HEGATECH

HEGA-Mo Series

166mm half cut cell technology

440-460W

21.1% MODULE EFFICIENCY

0~+5w POSITIVE POWER TOLERANCE

TYPE: HGT-S144|M6H-XXX

460w

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



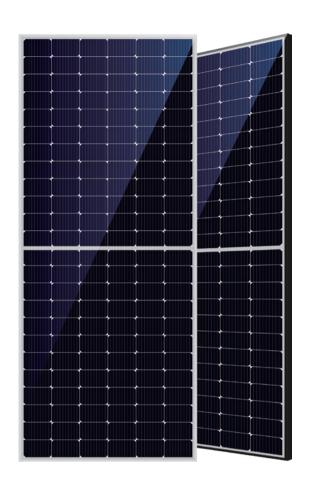
HIGH ENERGY YIELD

- 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 460W

- Large area cells based on 166mm silicon wafers and half-cut cell technology
- Up to 21.1% module efficiency with high density interconnect
- Multi-busbar technology for better light trapping effect, lower series resistance and improved current collection



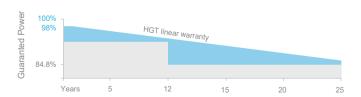
Materials and workmanship warranty

2.00%

First Year Power Degradation

Linear power warranty Years 0.55%

PERFORMANCE WARRANTY











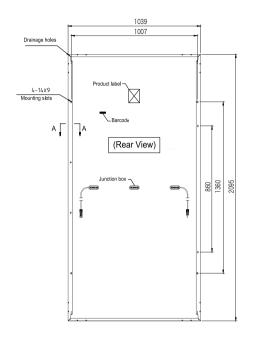


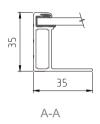




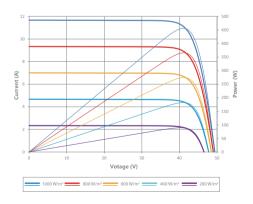
HEGA-Mo 440-460W

DIMENSIONS OF PV MODULE(mm)





Current-Voltage & Power-Voltage Curve (455W)



ELECTRICAL DATA (STC)

Maximum Power (Pmax)	440W	445W	450W	455W	460W
Power Tolerance-P _{MAX} (W)			0 ~ +5W		
Maximum Power Voltage (Vmp)	41.0V	41.2V	41.4V	41.6V	41.8V
Maximum Power Current (Imp)	10.74A	10.81A	10.87A	10.94A	11.01A
Open Circuit Voltage (Voc)	48.8V	49.0V	49.2V	49.4V	49.6V
Short Circuit Current (Isc)	11.47A	11.54A	11.61A	11.68A	11.75A
Module Efficiency nm(%)	20.2%	20.4%	20.7%	20.9%	21.1%

STC: Irradiance 1000W/m², Cell Temperature 25 $^{\circ}\mathrm{C}$, Air Mass AM1.5. *Measuring tolerance: $\pm 3\%$.

ELECTRICAL DATA (NMOT)

Maximum Power (Pmax)	327.5W	331.2W	335W	338.6W	342.3W
Maximum Power Voltage (Vmp)	38.1V	38.3V	38.5V	38.7V	38.9V
Maximum Power Current (Imp)	8.59A	8.65A	8.70A	8.75A	8.80A
Open Circuit Voltage (Voc)	46.4V	46.6V	46.8V	47.0V	47.2V
Short Circuit Current (Isc)	9.08A	9.14A	9.19A	9.24A	9.29A

NMOT: Irradiance at 800W/m²,, Ambient Temperatue 20 °C, Air Mass AM1.5, Wind Speed 1m/s.

MECHANICAL DATA

Solar Cells	Monocrystalline silicon 166mm
No.of cells	144 cells (6x24)
Module Dimensions	2095 × 1039 × 35 mm
Weight	23.5 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 ² cable length +350mm/-350mm or customized length
Connector	MC4 Compatible

TEMPERATURE RATINGS

42 ± 2 °C	
-0.36%/°C	
-0.304%/°C	
0.050%/°C	

(Do not connect Fuse in Combiner Box with two or more strings in parallel connection)

WARRANTY

12 year Product Workmanship Warranty	
25 year Power Warranty	
2% first year degradation	
0.55% Annual Power Attenuation	

MAXIMUM RATINGS

-40~+85°C	
1500V/DC(IEC)	
20A	

PACKAGING CONFIGURATION

Pieces per pallet	31
Pallets per container	22
Pieces per container 40'HC	682
Packaging box dimensions	2145X1140X1258mm
Packaging box weight	784kg

