

Maximum Power Output

720W

Maximum Module Efficiency

23.23%

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Tolerance

 $0 - \pm 3\%$

680W-720W

G12 132HC 18BB DOUBLE-GLASS

KEY FEATURES

High Efficiency

Leading module efficiency in industry, the highest efficiency up to 23.82%



Excellent Appearance and Performance

Bifacial solar cell, symmetrical design, low risk of micro-crack



High Reliability

Passed 3*IEC standard test, 15 years materials warranty, 30 years output linear power warranty



Excellent Rear Side Power Generation

Bifaciality is up to 80%, up to 30% more energy yield than conventional modules



Better low irradiance performance

Higher power output even under low irradiance environments like on cloudy or foggy days

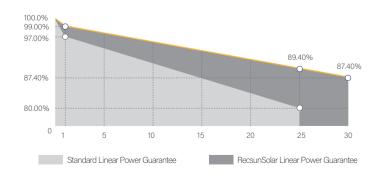


Extensive Application Scenes

More extensive application scenes, such as snow field, vertical installation, high humidity, strong wind and desert

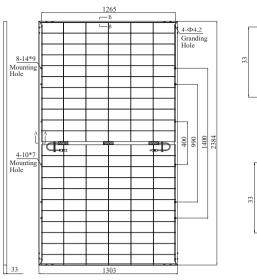
Product and Quality Certifications

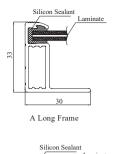


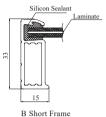


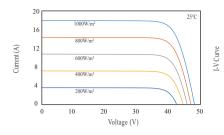
Leading Product and Power Warranty

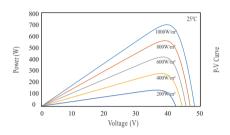
CHARACTERISTIC CURVES (700W)











ELECTRICAL PARAMETERS (Test Condition is Based on the Front Side)

Module Type	N680H132G12D	N690H132G12D	N700H132G12D	N710H132G12D	N720H132G12D
Testing Condition	STC NOCT				
Nominal Max. Power(Pmax/W)	680 519	690 527	700 535	710 543	720 552
Open Circuit Voltage(Voc/V)	47.40 44.90	47.80 45.30	48.20 45.70	48.60 46.10	49.00 46.50
Short Circuit Current(Isc/A)	18.18 14.65	18.26 14.71	18.34 14.77	18.42 14.83	18.50 14.89
Maximum Power Voltage(Vmp/V)	39.60 37.10	40.00 37.50	40.40 37.90	40.80 38.30	41.20 38.70
Maximun Power Current(Imp/A)	17.20 13.98	17.27 14.05	17.34 14.12	17.41 14.19	17.48 14.26
Efficiency(%)	21.89%	22.21%	22.53%	22.85%	23.23%

STC: Irradiance = 1000 W/m 2 , Cell Temperature = 25 $^{\circ}$ C, AM = 1.5, Average efficiency reduction of 4.5% at 200W/m 2 .

NOTC: Irradiance = 800 W/m^2 , Ambient Temperature = 20°C , AM = 1.5, Wind Speed = 1 m/s.

MECHANICAL PARAMETERS

Cell Type	210*105mm, 132HC	Connector	MC4 Original/Compatible
Module Size&Weight	2384×1303×33mm, 38.8Kg	Junction Box	IP68, 3 Bypass Diodes
Glass	2.0mm AR Coated Heat Strengthened Glass	Frame	Anodized Aluminium Alloy(Sliver)
Backsheet	2.0mm Ultra-Clear Float Glass	Cable	4mm², Cable Length 300mm(customized)

TEMPERATURE COEFFICIENTS

Nominal Operating Cell Temperature	43°C(±2°C)	Temperature Coefficient of Voc	-0.250%/°C
Temperature Coefficient of Pmax	-0.310%/°C	Temperature Coefficient of Isc	+0.040%/°C

BACKSIDE POWER GAIN 10% FOR REFERENCE

Module Frontside Power(W)	680	690	700	710	720
Nominal Max. Power(Pmax/W)	748	759	770	781	792
Open Circuit Voltage(Voc/V)	47.4	47.8	48.2	48.6	49.0
Short Circuit Current(Isc/A)	19.95	20.04	20.13	20.22	20.31
Max. Power Voltage(Vmp/V)	39.6	40.0	40.4	40.8	41.2
Max. Power Current(Imp/A)	18.89	18.98	19.06	19.14	19.22

OPERATING PARAMETERS

Max. System Voltage	DC1500V
Power Tolerance	0 - +3%
Operating Temperatue	-40°C - +85°C
Max. Fuse Rated Current	35A
Front Static Load	Snow 5400Pa, Wind 2400Pa
Packaging Data	33PCS/Pallet; 594PCS/40HQ



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