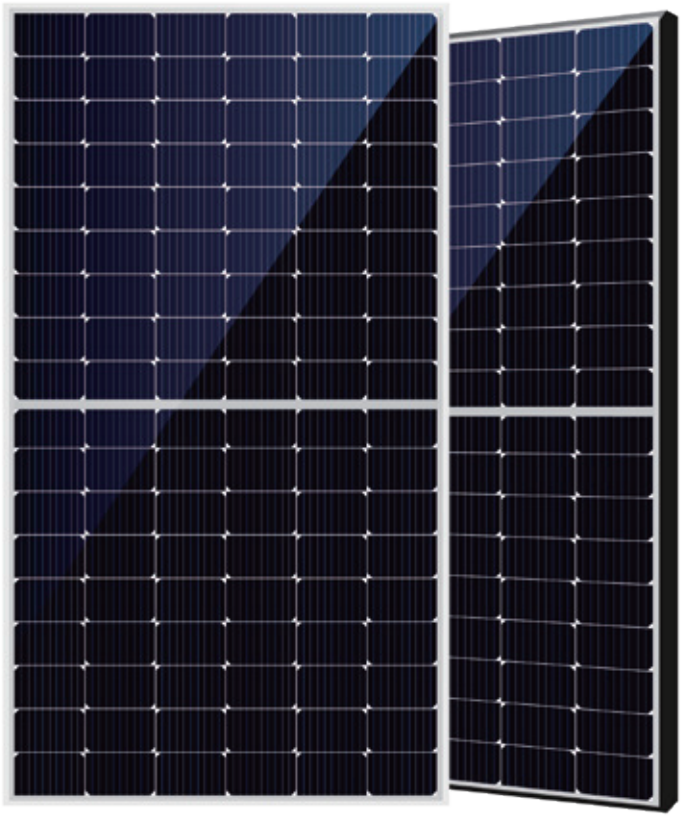
HEGATECH

HEGA-Mo Series

182mm half cut cell technology



400-420W

21.5% MODULE EFFICIENCY

0~+5w POSITIVE POWER TOLERANCE

TYPE: HGT-S108|M10H-XXX

420w

Max. Power Output

Materials and workmanship warranty **12 Years**

-2.00% First Year Power Degradation

Linear power warranty **25 Years**

- 0.55% Annual Degradation

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
Higher return on Investment

HIGH RELIABILITY

Minimized micro-cracks with innovation non-destructive cutting technology ensured stability through cell processand module material control. Mechanical performance up to 5400 Pa positive load and 2400 Pa negative load.

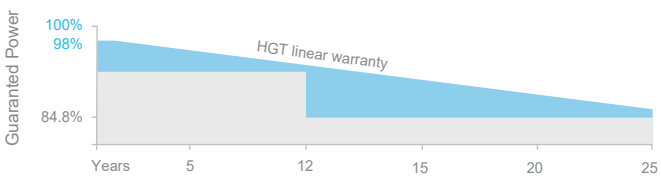
HIGH ENERGY YIELD

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 420W

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

PERFORMANCE WARRANTY



HEGA-Mo 400-420W

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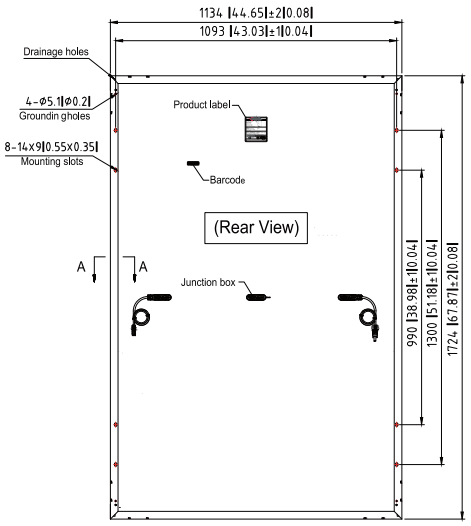
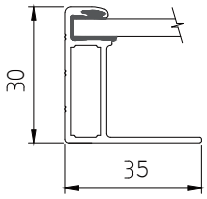
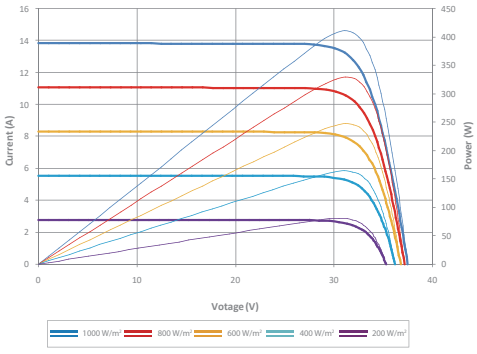
DIMENSIONS OF PV MODULE(mm)





A-A

Current-Voltage &Power-Voltage Curve(410W)



ELECTRICAL DATA (STC)

Peak Power Watts-P_{MAX}(Wp)*	400	405	410	415	420
Power Tolerance-P_{MAX}(W)			0 ~ +5		
Maximum Power Voltage-V_{MPP}(V)	31.10V	31.30V	31.50V	31.70V	31.90V
Maximum Power Current-I-I_{MPP}(A)	12.83A	12.91A	12.99A	13.07A	13.16A
Open Circuit Voltage-V_{OC}(V)	37.00V	37.20V	37.40V	37.60V	37.80V
Short Circuit Current-I_{SC}(A)	13.73A	13.81A	13.89A	13.97A	14.04A
Module Efficiency η_m(%)	20.50%	20.70%	21.00%	20.20%	21.50%

STC: Irradiance 1000W/m², Module Temperature 25℃, AM=1.5.
*Tolerance of Pmax is within ±3%.

ELECTRICAL DATA (NMOT)

Maximum Power-P_{MAX}(Wp)	294.9W	298.6W	302.3W	306.0W	309.6W
Maximum Power Voltage-V_{MPP}(V)	28.4V	28.6V	28.8V	29.0V	29.2V
Maximum Power Current-I_{MPP}(A)	10.38A	10.44A	10.50A	10.56A	10.62A
Open Circuit Voltage-V_{OC}(V)	34.4V	34.6V	34.8V	35.0V	35.2V
Short Circuit Current-I_{SC}(A)	10.93A	10.98A	11.04A	11.10A	11.16A

NMOT:Irradiance at 800W/m², Ambient Temperature 20℃, AM=1.5, Wind Speed 1m/s.

MECHANICAL DATA

Solar Cells	Monocrystalline silicon 182 mm
No.of cells	108 cells (6x18)
Module Dimensions	1724 × 1134 × 30 mm
Weight	21.5kg
Glass	3.2 mm, High Transmission, AR Coated fully tempered glass
Encapsulant Material	EVA
Backsheet	white
Frame	30 mm Anodized Aluminium Alloy(silver/black)
J-Box	IP 68 rated(3 bypass diodes)
Cables	4.0mm² cable length +350mm/-350mm or customized length
Connector	PV-GZX1500
FireSafty&Rate:	Class C

TEMPERATURE RATINGS

NMOT(Nominal Moudle OperatingTemprature)	42℃(±2℃)
Temprature Coefficient of P_{MAX}	- 0.36%/℃
Temprature Coefficient of V_{OC}	- 0.304%/℃
Temprature Coefficient of I_{SC}	0.05%/℃

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 Liner 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	26
Pieces per container 40'HC	936
Packaging box dimensions	1770x1140x1270mm
Packaging box weight	812kg

HEGATECH NEW ENERGY

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