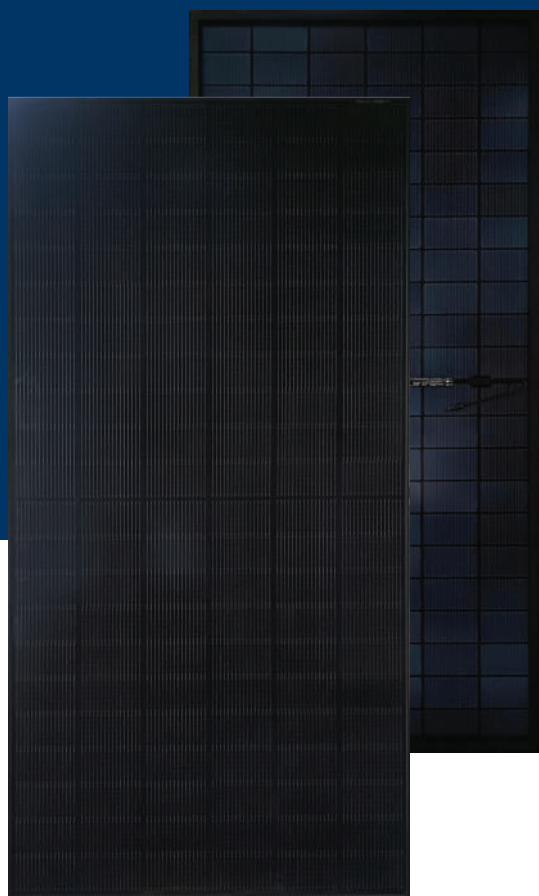




FULL BLACK SOLAR PV MODULE

132 HALF CUT N-TYPE MODULE

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

NeoBlack

Suitable for



RESIDENTIAL



COMMERCIAL

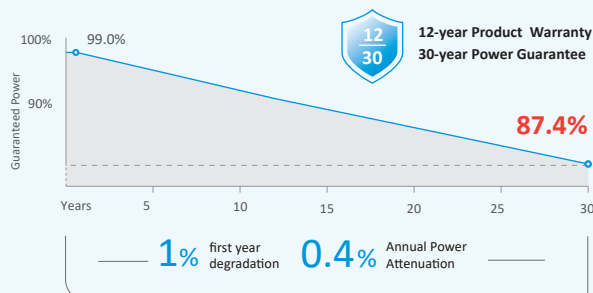


UTILITY



OFF-GRID

Performance Warranty



* Please refer to product warranty for details

Transition to BLACK-Reduce Glare for Social Harmony



Better Aesthetic & Premium Appearance

All-Black modules give a uniform elegant look to blend seamlessly with rooftops-especially modern residential homes & luxury commercial buildings.



PID & Strong weather Resistant

Excellent Anti-PID performance combined with advanced encapsulation enhances durability, ensuring reliable operation in harsh environmental conditions.



Auto Bussing & Soldering Technology

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



High Light Capture Efficiency

Engineered for superior photon absorption even in low and diffused light conditions-powered by cutting-edge in-house cell architecture.

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



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	15.63	15.64	15.65	15.66
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	78.83	79.21	79.60	79.97	80.34	80.73	81.09
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

¹ Measurement Uncertainty: ±3%

² Due 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)	456	459	463	467	471	475	479
Open Circuit Voltage, V (Voc)	45.89	46.02	46.14	46.27	46.40	46.53	46.66
Short Circuit Current, A (Isc)	12.59	12.60	12.61	12.62	12.63	12.64	12.65
Maximum Power Voltage, V (Vmp)	38.59	38.76	38.93	39.10	39.28	39.44	39.62
Maximum Power Current, A (Imp)	11.81	11.85	11.90	11.94	11.99	12.03	12.08
Module Fill Factor, % (FF)	78.87	79.20	79.61	79.95	80.36	80.72	81.13
Module Efficiency, % (Eff)	16.87	17.00	17.15	17.28	17.44	17.57	17.73

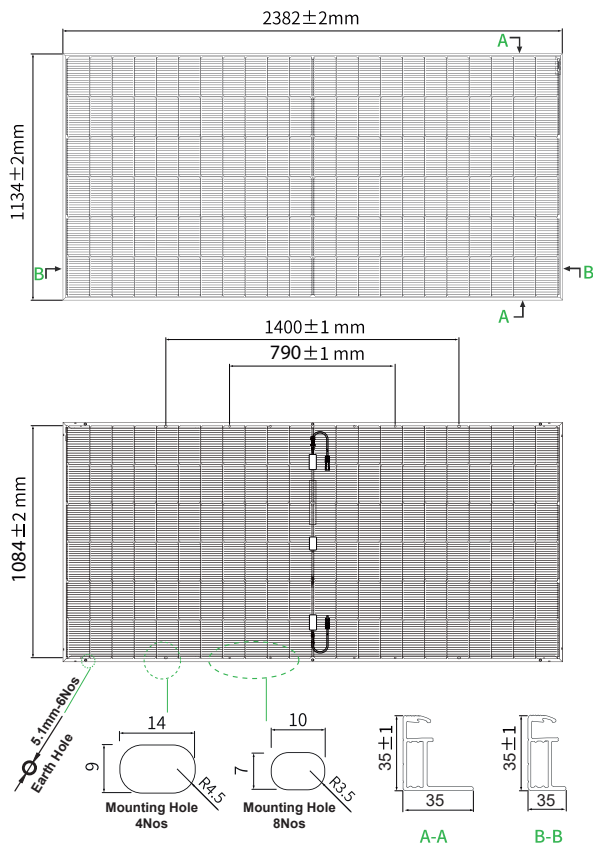
NOCT- Irradiance 800 W/m², Ambient Temperature 20°C AM1.5G, Wind speed 1m/s

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%



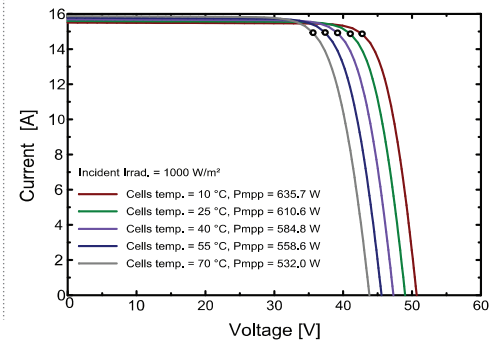
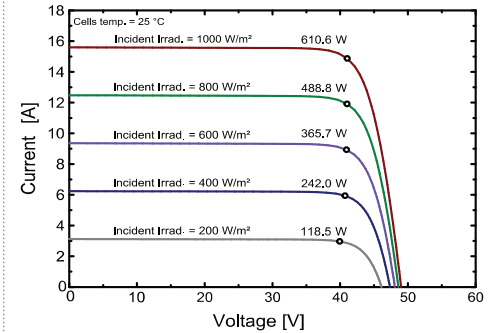
FIRST YEAR
DEGRADATION < 1.0%

YEAR 2-30 POWER
DEGRADATION < 0.40%



Application Conditions

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	(2382X1134x35)mm
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

