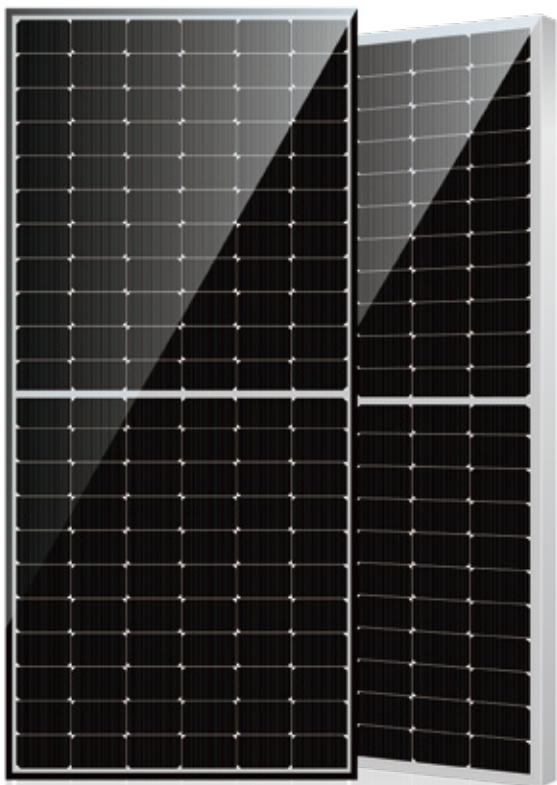


HEGATECH



HEGA-N-BG

TOPCon bifacial dual glass Mono-module

520-540W

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

Type: HGT-S132|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 540W

- 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

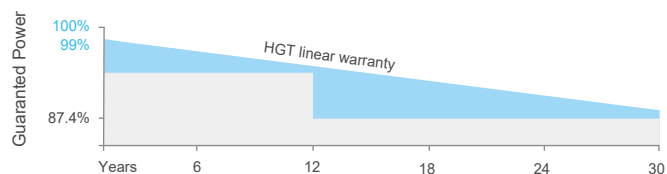
Linear Power Warranty

30
Years

0.40%

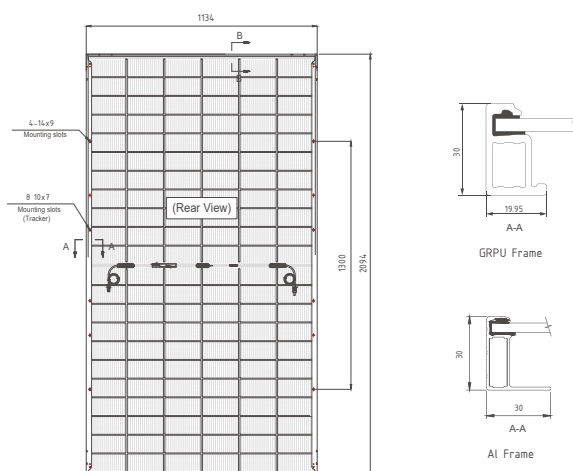
Annual Degradation

PERFORMANCE WARRANTY



JP-AC

DIMENSIONS OF PV MODULE(mm)



MECHANICAL DATA

Solar Cells	N-type TOPCon
No.of cells	132cells (6x22)
Module Dimensions	2094× 1134 × 30 mm
Weight	30.5kgs
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)	520W	393W	525W	398W	530W	403W	535W	408W	540W	413W
Power Tolerance-PMAX(W)	0 ~ +5W									
Maximum Power Voltage (Vmp)	38.70V	35.90V	38.90V	36.10V	39.10V	36.30V	39.30V	36.50V	39.5V	36.70V
Maximum Power Current (Imp)	13.43A	10.95A	13.49A	11.02A	13.55A	11.10A	13.61A	11.18A	13.67A	11.25A
Open Circuit Voltage (Voc)	46.50V	43.80V	46.70V	44.00V	46.90V	44.20V	47.10V	44.40V	47.30V	44.60V
Short Circuit Current (Isc)	14.08A	11.50A	14.17A	11.60A	14.26A	11.69A	14.35A	11.78A	14.44A	11.33A
Module Efficiency η_m (%)	21.8%		22.1%		22.3%		22.5%		22.7%	

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 540W Front)

Backside Power Gain (%)	5 %	15%	25%
Total Equivalent Power(Pmax)	567W	621W	675W
Maximum Power Voltage (Vmp)	39.50V	39.50V	39.50V
Maximum Power Current (Imp)	14.35A	15.72A	17.09A
Open Circuit Voltage (Voc)	47.30V	47.30V	47.30V
Short Circuit Current (Isc)	15.57A	17.05A	18.53A

Power Bifaciality:75±5%.

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)

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)

MAXIMUM RATINGS

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

PACKAGING CONFIGURATION

Pieces per pallet	36
Pallets per container	22
Pieces per container 40'HC	792
Packaging box dimensions	2145x1140x1270mm
Packaging box weight	1018kg

Current-Voltage &Power-Voltage Curve(530W)

