

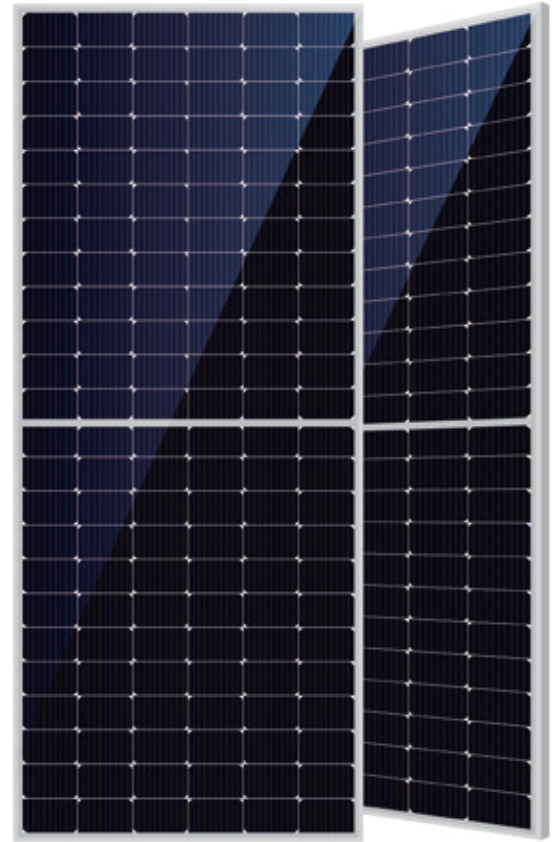
# HEGA-Mo-BG Series

182mm bifacial dual glass half cut cell technology

# 530-550W

**21.3%** MODULE EFFICIENCY    **0~+5w** POSITIVE POWER TOLERANCE

TYPE: HGT-S144|M10H-XXX-BG



## 550w

**Max.** Power Output



### HIGH CUSTOMER VALUE

- Lower LCOE (Levelized Cost Of Energy), reduced BOS (Balance Of System) cost, shorter payback time
- Lower guaranteed first year and annual degradation
- Designed for compatibility with existing mainstream system components



### HIGH RELIABILITY

- Minimized micro-cracks with innovation non-destructive cutting technology ensured PID resistance through cell process and module material control.
- Mechanical performance up to 5400 Pa positive load and 2400 Pa negative load



### HIGH ENERGY YIELD

- Excellent IAM (Incident Angle Modifier) and low irradiation performance, validated by 3rd party certifications
- The unique design provides optimized energy production under inter-row shading conditions



### HIGH POWER UP TO 550W

- Large area cells based on 182mm silicon wafers and half-cut cell technology
- Up to 21.3% module efficiency with high density interconnect technology
- Multi-busbar technology for better light trapping effect, lower series resistance and improved current collection

