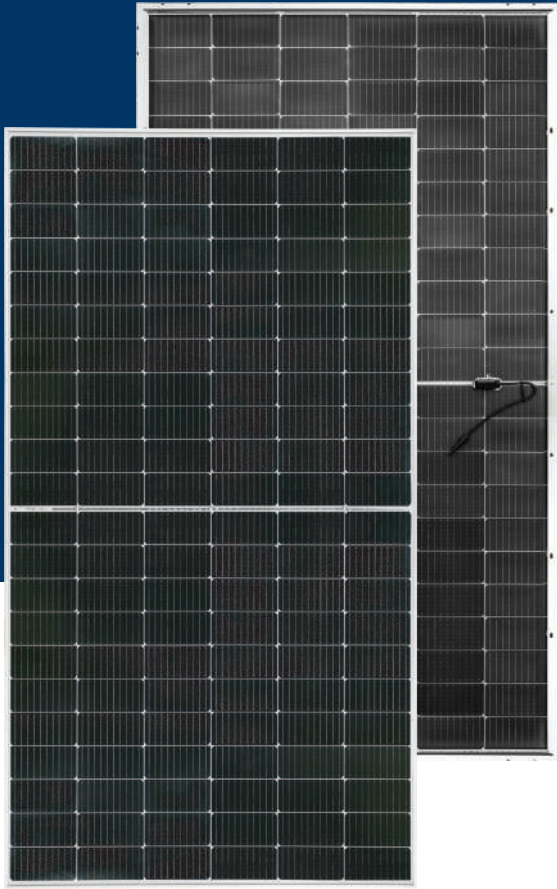




SOLAR PV MODULE

132 HALF CUT TOPCon CELL

BIFACIAL DUAL GLASS G12 680-710 W
WITH NEW (210.0X210.0)mm CELL

Suitable for



RESIDENTIAL



UTILITY



COMMERCIAL



OFF-GRID

Transition to a Brighter Tomorrow



SBBB Technology

Better light trapping and current collection to improve module power output and reliability



PID Resistant

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control



Higher Power Output

Module power increases 5-25% generally, bringing significantly lower LCOE and higher IRR



Auto Bussing & Soldering Technology

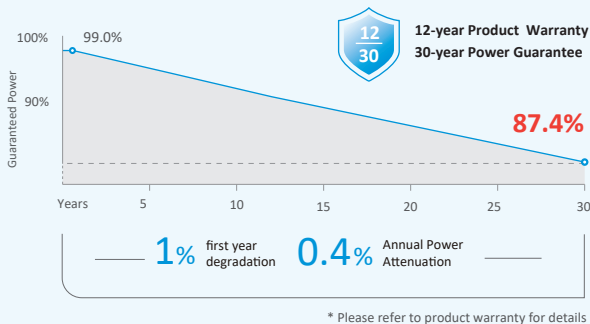
Induction based Improved soldering quality and on-line detection to ensure defect free module



Enhanced Mechanical Load

Certified to withstand wind load (2400 Pascal) and snow load (5400 Pascal)

Performance Warranty



Certification



IEC 62804 (PID) | IEC 61701 (Salt Mist) | IEC 62726 (Ammonia)

IEC 61853- 2 (Panfile & IAM) | LID, LETID | UL 61730

IEC 60068 (Sand & Dust) | IEC 61215 | IEC 61730

G12 (210.0x210.0)mm CELL, IDEAL FOR ULTRA-LARGE POWER PLANT

ALSO AVAILABLE IN FULL BLACK MODULE



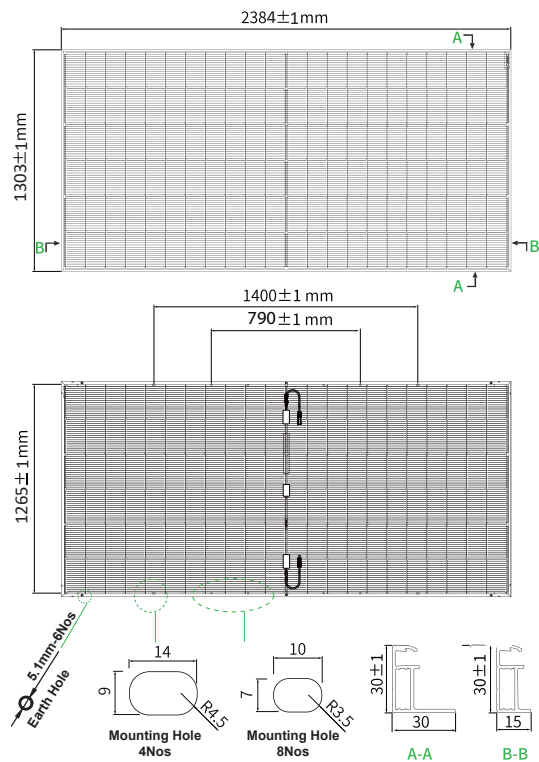
Electrical Characteristics (STC)

