

# GKA96M

## 500-560 Watt

MONO CRYSTALLINE MODULE

5BB  
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 21.85%) benefit from Passivated Emmitter Rear Contact (PERC) technology.



### 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 perform ance in low-light tenvironment.



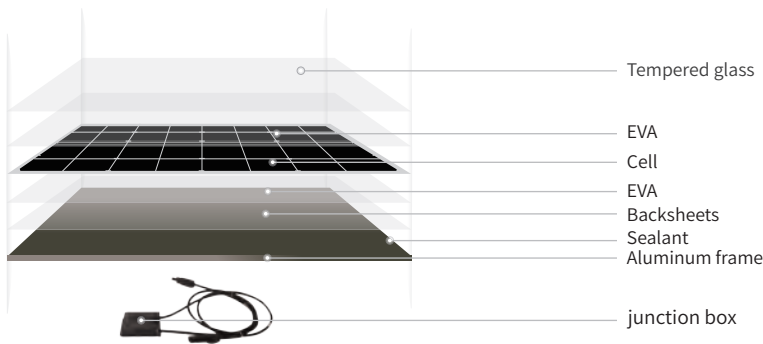
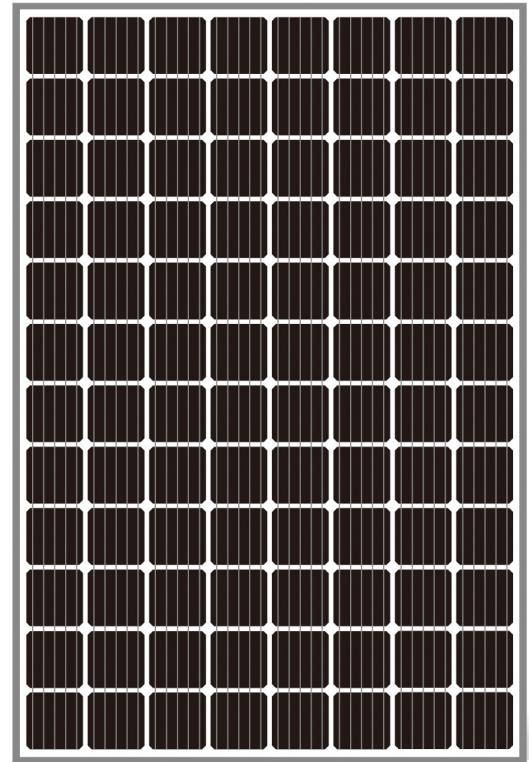
### Severe Weather Resilience:

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

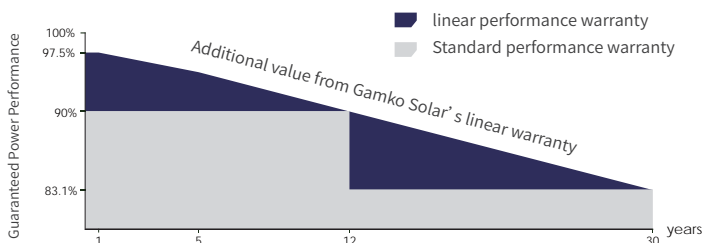
**FRAME:** ANODIZED ALUMINUM 6005-T5

## GAMKO QUALITY CONTROL

- ◆ 2 EL testing avoid cells cracking of each solar module.
- ◆ 2 Power flash testing avoid false welding and insufficient power of each module.
- ◆ Packing tightly with angle protection avoid transportation broken.
- ◆ Gamko Official Warranty cover all Gamko solar module 30 years.

