GKA120M
300-340 Watt
HALF CELL MODULE

5BB
156.75mm
158.75mm

GAMKO SOLAR

KEY FEATURES

5 Busbar Solar Cell:
5 busbar cell design improves module efficiency and offers better aesthetic appearance for rooftop in stallation.

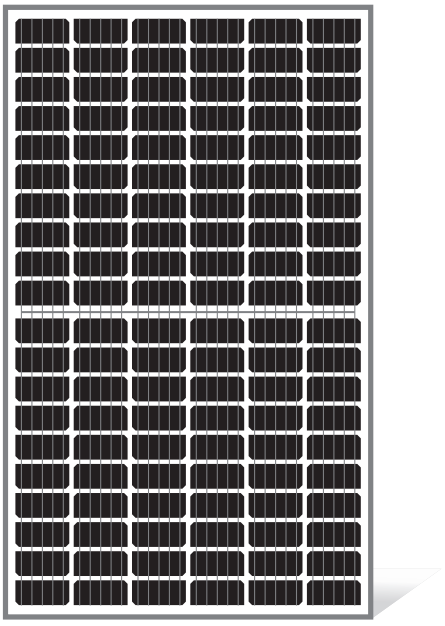
High Efficiency:
Higher module conversion efficiency (up to 20.38%) benefit from half cell structure (low resistance characteristic).

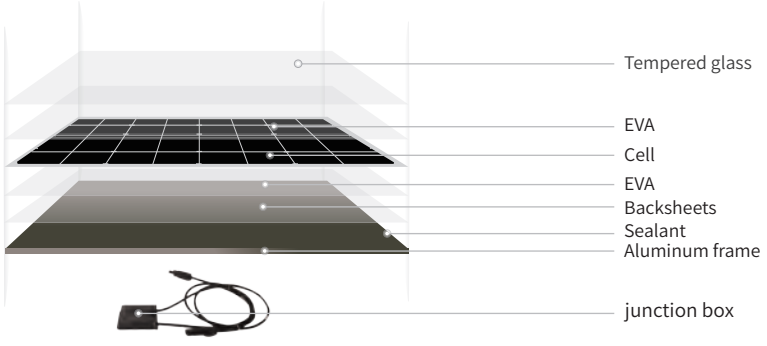
PID Resistance:
Excellent Anti-PID perform ance guarantee limited power degradation for mass production.

Low-light Performance:
Advanced glass and cell surface textured design ensure excellent perfor-mance in low-light tenvironment.

Severe Weather Resilience:
Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).

DURABILITY AGAINST EXTREME ENVIRONMENTAL CONDITIONS:
High salt mist and ammonia resistance certified by TUV NORD.



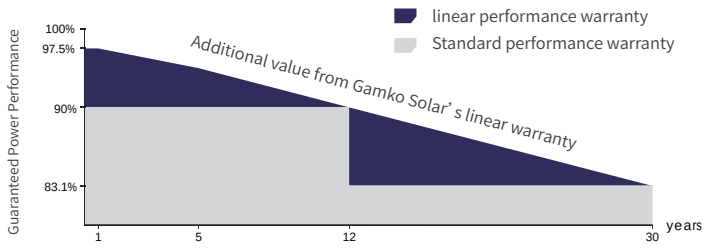


GAMKO SOLAR MODULE BOM

CELLS: TIER 1 BRANDS SOLAR CELLS
TEMPERED GLASS: ULTRA-CLEAR
EVA: TRANSPARENCY>93%
BACKSHEETS: REFLECTIVITY>80%, TPT
JUNCTION BOX: IP65/IP67 MAX 30A
SILICON GEL: UV, AGING-RESISTANT
FRAME: ANODIZED ALUMINUM 6005-T5

LINEAR PERFORMANCE WARRANTY

12 Year Product Warranty • 30 Year Linear Power Warranty



GAMKO QUALITY CONTROL

- 2 EL testing avoid cells cracking of each solar module.
- 2 Power flash testing avoid false welding and insuffi-cient power of each module.
- Packing tightly with angle protection avoid transpor-tation broken.
- Gamko Offcial Warranty cover all Gamko solar module 30 years.

