



SOLAR PV MODULE

132 HALF CUT N-TYPE CELL

BIFACIAL DUAL GLASS G12R 600-630W
WITH NEW 210.0X182.3mm CELL

Suitable for



RESIDENTIAL



UTILITY



COMMERCIAL



OFF-GRID

Transition to a Brighter Tomorrow



SMBB TECHNOLOGY

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



PID Resistance

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 without pollution to module



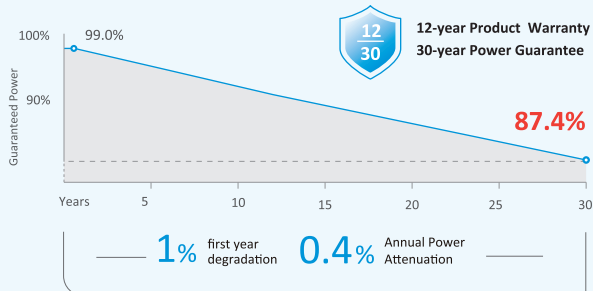
Enhanced Mechanical Load

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



Positive power tolerance (0 to +5w)

Performance Warranty



* Please refer to product warranty for details

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

G12R (210.0x182.3mm) WAFER, IDEAL FOR ULTRA-LARGE POWER PLANT

AVAILABLE IN ALL BLACK RANGE



Electrical Characteristics (STC)

MODULE TYPE	PE-132-600 THGB-G12R	PE-132-605 THGB-G12R	PE-132-610 THGB-G12R	PE-132-615 THGB-G12R	PE-132-620 THGB-G12R	PE-132-625 THGB-G12R	PE-132-630 THGB-G12R
Maximum Power, W (Pmp) ¹	600	605	610	615	620	625	630
Open Circuit Voltage, V (Voc) ¹	48.79	48.93	49.06	49.20	49.34	49.47	49.61
Short Circuit Current, A (Isc) ¹	15.60	15.61	15.62	15.62	15.63	15.64	15.65
Maximum Power Voltage, V (Vmp) ¹	41.03	41.21	41.39	41.57	41.76	41.94	42.13
Maximum Power Current, A (Imp) ¹	14.63	14.68	14.74	14.79	14.85	14.90	14.96
Module Fill Factor, % (FF) ¹	78.8	79.2	79.6	80.0	80.4	80.8	81.2
Module Efficiency, % (Eff)	22.21	22.40	22.58	22.76	22.95	23.13	23.32
Temperature Coefficients of Pmax ²	-0.29%/°C						
Temperature Coefficients of Voc ²	-0.25%/°C						
Temperature Coefficients of Isc ²	+0.045%/°C						

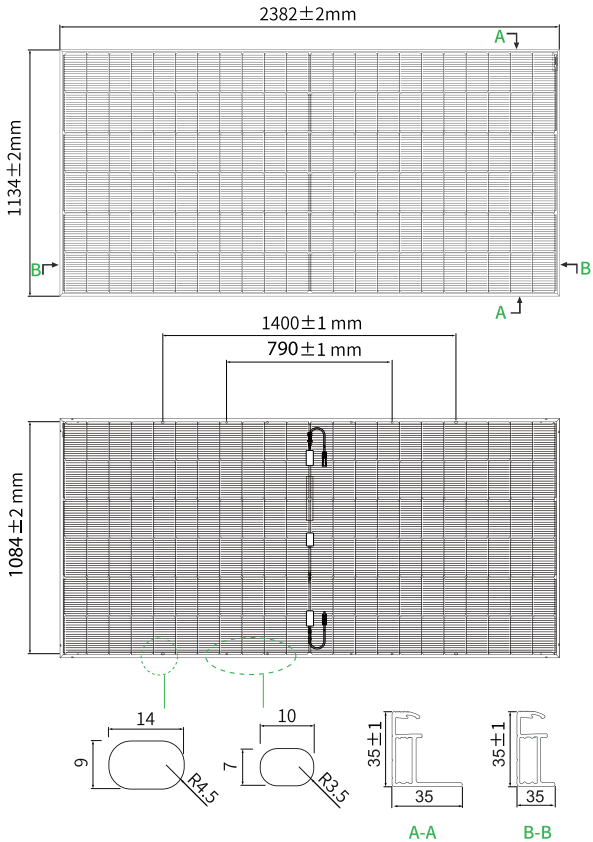
STC Irradiance 1000W/m², Module Temperature 25°C, AM1.5G ¹Measurement Uncertainty: ±3%

²Due to different testing methods, the actual performances might marginally differ from the declared specifications.

