

# GKA156M-182 580W-600W Mono

M10/182mm Cell. 156 Half-Cell Layout

MBB  
182mm

**GAMKO**  
SOLAR

## KEY FEATURES



### M Busbar Solar Cell

M Busbar Solar Cell design improves module efficiency and offers better aesthetic appearance for rooftop installation.



### High Efficiency:

Higher module conversion efficiency (up to 24.67%) benefit from Passivated Emitter Rear Contact (PERC) technology.



### PID Resistance:

Excellent Anti-PID performance guarantee limited power degradation for mass production.



### Low-light Performance:

Advanced glass and cell surface textured design ensure excellent performance in low-light environment.



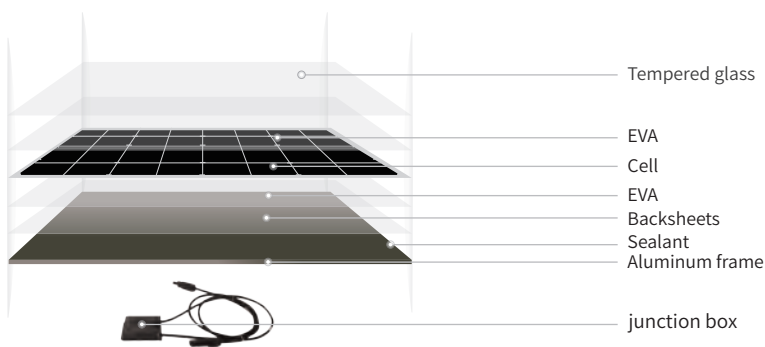
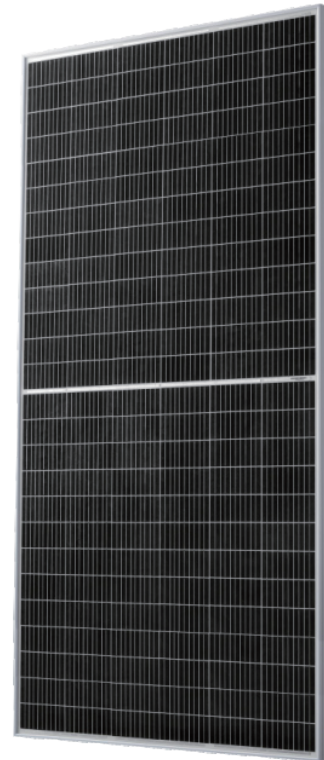
### Severe Weather Resilience:

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

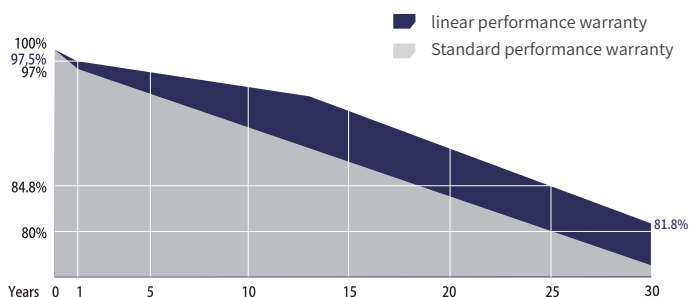
**FRAME:** ANODIZED ALUMINUM 6005-T5

## 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



# GKA156M-182

## 580W-600W Mono

M10/182mm Cell. 156 Half-Cell Layout

MBB  
182mm

**GAMKO**  
SOLAR

### ELECTRICAL CHARACTERISTICS AT STC

	580W	585W	590W	595W	600W
Maximum power(Pmax)	580W	585W	590W	595W	600W
Open Circuit Voltage(Voc)	51.15V	51.29V	51.42V	51.55V	51.68V
Short Circuit Current(Isc)	14.32A	14.39A	14.46A	14.53A	14.61A
Voltage at Maximum power(Vmpp)	43.19V	43.33V	43.48V	43.62V	43.77V
Current Maximum power (Impp)	13.43A	13.50A	13.57A	13.64A	13.71A
MODULE EFFICIENCY(%)	20.75%	20.93%	21.11%	21.29%	21.46%

