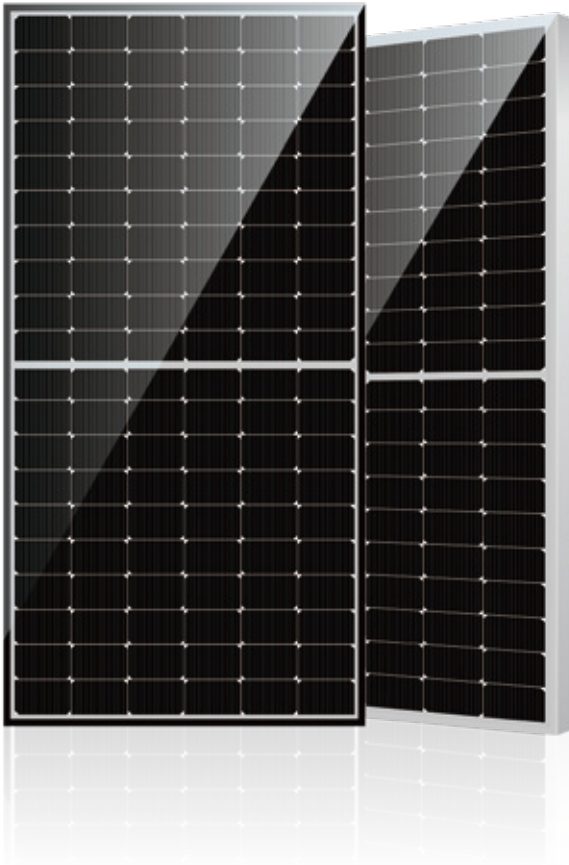


HEGATECH



HEGA-N-BG

TOPCon bifacial dual glass Mono-module

465-485W

22.4% MAX. MODULE EFFICIENCY **0~+5w** POSITIVE POWER TOLERANCE

Type: HGT-S120|M10N-xxx-BG

GRPU FRAME COLOUR



HIGH CUSTOMER VALUE

- Lower LCOE (Levelized Cost Of Energy), reduced BOS (Balance Of System) cost, shorter payback time
- More energy harvest with N-type TOPcon technology
- Designed for compatibility with existing system components



HIGH RELIABILITY

- 15 years materials warranty, 30 years power warranty.
- Mechanical performance up to 5400 Pa positive load and 2400 Pa negative load.



GRPU PV FRAME

- Use of GRPU module frames will greatly reduce carbon emissions, making PV modules highly corrosion-resistant and salt spray resistant.
- PID free better



HIGH POWER UP TO 485W

- Up to 22.4% module efficiency with high density interconnect technology. SMBB technology for better light trapping effect, lower series resistance and improved current collection



EXTENSIVE APPLICATION SCENES

- More extensive application scenes, such as BAPV, snow field, high salt mist, high humidity, strong wind and desert region

Materials and Workmanship Warranty

15
Years

1.00%

First Year Power Degradation

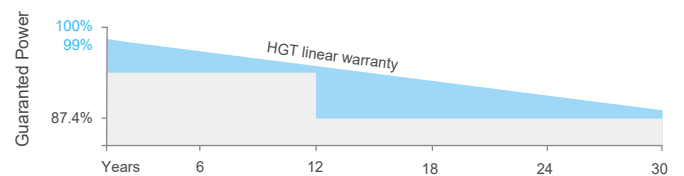
Linear Power Warranty

30
Years

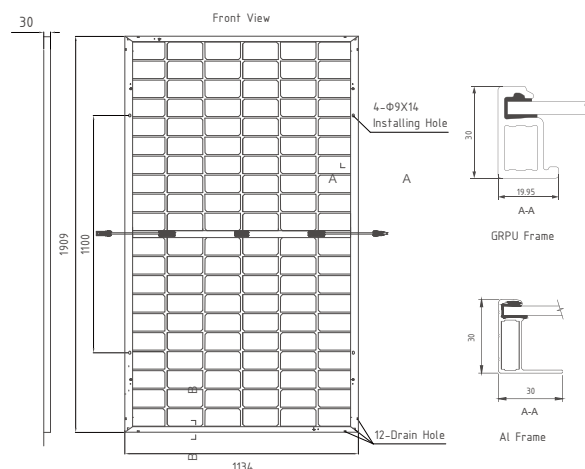
0.40%

Annual Degradation

PERFORMANCE WARRANTY



DIMENSIONS OF PV MODULE(mm)



