

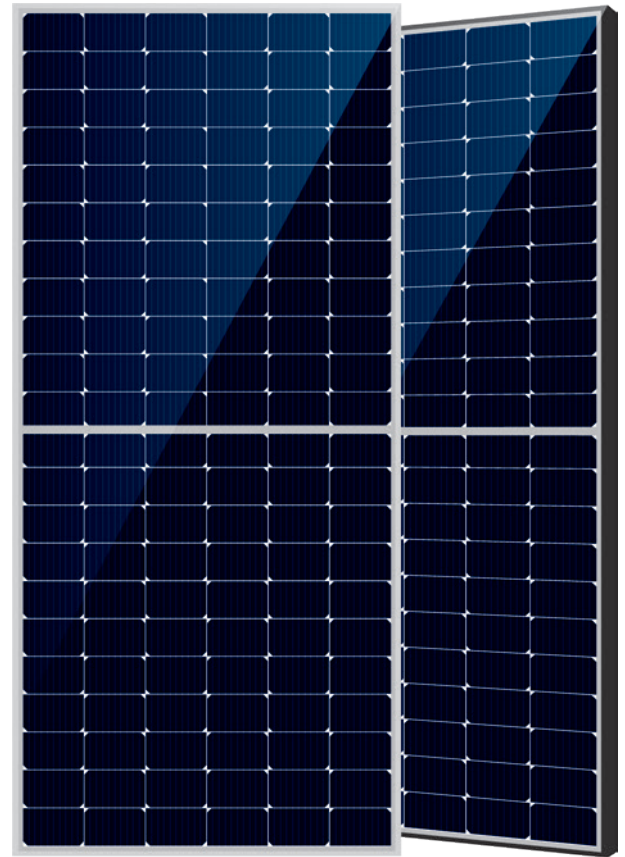
# HEGA-Mo Series

210mm half cut cell technology

# 650-670W

**21.6%** MODULE EFFICIENCY **0~+5w** POSITIVE POWER TOLERANCE

TYPE:HGT-S132|M12H-XXX



## 670w

**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 670W

- Large area cells based on 210mm silicon wafers and half-cut cell technology
- Up to 21.6% module efficiency with high density interconnect technology
- Multi-busbar technology for better light trapping effect, lower series resistance and improved current collection

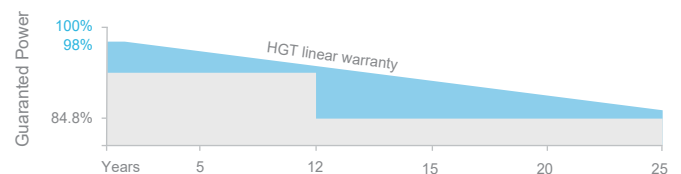
Materials and workmanship warranty  
**12**  
Years

**2.00%**  
First Year Power Degradation

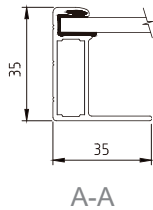
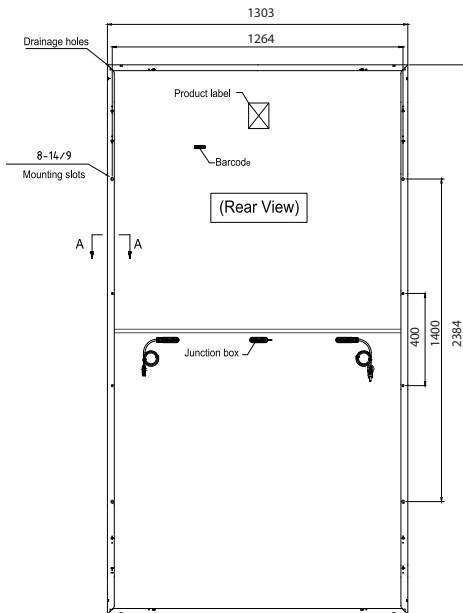
Linear power warranty  
**25**  
Years

**0.55%**  
Annual Degradation

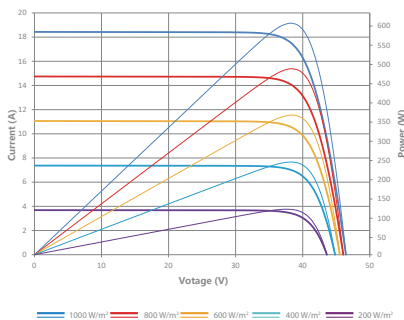
### PERFORMANCE WARRANTY



## DIMENSIONS OF PV MODULE(mm)



## Current-Voltage & Power-Voltage Curve (670W)



## ELECTRICAL DATA (STC)

	650W	655W	660W	665W	670W
Maximum Power (Pmax)	650W	655W	660W	665W	670W
Power Tolerance-P <sub>MAX</sub> (W)	0 ~ +5W				
Maximum Power Voltage (Vmp)	37.6V	37.8V	38.0V	38.2V	38.4V
Maximum Power Current (Imp)	17.29A	17.33A	17.37A	17.41A	17.45A
Open Circuit Voltage (Voc)	45.0V	45.20V	45.40V	45.60V	45.80V
Short Circuit Current (Isc)	18.23A	18.29A	18.35A	18.41A	18.46A
Module Efficiency $\eta_m$ (%)	20.9%	21.1%	21.2%	21.4%	21.6%

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

## ELECTRICAL DATA (NMOT)

	491W	495W	499W	503W	507W
Maximum Power (Pmax)	491W	495W	499W	503W	507W
Maximum Power Voltage (Vmp)	34.86V	35.05V	35.24V	35.42V	35.61V
Maximum Power Current (Imp)	14.09A	14.13A	14.16A	14.19A	14.23A
Open Circuit Voltage (Voc)	42.30V	42.48V	42.67V	42.86V	43.04V
Short Circuit Current (Isc)	14.89A	14.93A	14.97A	15.01A	15.06A

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 210mm
No. of cells	132 cells (6x22)
Module Dimensions	2384 × 1303 × 35 mm
Weight	34.0 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

## 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	30A

## 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	18
Pieces per container 40'HC	558
Packaging box dimensions	2520x1140x1500mm
Packaging box weight	1200kg