

Kunlun G12R Series Ultra-high bifaciality

605-640W

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

Efficiency
up to
23.7%



HJT-0BB Technology

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



Ultra-high Bifaciality

Natural symmetrical bifacial structure bringing more energy yield from the backside



Ultimate Reduction of Floor Space

Eliminating negative impact on land resource



Ultra-low Operating Costs

Preventing snow-cover and dust stratification by vertical installation to reduce maintenance costs



Perfectly Fitting for Farms

Rangeland and expressway

Application Scenarios



Ground



Farm & Pasture



High Speed



Complete System and Product Certifications:

IEC61215, IEC61730

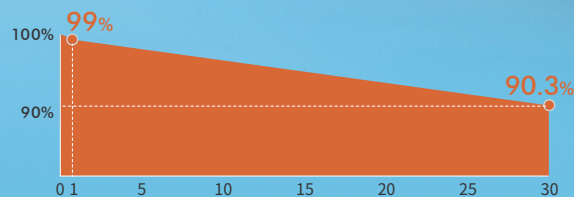
ISO9001: 2015 Quality Management System

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%

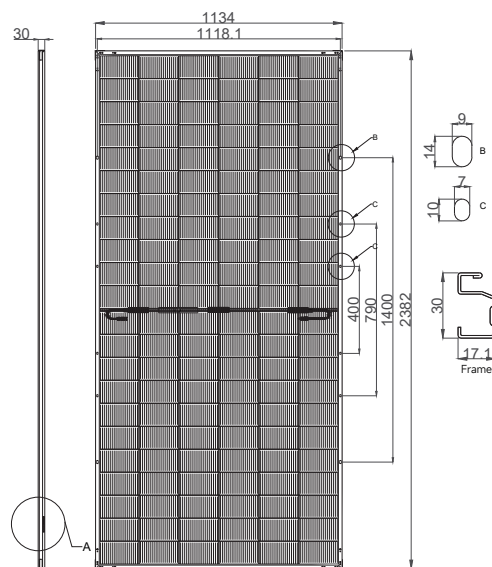
HSN-210R-B132 605-640W

132-Half-Cell Bifacial HJT Solar Half Cell Module

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

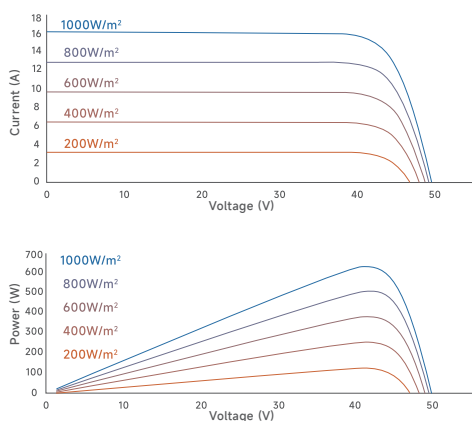
Engineering Drawings

Unit: mm



I-V Curve

(HSN-210R-B132DSU640)



Temperature Coefficients

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	95±5%
Safety Class	Class II

Mechanical Characteristics

Cell Type	HJT
No. of Cells	132 (6x22)
Dimensions	2382 x 1134 x 30 mm
Weight	35.3kg
Junction Box	IP68
Cable	4mm²; +350/-250mm or customized; UV resistant
Connector	MC4 / MC4-Evo2 / MC4-Evo2A / PV-H4 / Z4S-abcd / PV-ZH202B / PV-H1
Frame	Alloy steel frame
Max Static Load (front side/rear side)	7000Pa / 3000Pa
Glass	Dual glass, 2.0mm

Electrical Characteristics

STC

HSN-210R-B132	DSU605	DSU610	DSU615	DSU620	DSU625	DSU630	DSU635	DSU640
Maximum Power (P _{max} /W)	605	610	615	620	625	630	635	640
Module Efficiency (%)	22.4	22.6	22.8	23.0	23.1	23.3	23.5	23.7
Voltage at P _{max} (V _{mp} /V)	40.78	40.85	40.96	41.05	41.14	41.23	41.32	41.41
Current at P _{max} (I _{mp} /A)	14.85	14.95	15.03	15.12	15.21	15.30	15.39	15.47
Open Circuit Voltage (V _{oc} /V)	48.85	48.94	49.05	49.15	49.25	49.34	49.43	49.52
Short Circuit Current (I _{sc} /A)	15.66	15.76	15.86	15.96	16.06	16.16	16.26	16.36

STC: AM1.5, 1000W/m², 25°C.

BNPI

Maximum Power (P _{max} /W)	682	688	693	699	705	710	716	722
Voltage at P _{max} (V _{mp} /V)	40.92	40.99	41.10	41.19	41.28	41.37	41.46	41.55
Current at P _{max} (I _{mp} /A)	16.68	16.79	16.88	16.98	17.08	17.18	17.28	17.38
Open Circuit Voltage (V _{oc} /V)	49.02	49.11	49.22	49.32	49.42	49.51	49.60	49.69
Short Circuit Current (I _{sc} /A)	17.67	17.78	17.89	18.01	18.12	18.23	18.35	18.46

BNPI: AM1.5, 1000W/m², 135W/m², 25°C.

NOCT

Maximum Power (P _{max} /W)	461	465	469	473	477	481	484	488
Voltage at P _{max} (V _{mp} /V)	38.92	38.98	39.09	39.18	39.26	39.34	39.42	39.52
Current at P _{max} (I _{mp} /A)	11.87	11.95	12.01	12.08	12.16	12.23	12.30	12.36
Open Circuit Voltage (V _{oc} /V)	46.62	46.71	46.82	46.91	47.01	47.09	47.18	47.26
Short Circuit Current (I _{sc} /A)	12.52	12.60	12.68	12.76	12.84	12.92	13.00	13.08

NOCT: AM1.5, 800W/m², 20°C, 1m/s.

Packaging

	40'HQ
Modules Per Pallet	34
Pallets Per Container	18
Modules Per Container	612



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