## LINEAR PERFORMANCE WARRANTY

12 Year Product Warranty • 30 Year Linear Power Warranty



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### ELECTRICAL CHARACTERISTICS AT STC

Nominal Power ( $P_{max}$ )	500W	530W	535W	540W	545W	550W	555W	560W
Open Circuit Voltage ( $V_{oc}$ )	63.6V	65.0V	65.2V	65.4V	65.7V	65.9V	66.1V	66.4V
Short Circuit Current ( $I_{sc}$ )	9.70A	10.06A	10.12A	10.18A	10.24A	10.29A	10.35A	10.41A
Voltage at Nominal Power ( $V_{mp}$ )	54.5V	55.7V	55.9V	56.1V	56.3V	56.5V	56.7V	56.9V
Current at Nominal Power ( $I_{mp}$ )	9.17A	9.52A	9.57A	9.63A	9.68A	9.73A	9.79A	9.84A
Module Efficiency (%)	19.51%	20.68%	20.88%	21.07%	21.27%	21.46%	21.66%	21.85%
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<sup>2</sup>, Cell temperature 25°C, AM1.5

### ELECTRICAL CHARACTERISTICS AT NOCT

Nominal Power ( $P_{max}$ )	370W	392W	396W	400W	403W	407W	411W	414W
Open Circuit Voltage ( $V_{oc}$ )	58.5V	59.8V	60.0V	60.2V	60.4V	60.6V	60.8V	61.1V
Short Circuit Current ( $I_{sc}$ )	7.85A	8.15A	8.20A	8.25A	8.29A	8.34A	8.38A	8.43A
Voltage at Nominal Power ( $V_{mp}$ )	49.7V	50.8V	51.0V	51.2V	51.3V	51.5V	51.7V	51.9V
Current at Nominal Power ( $I_{mp}$ )	7.43A	7.71A	7.75A	7.80A	7.84A	7.88A	7.93A	7.97A

\*NOCT: Irradiance 800W/m<sup>2</sup>, Ambient temperature 20°C, Wind Speed 1 m/s

### MECHANICAL CHARACTERISTICS

Cell type	Mono 158.75x158.75mm
Number of cells	96(8x12)
Module dimensions	1956x1310x40mm
Weight	30kg
Front cover	3.2mm, Anti-Reflection Coating, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction box	IP67 Rated
Cable	TÜV 1x4.0mm <sup>2</sup> , Length:900mm or Customized Length
Connector	PV Connector (compatible)

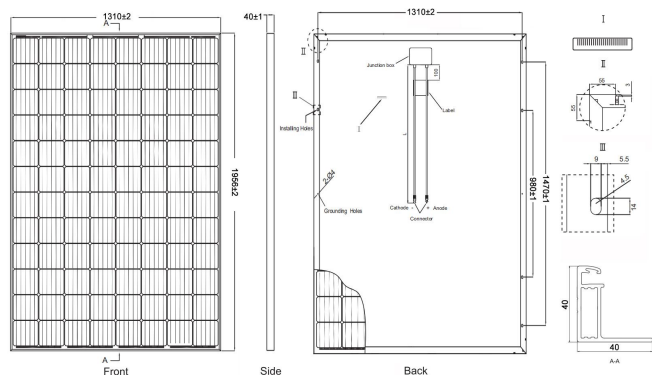
### TEMPERATURE CHARACTERISTICS

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

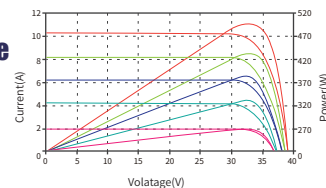
Standard packaging	31pcs/pallet
Module quantity per 20' container	190pcs
Module quantity per 40' container	380pcs(GP)/448pcs(HQ)

### ENGINEERING DRAWINGS

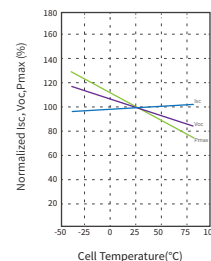


### Electrical Performance & Temperature Dependence

Current-Voltage and Power-Voltage Curves (530W)



Temperature Dependence of  $I_{sc}$ ,  $V_{oc}$ ,  $P_{max}$



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