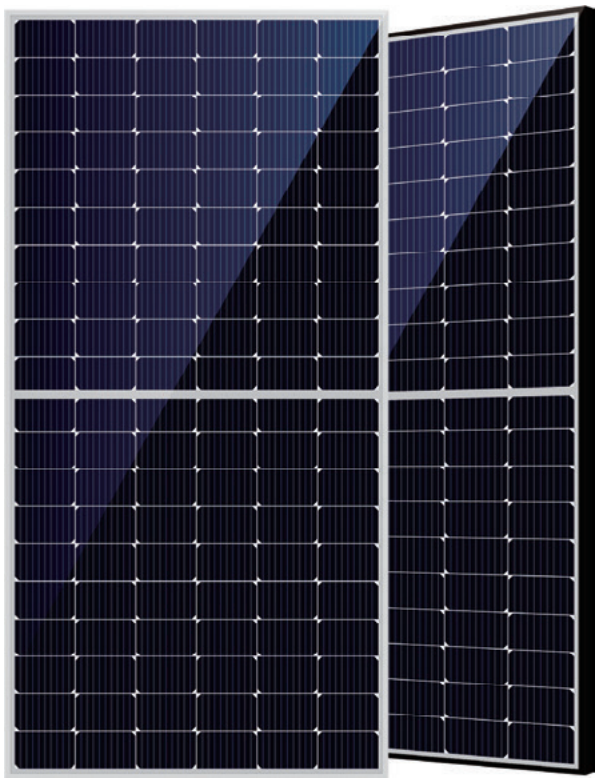
HEGA-Mo Series

182mm half cut cell technology



445-465W

21.5% MODULE EFFICIENCY

0~+5w POSITIVE POWER TOLERANCE

TYPE: HGT-S120|M10H-XXX

465w

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 465W

- 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

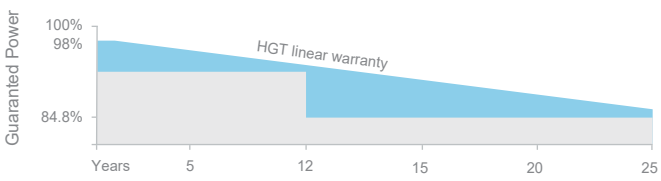
Materials and workmanship warranty **12 Years**

2.00% First Year Power Degradation

Linear power warranty **25 Years**

0.55% Annual Degradation

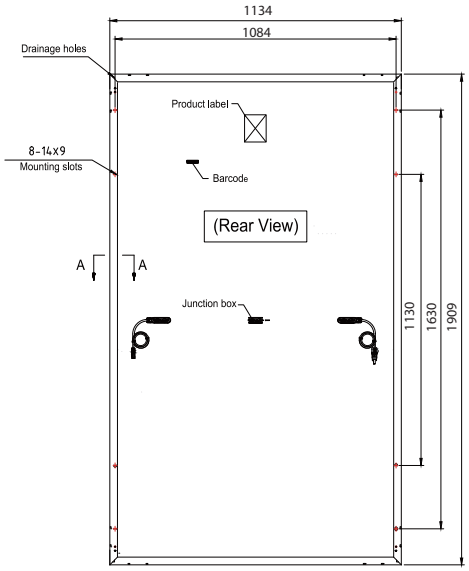
PERFORMANCE WARRANTY

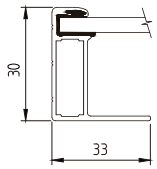


HEGA-MO 445-465W

HEGATECH

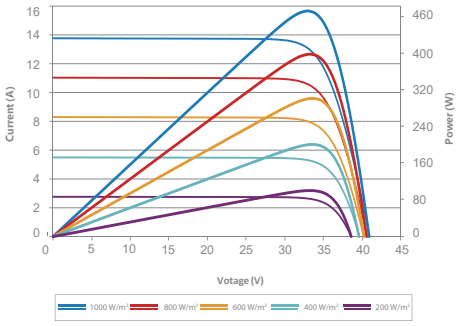
DIMENSIONS OF PV MODULE(mm)





A-A

Current-Voltage &Power-Voltage Curve(460W)



ELECTRICAL DATA (STC)

Maximum Power (Pmax)	445W	450W	455W	460W	465W
Power Tolerance-P_{MAX}(W)			0 ~ +5W		
Maximum Power Voltage (Vmp)	34.10V	34.30V	34.50V	34.70V	34.90V
Maximum Power Current (Imp)	13.06A	13.14A	13.22A	13.30A	13.38A
Open Circuit Voltage (Voc)	41.20V	41.40V	41.60V	41.80V	42.00V
Short Circuit Current (Isc)	13.49A	13.60A	13.71A	13.82A	13.93A
Module Efficiency η_m(%)	20.6%	20.8%	21.0%	21.2%	21.5%

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

ELECTRICAL DATA (NMOT)

Maximum Power (Pmax)	362W	365W	369W	372W	376W
Maximum Power Voltage (Vmp)	35.00V	35.20V	35.40V	35.60V	35.8V
Maximum Power Current (Imp)	10.33A	10.37A	10.41A	10.45A	10.49A
Open Circuit Voltage (Voc)	41.50V	41.70V	41.90V	42.10V	42.30V
Short Circuit Current (Isc)	10.90A	10.94A	10.98A	11.02A	11.06A

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

MECHANICAL DATA

Solar Cells	Monocrystalline silicon 182mm
No.of cells	120 cells (6x20)
Module Dimensions	1909 × 1134 × 30 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	4.0mm² 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

MAXIMUM RATINGS

Operational Temperature	-40~+85℃
Maximum System Voltage	1500V/DC(IEC)
Max Series Fuse Rating	25A

(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

((Please refer to product warranty for details)

PACKAGING CONFIGURATION

Pieces per pallet	36
Pallets per container	24
Pieces per container 40'HC	864
Packaging box dimensions	1960x1140x1270mm
Packaging box weight	885kg

HEGATECH NEW ENERGY

WUXI CITY HEGUANG NEW ENERGY TECHNOLOGY CO., LTD.

Add: Huaqing Chuangzhi Park,Huishan Economic Development Zone,Wuxi,China

Email: info@hega-tech.com Website: https://en.hega-tech.com