MECHANICAL DATA

Solar Cells	N-type TOPCon
No.of cells	120 cells (6x20)
Module Dimensions	1909× 1134 × 30 mm
Weight	27.5kgs
Glass	1.6/1.8/2.0mm,High Transmission,AR Coated fully tempered Glass
Encapsulant Material	POE / EVA
Frame	Glass Fiber Reinforced Polyurethane(GRPU) / Aluminium Alloy
J-Box	IP 68 rated(3 bypass diodes)
Cables	4.0mm ² cable length +350mm/-350mm or customized length
Connector	MC4 Compatible

ELECTRICAL DATA (STC/NMOT)

Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax)	465W	349W	470W	352W	475W	356W	480W	360W	485W	364W
Power Tolerance-PMAX(W)	0 ~ +5W									
Maximum Power Voltage (Vmp)	35.50V	33.30V	35.70V	33.50V	35.90V	33.70V	36.10V	33.90V	36.3V	34.10V
Maximum Power Current (Imp)	13.10A	10.48A	13.17A	10.51A	13.24A	10.56A	13.30A	10.62A	13.37A	10.67A
Open Circuit Voltage (Voc)	42.80V	40.40V	43.00V	40.60V	43.20V	40.80V	43.40V	41.00V	43.60V	41.20V
Short Circuit Current (Isc)	13.83A	10.80A	13.91A	11.12A	13.99A	11.19A	14.08A	11.26A	14.16A	11.33A
Module Efficiency η_m (%)	21.7%		22.0%		22.0%		22.2%		22.4%	

STC: Irradiance 1000W/m², Cell Temperature 25 °C, Air Mass AM1.5. / NMOT: Irradiance at 800W/m², Ambient Temperature 20 °C, Air Mass AM1.5, Wind Speed 1m/s.

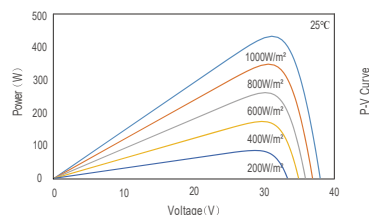
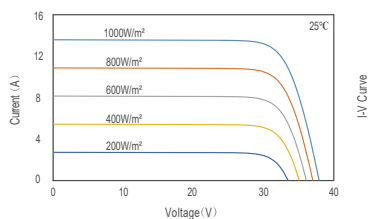
*Measuring tolerance: ±3%.

DIFFERENT BACKSIDE POWER GAIN (Reference to 485W Front)

Backside Power Gain (%)	5 %	15%	25%
Total Equivalent Power (Pmax)	510W	558W	606W
Maximum Power Voltage (Vmp)	36.30V	36.30V	36.30V
Maximum Power Current (Imp)	14.03A	15.37A	16.70A
Open Circuit Voltage (Voc)	43.20V	43.20V	43.20V
Short Circuit Current (Isc)	15.31A	16.77A	18.23A

Power Bifaciality:75+5%.

Current-Voltage & Power-Voltage Curve(475W)



TEMPERATURE RATINGS

NOCT(Nominal Operating Cell Temperature)	42 ± 2 °C
Temperature Coefficient of P _{MAX}	-0.300%/°C
Temperature Coefficient of V _{OC}	-0.250%/°C
Temperature Coefficient of I _{SC}	0.045%/°C

(Do not connect Fuse in Combiner Box with two or more strings in parallel connection)

MAXIMUM RATINGS

Operational Temperature	-40~+85°C
Maximum System Voltage	1500V/DC(IEC)
Max Series Fuse Rating	25A

WARRANTY

15 year Product Workmanship Warranty
30 year Power Warranty
1% first year degradation
0.40% Annual Power Attenuation

(Please refer to product warranty for details)

PACKAGING CONFIGURATION

Pieces per pallet	36
Pallets per container	24
Pieces per container 40'HC	864
Packaging box dimensions	1960x1140x1270mm
Packaging box weight	1013kg