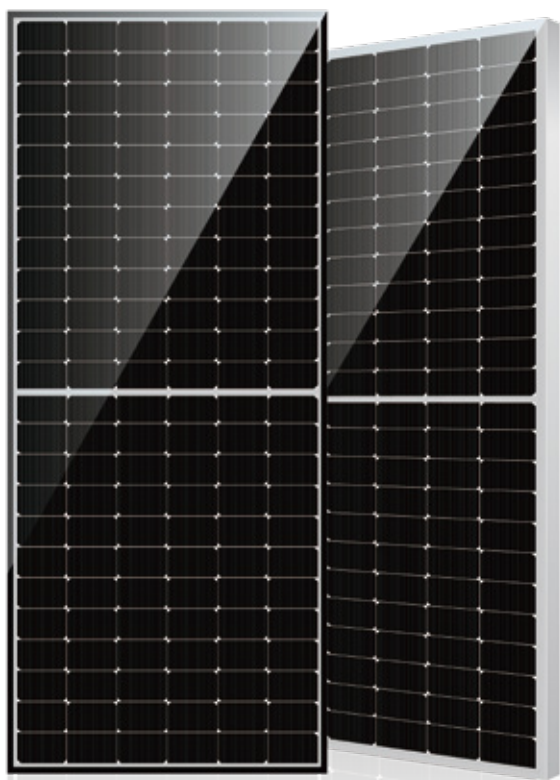


# HEGATECH



## HEGA-N-BG

TOPCon bifacial dual glass Mono-module

# 570-590W

**22.8%** MAX. MODULE EFFICIENCY **0~+5w** POSITIVE POWER TOLERANCE

Type: HGT-S144|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 590W

- Up to 22.8% 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

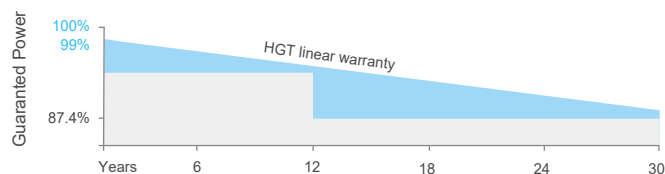
Linear Power Warranty

**30**  
Years

**0.40%**

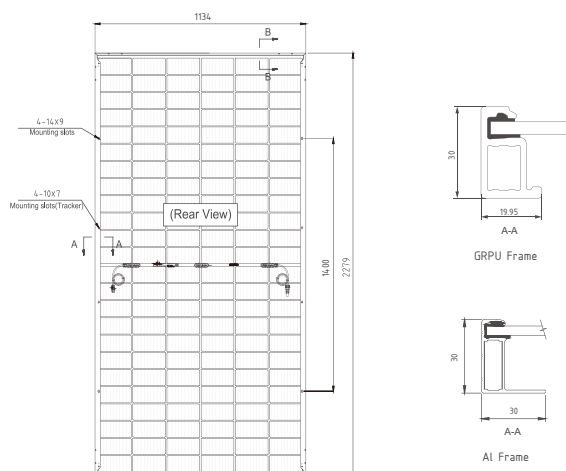
Annual Degradation

### PERFORMANCE WARRANTY



JP-AC

## DIMENSIONS OF PV MODULE(mm)



## MECHANICAL DATA

Solar Cells	N-type TOPCon
No. of cells	144 cells (6x24)
Module Dimensions	2279× 1134 × 30 mm
Weight	33.5kgs
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 <sup>2</sup> 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)	570W	433W	575W	438W	580W	443W	585W	448W	590W	453W
Power Tolerance-PMAX(W)	0 ~ +5W									
Maximum Power Voltage (Vmp)	43.10V	40.90V	43.30V	41.10V	43.50V	41.30V	43.70V	41.50V	43.9V	41.70V
Maximum Power Current (Imp)	13.23A	10.59A	13.28A	10.66A	13.34A	10.73A	13.39A	10.80A	13.44A	10.86A
Open Circuit Voltage (Voc)	51.80V	49.20V	52.00V	49.40V	52.20V	49.60V	52.40V	49.80V	52.60V	50.00V
Short Circuit Current (Isc)	14.01A	11.28A	14.08A	11.36A	14.15A	11.45A	14.22A	11.53A	14.30A	11.62A
Module Efficiency $\eta_m$ (%)	22.0%		22.2%		22.4%		22.6%		22.8%	

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25 °C, Air Mass AM1.5. / NMOT: Irradiance at 800W/m<sup>2</sup>, Ambient Temperature 20 °C, Air Mass AM1.5, Wind Speed 1m/s.

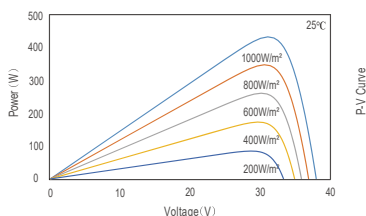
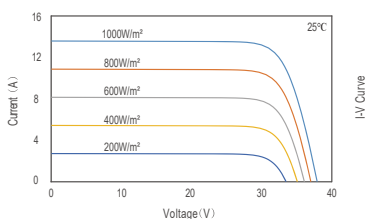
\*Measuring tolerance: ±3%.

## DIFFERENT BACKSIDE POWER GAIN (Reference to 590W Front)

Backside Power Gain (%)	5 %	15%	25%
Total Equivalent Power (Pmax)	620W	679W	738W
Maximum Power Voltage (Vmp)	43.90V	43.90V	43.90V
Maximum Power Current (Imp)	14.11A	15.46A	16.80A
Open Circuit Voltage (Voc)	52.60V	52.60V	52.60V
Short Circuit Current (Isc)	15.30A	16.75A	18.21A

Power Bifaciality: 75+5%.

## Current-Voltage & Power-Voltage Curve (575W)



## TEMPERATURE RATINGS

NOCT (Nominal Operating Cell Temperature)	42 ± 2 °C
Temperature Coefficient of P <sub>MAX</sub>	-0.300%/°C
Temperature Coefficient of V <sub>OC</sub>	-0.250%/°C
Temperature Coefficient of I <sub>SC</sub>	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	20
Pieces per container 40'HC	720
Packaging box dimensions	2340x1120x1270mm
Packaging box weight	1095kg