Materials and workmanship warranty

**12**  
Years

**2.00%**

First Year Power Degradation

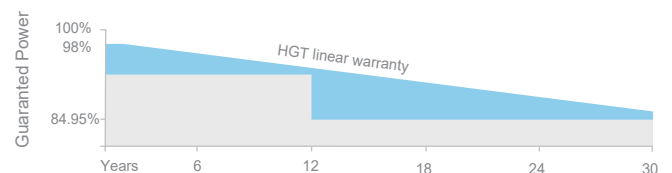
Linear power warranty

**30**  
Years

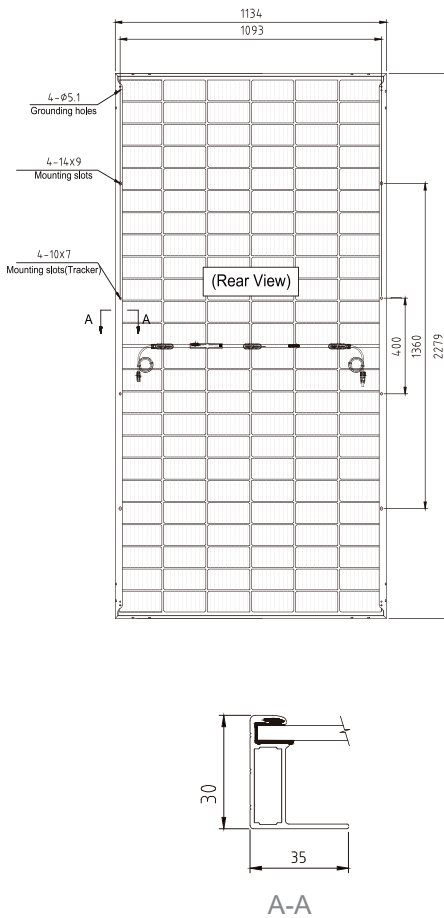
**0.45%**

Annual Degradation

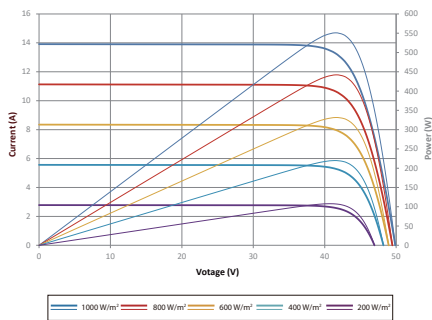
### PERFORMANCE WARRANTY



## DIMENSIONS OF PV MODULE(mm)



## Current-Voltage & Power-Voltage Curve(550W)



## ELECTRICAL DATA (STC)

	530W	535W	540W	545W	550W
Maximum Power (Pmax)	530W	535W	540W	545W	550W
Power Tolerance-PMAX(W)	0 ~ +5W				
Maximum Power Voltage (Vmp)	40.8V	41.0V	41.2V	41.4V	41.6V
Maximum Power Current (Imp)	13.00A	13.05A	13.11A	13.17A	13.22A
Open Circuit Voltage (Voc)	49.0V	49.2V	49.4V	49.6V	49.8V
Short Circuit Current (Isc)	13.76A	13.81A	13.87A	13.81A	13.89A
Module Efficiency $\eta_m$ (%)	20.5%	20.7%	20.9%	21.1%	21.3%

STC: Irradiance 1000W/m<sup>2</sup>, Module Temperature 25°C, AM=1.5;  
\*Tolerance of Pmax is within ±3%.

## ELECTRICAL DATA (NMOT)

	400.6W	404.3W	408.0W	411.5W	415W
Maximum Power (Pmax)	400.6W	404.3W	408.0W	411.5W	415W
Maximum Power Voltage (Vmp)	38.2V	38.4V	38.6V	38.7V	38.9V
Maximum Power Current (Imp)	10.47A	10.53A	10.58A	10.63A	10.67A
Open Circuit Voltage (Voc)	46.3V	46.4V	46.5V	46.7V	46.9V
Short Circuit Current (Isc)	11.02A	11.08A	11.13A	11.18A	11.22A

NMOT: Irradiance at 800W/m<sup>2</sup>, Ambient Temperature 20°C, AM=1.5, Wind Speed 1m/s.

## ELECTRICAL DATA ( AT 10% BIFACIAL POWER OUTPUT )

	583W	588.5W	594W	599W	605W
Maximum Power (Pmax)	583W	588.5W	594W	599W	605W
Maximum Power Voltage (Vmp)	40.8V	41V	41.2V	41.4V	41.6V
Maximum Power Current (Imp)	14.30A	14.36A	14.42A	14.49A	14.54A
Open Circuit Voltage (Voc)	49.0V	49.2V	49.4V	49.6V	49.8V
Short Circuit Current (Isc)	15.14A	15.19A	15.26A	15.32A	15.39A

\*Rear side power gain: The additional gain from the rear side compared to the power of the front side at the STC. It depends on mounting (structure, height, tilt angle etc.) and albedo of the ground.

## MECHANICAL DATA

Solar Cells	Monocrystalline silicon 182mm
No. of cells	144 cells (6x24)
Module Dimensions	2279 × 1134 × 30 mm
Weight	29 kg
Glass	2.0+2.0 mm , High Transmission, AR Coated Heat Strengthened Glass
Encapsulant Material	EVA
Frame	Anodized Aluminium Alloy (silver/black)
J-Box	IP 68 rated (3 bypass diodes)
Cables	4.0mm <sup>2</sup> , cable length +350mm/-350mm or customized length
Connector	MC4 Compatible

## TEMPERATURE RATINGS

NMOT(Nominal Operating Cell Temperature)	42 ± 2 °C
Temperature Coefficient of P <sub>MAX</sub>	-0.36%/°C
Temperature Coefficient of V <sub>OC</sub>	-0.28%/°C
Temperature Coefficient of I <sub>SC</sub>	0.050%/°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

12 year Product Workmanship Warranty
30 year Power Warranty
2% first year degradation
0.45% 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