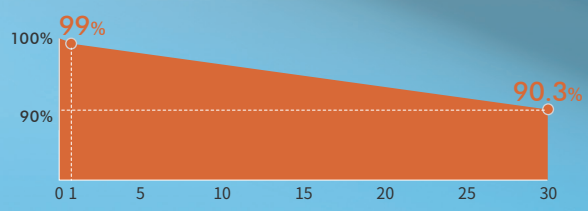
ISO9001: 2015 Quality Management System

ISO14001: 2015 Environment Management System

ISO45001: 2018 Occupational Health and Safety

IEC62941: 2019 Terrestrial Photovoltaic (PV) Modules-quality System for PV Module Manufacturing

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%

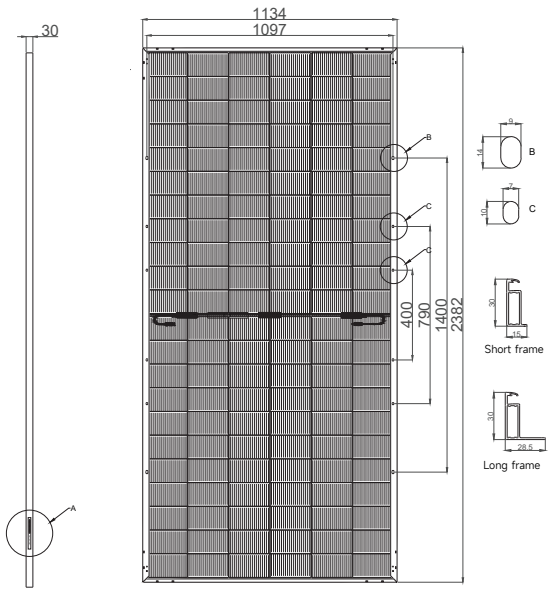
HSN-210R-B132 630-650W

132-Half-Cell Bifacial HJT Module

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

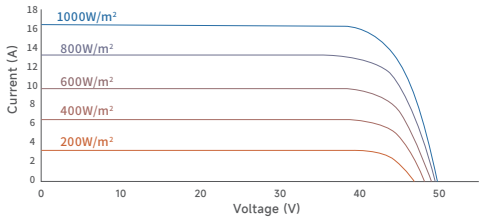
Engineering Drawings

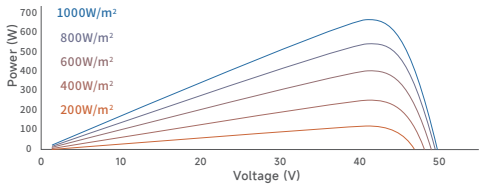
Unit: mm



I-V Curve

(HSN-210R-B132DS650)





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	132 (6x22)
Dimensions	2382 x 1134 x 30 mm
Weight	32.3 kg
Junction Box	IP68
Cable	4mm²; +350/-250mm 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-B132	DS630	DS635	DS640	DS645	DS650
Maximum Power (Pmax/W)	630	635	640	645	650
Module Efficiency (%)	23.3	23.5	23.7	23.9	24.1
Voltage at Pmax (Vmp/V)	41.23	41.32	41.41	41.50	41.59
Current at Pmax (Imp/A)	15.30	15.39	15.47	15.55	15.63
Open Circuit Voltage (Voc/V)	49.34	49.43	49.52	49.61	49.70
Short Circuit Current (Isc/A)	16.16	16.26	16.36	16.46	16.56

STC: AM1.5, 1000W/m², 25°C.

BNPI

Maximum Power (Pmax/W)	706	712	717	723	728
Voltage at Pmax (Vmp/V)	41.37	41.46	41.55	41.64	41.73
Current at Pmax (Imp/A)	17.08	17.18	17.27	17.37	17.47
Open Circuit Voltage (Voc/V)	49.51	49.60	49.69	49.78	49.87
Short Circuit Current (Isc/A)	18.12	18.24	18.35	18.46	18.57

BNPI: AM1.5, 1000W/m², 135W/m², 25°C.

NOCT

Maximum Power (Pmax/W)	481	484	488	492	496
Voltage at Pmax (Vmp/V)	39.34	39.42	39.52	39.63	39.73
Current at Pmax (Imp/A)	12.23	12.30	12.36	12.43	12.49
Open Circuit Voltage (Voc/V)	47.09	47.18	47.26	47.35	47.44
Short Circuit Current (Isc/A)	12.92	13.00	13.08	13.16	13.23

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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