

HEGA-Mo Series

182mm half cut cell technology

495-510W

21.5% MODULE EFFICIENCY **0~+5w** POSITIVE POWER TOLERANCE

Type: HGT-S132|M10H-xxx

510w

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



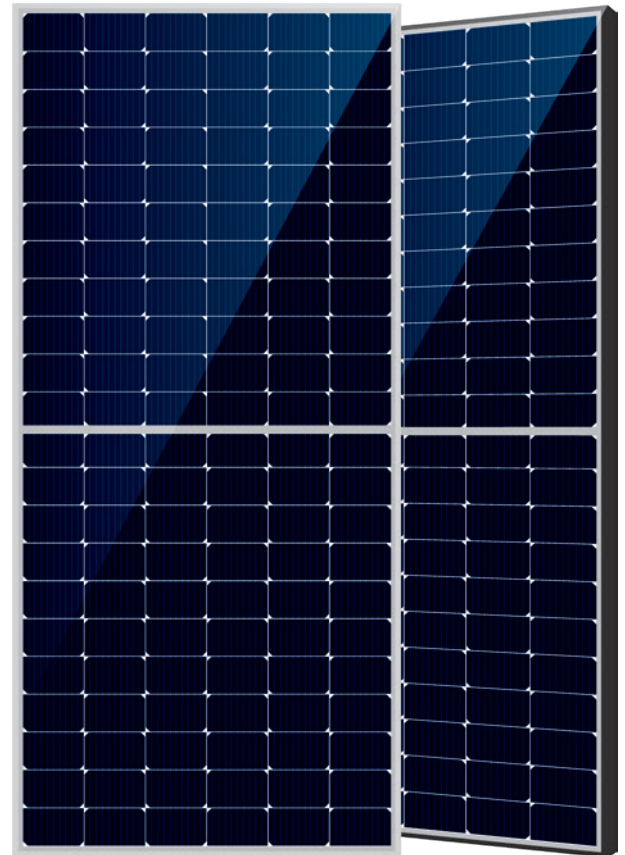
HIGH ENERGY YIELD

- 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 510W

- Large area cells based on 182mm silicon wafers and half-cut cell technology
- Up to 21.5% 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

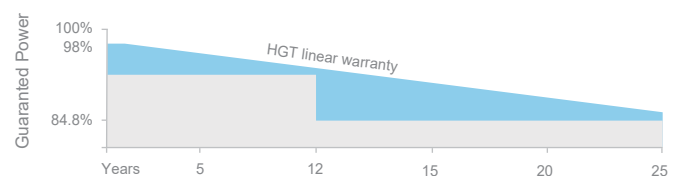
Linear power warranty

25
Years

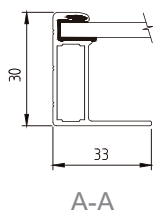
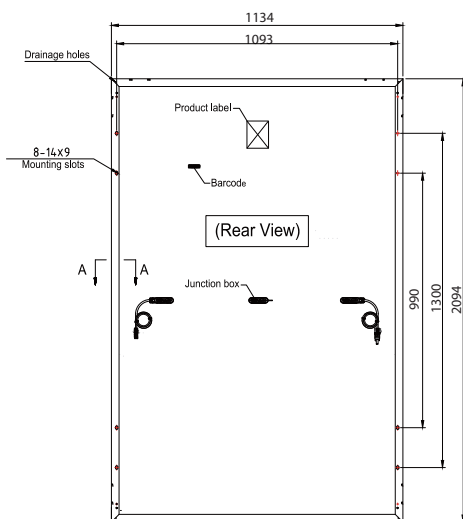
0.55%

Annual Degradation

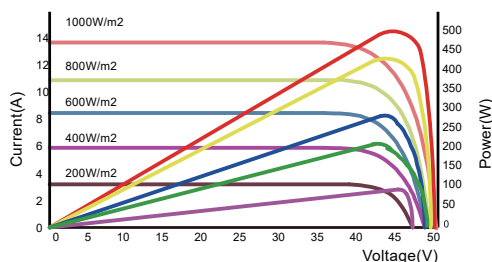
PERFORMANCE WARRANTY



DIMENSIONS OF PV MODULE(mm)



Current-Voltage & Power-Voltage Curve(500W)



ELECTRICAL DATA (STC)

Parameter	495W	500W	505W	510W
Maximum Power (Pmax)	495W	500W	505W	510W
Power Tolerance-P _{MAX} (W)	0 ~ +5W			
Maximum Power Voltage (Vmp)	37.7V	37.9V	38.1V	38.3V
Maximum Power Current (Imp)	13.13A	13.19A	13.25A	13.31A
Open Circuit Voltage (Voc)	45.50V	45.70V	45.90V	46.10V
Short Circuit Current (Isc)	13.63A	13.72A	13.81A	13.90A
Module Efficiency η_m (%)	20.8%	21.1%	21.3%	21.5%

STC: Irradiance 1000W/m², Cell Temperature 25 °C, Air Mass AM1.5.
*Measuring tolerance: ±3%.

ELECTRICAL DATA (NMOT)

Parameter	365W	370W	373.7W	377.4W
Maximum Power (Pmax)	365W	370W	373.7W	377.4W
Maximum Power Voltage (Vmp)	35.0V	35.2V	35.4V	35.6V
Maximum Power Current (Imp)	10.37A	10.42A	10.47A	10.52A
Open Circuit Voltage (Voc)	42.1V	42.3V	42.5V	42.7V
Short Circuit Current (Isc)	10.99A	11.11A	11.19A	11.26A

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

MECHANICAL DATA

Solar Cells	Monocrystalline silicon 182mm
No. of cells	132 cells (6x22)
Module Dimensions	2094 × 1134 × 30 mm
Weight	26.5 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

NMOT(Nominal Operating Cell Temperature)	42 ± 2 °C
Temperature Coefficient of P _{MAX}	-0.36%/°C
Temperature Coefficient of V _{OC}	-0.304%/°C
Temperature Coefficient of I _{SC}	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	36
Pallets per container	22
Pieces per container 40'HC	792
Packaging box dimensions	2145x1140x1270mm
Packaging box weight	1000kg