STC: Irradiance 1000W/m<sup>2</sup>, cell temperature 25°C, AM1.5G

NOCT : Irradiance 800W/m<sup>2</sup>, ambient temperature 20°C, wind speed 1m/s, AM1.5G

### ELECTRICAL CHARACTERISTICS AT NOCT

	441W	445W	449W	453W	457W
Maximum power(Pmax)	441W	445W	449W	453W	457W
Open Circuit Voltage(Voc)	49.47V	49.69V	49.91V	50.13V	50.34V
Short Circuit Current(Isc)	11.31A	11.35A	11.39A	11.43A	11.48A
Voltage at Maximum power(Vmpp)	41.25V	41.47V	41.69V	41.91V	42.12V
Current Maximum power (Impp)	10.69A	10.73A	10.77A	10.81A	10.85A
MODULE EFFICIENCY(%)	20.75%	20.93%	21.11%	21.29%	21.46%

STC: Irradiance 1000W/m<sup>2</sup>, cell temperature 25°C, AM1.5G

NOCT : Irradiance 800W/m<sup>2</sup>, ambient temperature 20°C, wind speed 1m/s, AM1.5G

### MECHANICAL CHARACTERISTICS

Cell type	Mono 182x182mm
Number of cells	156(6x26)
Module dimensions	2465x1134x35mm
Weight	30.5kg
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:300mm or Customized Length
Connector	PV Connector (compatible)

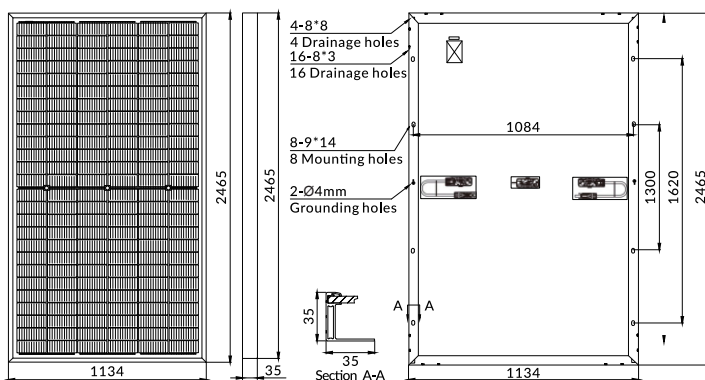
### TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)	45°C±2°C
Temperature Coefficients of P <sub>max</sub>	-0.36%/°C
Temperature Coefficients of V <sub>oc</sub>	-0.28%/°C
Temperature Coefficients of I <sub>sc</sub>	0.05%/°C

### PACKAGING

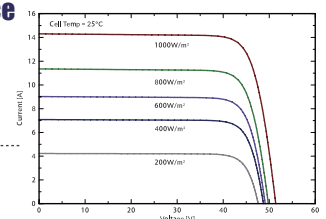
Standard packaging	31pcs/pallet
Module quantity per 20' container	124pcs
Module quantity per 40' container	18pallet/558pcs(HQ)

### ENGINEERING DRAWINGS

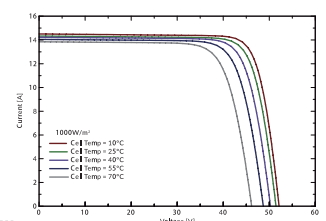


### Electrical Performance & Temperature Dependence

Current-Voltage and Power-Voltage Curves (585W)



Temperature Dependence of I<sub>sc</sub>, V<sub>oc</sub>, P<sub>max</sub>



GAMKOsolar and GAMKOsolar logo denoted with ® are registered trademarks of Nantong Gamko New Energy Co., Ltd.