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ELECTRICAL CHARACTERISTICS AT STC								
Nominal Power (P_{max})	300W	310W	315W	320W	325W	330W	335W	340W
Open Circuit Voltage (V_{OC})	39.5V	40.0V	40.3V	40.5V	40.7V	40.9V	41.1V	41.4V
Short Circuit Current (I_{SC})	9.68A	9.88A	9.98A	10.07A	10.17A	10.29A	10.39A	10.48A
Voltage at Nominal Power (V_{mp})	32.4V	32.8V	33.0V	33.2V	33.4V	33.5V	33.7V	33.9V
Current at Nominal Power (I_{mp})	9.26A	9.45A	9.55A	9.64A	9.73A	9.85A	9.94A	10.03A
Module Efficiency (%)	18.44%	19.05%	19.36%	19.67%	19.48%	19.78%	20.08%	20.38%
Operating Temperature	-40°C to +85°C							
Maximum System Voltage	1000VDC (IEC)							
Fire Resistance Rating	Type 1(in accordance with 1703)/Class C(IEC61730)							
Maximum Series Fuse Rating	20A							

*STC: Irradiance 1000W/m^2, Cell temperature 25°C, AM1.5

ELECTRICAL CHARACTERISTICS AT NOCT								
Nominal Power (P_{max})	222W	229W	233W	237W	241W	244W	248W	252W
Open Circuit Voltage (V_{OC})	36.4V	36.8V	37.0V	37.3V	37.5V	37.6V	37.8V	38.0V
Short Circuit Current (I_{SC})	7.84A	8.00A	8.08A	8.16A	8.24A	8.34A	8.41A	8.49A
Voltage at Nominal Power (V_{mp})	29.5V	29.9V	30.1V	30.3V	30.5V	30.6V	30.7V	30.9V
Current at Nominal Power (I_{mp})	7.50A	7.66A	7.73A	7.81A	7.88A	7.98A	8.05A	8.12A

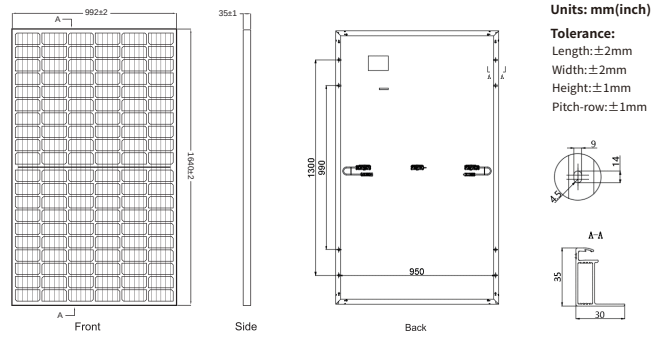
*NOCT: Irradiance 800W/m2, Ambient temperature 20°C, Wind Speed 1 m/s

MECHANICAL CHARACTERISTICS	
Cell type	Mono 156.75x156.75mm/158.75x158.75mm
Number of cells	120(6x20)
Module dimensions	1640x992x35mm/1665x1002x35mm
Weight	17kg/19kg
Front cover	3.2mm,Anti-Reflection Coating,Tempered Glass
Frame	Anodized Aluminium Alloy
Junction box	IP67 Rated
Cable	TÜV 1×4.0mm2,Length:300mm or Customized Length
Connector	PV Connector (compatible)

TEMPERATURE CHARACTERISTICS	
Nominal Operating Cell Temperature (NOCT)	45°C±2°C
Temperature Coefficients of P_{max}	-0.37%/°C
Temperature Coefficients of V_{OC}	-0.28%/°C
Temperature Coefficients of I_{SC}	0.048%/°C

PACKAGING	
Standard packaging	31pcs/pallet
Module quantity per 20' container	400pcs
Module quantity per 40' container	840pcs(GP)/924pcs(HQ)

ENGINEERING DRAWINGS

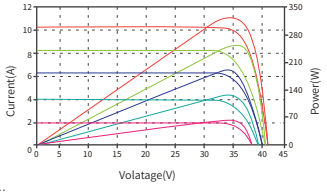


Units: mm(inch)

Tolerance:
Length:±2mm
Width:±2mm
Height:±1mm
Pitch-row:±1mm

Electrical Performance & Temperature Dependence

Current-Voltage and Power-Voltage Curves (325W)



Temperature Dependence of Isc,Voc,Pmax