Electrical Characteristics (NOCT)

MODULE TYPE	PE-132-600 THGB-G12R	PE-132-605 THGB-G12R	PE-132-610 THGB-G12R	PE-132-615 THGB-G12R	PE-132-620 THGB-G12R	PE-132-625 THGB-G12R	PE-132-630 THGB-G12R
Maximum Power, W (Pmp)	452.8	456.5	460.3	464.0	467.8	471.6	475.4
Open Circuit Voltage, V (Voc)	45.89	46.02	46.14	46.27	46.40	46.53	46.66
Short Circuit Current, A (Isc)	12.60	12.60	12.61	12.61	12.62	12.62	12.63
Maximum Power Voltage, V (Vmp)	38.58	38.76	38.93	39.10	39.27	39.45	39.62
Maximum Power Current, A (Vmp)	11.81	11.85	11.90	11.94	11.99	12.03	12.07
Module Fill Factor, % (FF)	78.3	78.7	79.1	79.5	79.9	80.3	80.7
Module Efficiency, % (Eff)	16.76	16.90	17.04	17.17	17.31	17.45	17.59
NOCT- Irradiance 800 W/m ² , Ambient Temperature 20°C AM1.5G, Wind speed 1m/s							Measurement Uncertainty: ±3%

Bifacial Gain		PE-132-600 THGB-G12R	PE-132-605 THGB-G12R	PE-132-610 THGB-G12R	PE-132-615 THGB-G12R	PE-132-620 THGB-G12R	PE-132-625 THGB-G12R	PE-132-630 THGB-G12R
10%	Power Pmp,W	660	665	671	676	682	688	693
20%	Power Pmp,W	720	726	732	738	744	750	756
30%	Power Pmp,W	780	786	793	800	806	812	819
Bifacial gains depends on the power plant design & albedo of installation site							Measurement Uncertainty: ±3%	



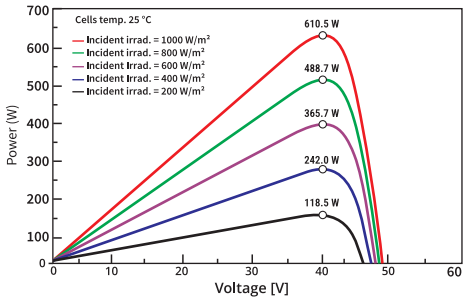
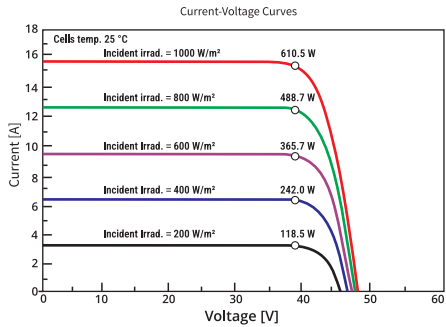
FIRST YEAR
DEGRADATION < 1.0%

YEAR 2-30 POWER
DEGRADATION < 0.40%



Temperature Characteristics

Operating Temperature	-40 °C ~ +85 °C
Maximum System Voltage	1500 VDC (IEC)
Maximum Series Fuse Rating	30 A
Nominal Operating Cell Temperature - NOCT	45±2 °C
Bifaciality factor	80±5 %



Mechanical Specifications

Cell Type	N-TYPE, 16BB
No. of Cells	132 (66X2), (105x182.3±1mm)
Dimensions	2382 X 1134 X 35mm
Weight	33.5 kg±3%
Front Glass	2.0 mm, Anti-reflection Coating
Back Glass	2.0 mm, Heat Strengthened Glass
Frame	Anodized Aluminum Alloy
Junction Box	IP68 Rated
Protection Class	Class II
Fire Performance	Class C
Output Cables	4.0 mm ² /400mm Length

Module frame available in 30x30mm (Long) & 30x15mm (Short)

Packing Configuration

Container	32'HQ	40'HQ
Pieces per Pallet	31	31
Pallets per Container	15	20
Pieces per Container	465	620



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