

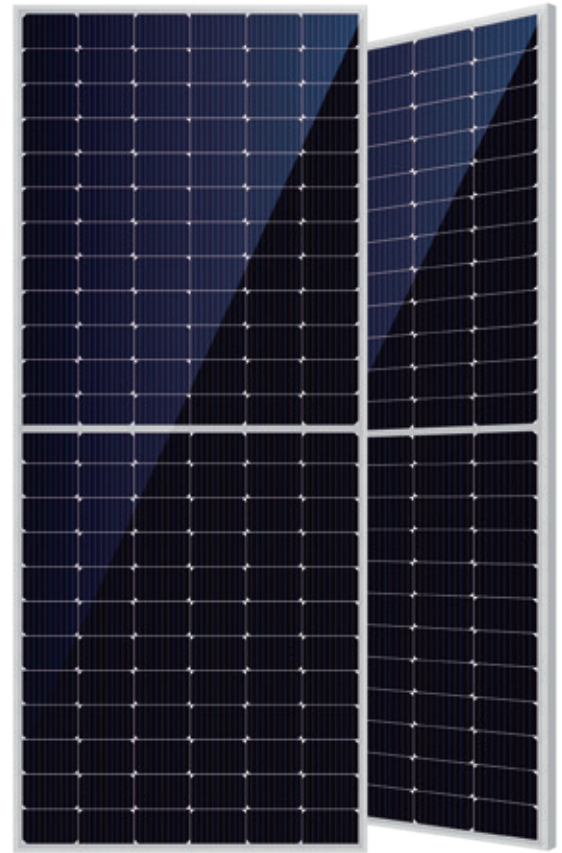
# HEGA-Mo Series

182mm half cut cell technology

# 540-560W

**21.7%** MODULE EFFICIENCY **0~+5w** POSITIVE POWER TOLERANCE

TYPE: HGT-S144|M10H-XXX



## 560w

**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 560W

- Large area cells based on 182mm silicon wafers and half-cut cell technology
- Up to 21.7% module efficiency with high density interconnect technology
- Multi-busbar technology for better light trapping effect, lower series resistance and improved current collection

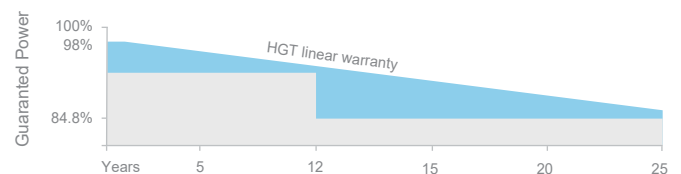
Materials and workmanship warranty **12** Years

**2.00%**  
First Year Power Degradation

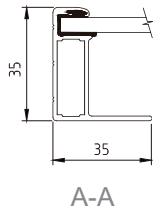
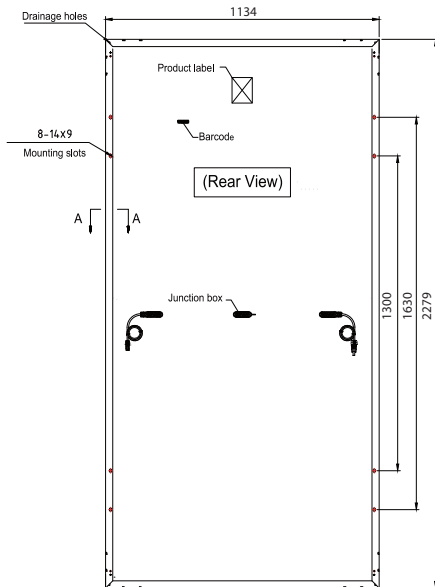
Linear power warranty **25** Years

**0.55%**  
Annual Degradation

### PERFORMANCE WARRANTY



## DIMENSIONS OF PV MODULE(mm)



## ELECTRICAL DATA (STC)

	540W	545W	550W	555W	560W
Maximum Power (Pmax)	540W	545W	550W	555W	560W
Power Tolerance-PMAX(W)	0 ~ +5W				
Maximum Power Voltage (Vmp)	41.2V	41.4V	41.6V	41.8V	42.0V
Maximum Power Current (Imp)	13.11A	13.17A	13.23A	13.29A	13.35A
Open Circuit Voltage (Voc)	49.6V	49.8V	50.0V	50.2V	50.4V
Short Circuit Current (Isc)	13.87A	13.93A	13.99A	14.05A	14.11A
Module Efficiency $\eta_m$ (%)	20.90%	21.10%	21.30%	21.50%	21.70%

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25 °C, Air Mass AM1.5.  
\*Measuring tolerance: ±3%.

## ELECTRICAL DATA (NMOT)

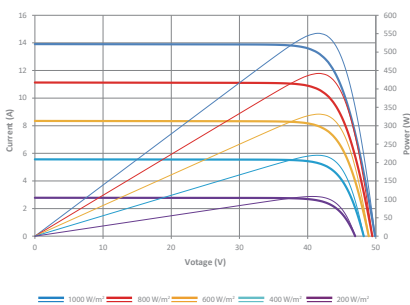
	402W	406W	410W	414W	418W
Maximum Power (Pmax)	402W	406W	410W	414W	418W
Maximum Power Voltage (Vmp)	38.4V	38.6V	38.8V	39.0V	39.2V
Maximum Power Current (Imp)	10.49A	10.54A	10.49A	10.54A	10.58A
Open Circuit Voltage (Voc)	46.3V	46.4V	46.6V	46.8V	47.0V
Short Circuit Current (Isc)	11.18A	11.23A	11.28A	11.33A	11.38A

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

## MECHANICAL DATA

Solar Cells	Monocrystalline silicon 182mm
No. of cells	144 cells (6x24)
Module Dimensions	2279 × 1134 × 35 mm
Weight	29.0 kg
Glass	High Transmission, AR Coated fully tempered Glass
Encapsulant Material	EVA
Frame	Anodized 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

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



## 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>	-0.304%/°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
25 year Power Warranty
2% first year degradation
0.55% Annual Power Attenuation

(Please refer to product warranty for details)

## PACKAGING CONFIGURATION

Pieces per pallet	31
Pallets per container	20
Pieces per container 40'HC	620
Packaging box dimensions	2330x1140x1270mm
Packaging box weight	949kg