MODULE TYPE	PE-132-680 THGB-G12	PE-132-685 THGB-G12	PE-132-690 THGB-G12	PE-132-695 THGB-G12	PE-132-700 THGB-G12	PE-132-705 THGB-G12	PE-132-710 THGB-G12
Maximum Power, W (Pmp) ¹	680	685	690	695	700	705	710
Open Circuit Voltage, V (Voc) ¹	47.13	47.17	47.21	47.25	47.29	47.33	47.37
Short Circuit Current, A (Isc) ¹	17.54	17.65	17.76	17.87	17.97	18.08	18.19
Maximum Power Voltage, V (Vmp) ¹	40.71	40.75	40.79	40.83	40.87	40.91	40.95
Maximum Power Current, A (Imp) ¹	16.70	16.81	16.92	17.03	17.13	17.24	17.35
Module Fill Factor, % (FF) ¹	82.26	82.28	82.29	82.31	82.33	82.34	82.35
Module Efficiency, % (Eff)	21.89%	22.05%	22.21%	22.37%	22.53%	22.70%	22.86%
Temperature Coefficients of Pmax ²				-0.29%/°C			
Temperature Coefficients of Voc ²				-0.25%/°C			
Temperature Coefficients of Isc ²				+0.045%/°C			
STC Irradiance 1000W/m ² , Module Temperature 25°C, AM1.5G					Measurement Uncertainty : ±3%		
Due to different testing methods, the actual performances might marginally differ from the declared specifications.							

Electrical Characteristics (NOCT)

MODULE TYPE	PE-132-680 THGB-G12	PE-132-685 THGB-G12	PE-132-690 THGB-G12	PE-132-695 THGB-G12	PE-132-700 THGB-G12	PE-132-705 THGB-G12	PE-132-710 THGB-G12
Maximum Power, W (Pmp)	516	520	524	528	531	535	539
Open Circuit Voltage, V (Voc)	44.33	44.36	44.40	44.44	44.48	44.51	44.55
Short Circuit Current, A (Isc)	14.16	14.25	14.34	14.42	14.51	14.60	14.69
Maximum Power Voltage, V (Vmp)	38.29	38.33	38.36	38.40	38.44	38.48	38.51
Maximum Power Current, A (Imp)	13.48	13.57	13.66	13.75	13.83	13.92	14.00
Module Fill Factor, % (FF)	82.24	82.28	82.31	82.35	82.38	82.42	82.46
Module Efficiency, % (Eff)	16.62	16.74	16.87	16.99	17.11	17.24	17.36
NOCT- Irradiance 800 W/m ² , Ambient Temperature 20°C AM1.5G, Wind speed 1m/s					Measurement Uncertainty : ±3%		

Bifacial Gain		PE-132-680 THGB-G12	PE-132-685 THGB-G12	PE-132-690 THGB-G12	PE-132-695 THGB-G12	PE-132-700 THGB-G12	PE-132-705 THGB-G12	PE-132-710 THGB-G12
10%	Power Pmp,W	748	753.5	759	764.5	770	775.5	781
20%	Power Pmp,W	816	822	828	834	840	846.5	852
30%	Power Pmp,W	884	890.5	897	903.5	910	916.5	923
Bifacial gains depends on the power plant design & albedo of installation site					Measurement Uncertainty : ±3%			

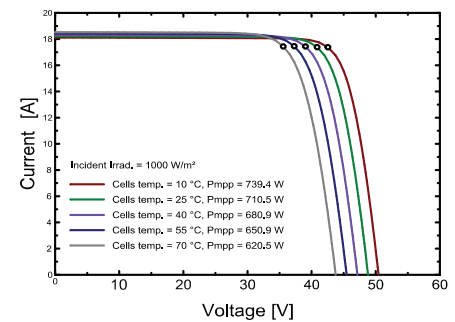
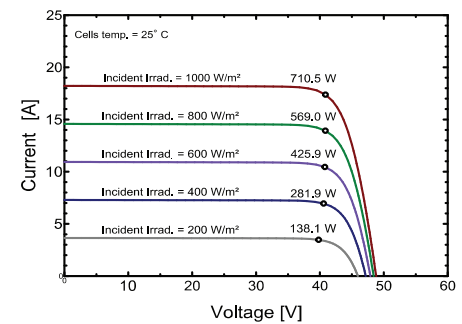


FIRST YEAR
DEGRADATION
< 1.0%

YEAR 2-30 POWER
DEGRADATION
< 0.40%

Application Conditions

Operating Temperature	-40°C ~ +84°C
Maximum System Voltage	1500 VDC (IEC)
Maximum Series Fuse Rating	30 A
Nominal Operating Cell Temperature - NOCT	45±2°C
Refer. Bifacial Factor	80±5 %



Mechanical Specifications

Cell Type	N-type bifacial half cut cell (210mm), 18BB
No. of Cells	132 (66x2)
Dimension	(2384X1303x30)mm
Weight	36 +/-3% kg
Front Glass	2.0mm, Anti-reflection Coating
Back Glass	2.0mm, Heat Strengthened Glass
Frame	Silver Anodised Aluminum Alloy
Junction Box	IP 68 Rated
Protection Class	Class II
IEC File Type	Class C
Output Cable	Solar cable 400 mm length, 4 mm ²

Packing Configuration

Container	40'HQ
Pieces per Pallet	33
Pallets per Container	18
Pieces per Container	594

