

GKA60M-166

350-370 Watt

MONO CRYSTALLINE MODULE

6BB
166mm

GAMKO
SOLAR

KEY FEATURES



6 Busbar Solar Cell:

6 busbar cell design improves module efficiency and offers better aesthetic appearance for rooftop in stallation.



High Efficiency:

Higher module conversion efficiency (up to 20.28%) benefit from Passivated Emitter 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 performance in low-light tenvironment.



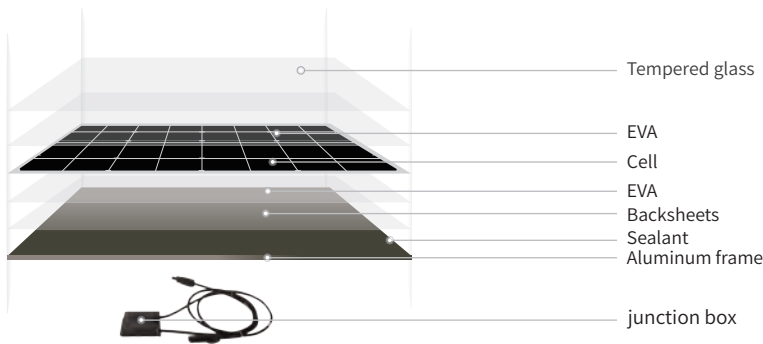
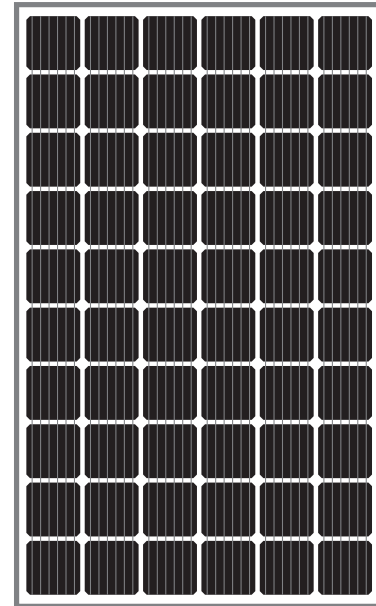
Severe Weather Resilience:

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

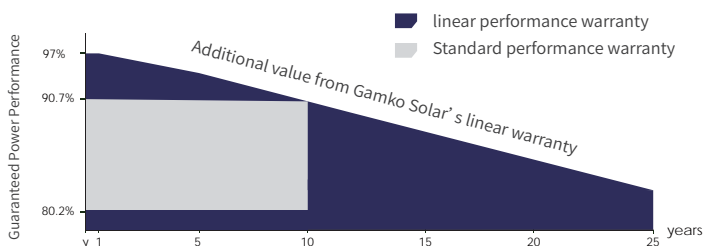
FRAME: ANODIZED ALUMINUM 6005-T5

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})	350W	355W	360W	365W	370W
Open Circuit Voltage (V_{oc})	42.0V	42.2V	42.5V	42.7V	42.9V
Short Circuit Current (I_{sc})	10.63A	10.72A	10.81A	10.90A	10.98A
Voltage at Nominal Power (V_{mp})	34.4V	34.6V	34.8V	35.0V	35.2V
Current at Nominal Power (I_{mp})	10.17A	10.26A	10.34A	10.43A	10.51A
Module Efficiency (%)	19.19%	19.46%	19.74%	20.01%	20.28%
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/m², Cell temperature 25°C, AM1.5

ELECTRICAL CHARACTERISTICS AT NOCT

Nominal Power (P_{max})	259W	263W	266W	270W	274W
Open Circuit Voltage (V_{oc})	38.6V	38.8V	39.1V	39.3V	39.5V
Short Circuit Current (I_{sc})	8.61A	8.68A	8.76A	8.83A	8.90A
Voltage at Nominal Power (V_{mp})	31.4V	31.6V	31.7V	31.9V	32.1V
Current at Nominal Power (I_{mp})	8.24A	8.31A	8.38A	8.45A	8.51A

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

MECHANICAL CHARACTERISTICS

Cell type	Mono 166x166mm
Number of cells	60(6x10)
Module dimensions	1734x1052x35mm
Weight	20kg
Front cover	3.2mm, Anti-Reflection Coating, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction box	IP67 Rated
Cable	TÜV 1×4.0mm ² , Length:900mm or Customized Length
Connector	PV Connector (compatible)

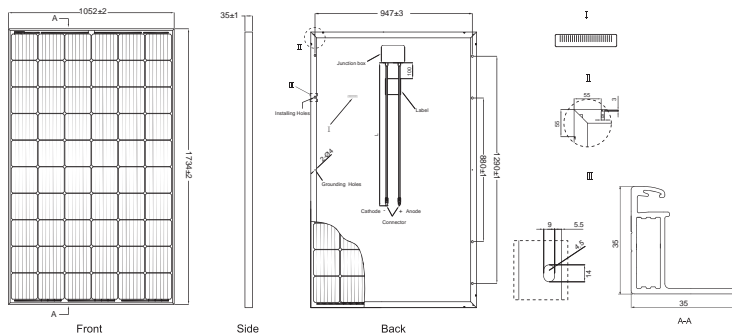
TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)	45°C ± 2°C
Temperature Coefficients of P_{max}	-0.39%/°C
Temperature Coefficients of V_{oc}	-0.30%/°C
Temperature Coefficients of I_{sc}	0.06%/°C

PACKAGING

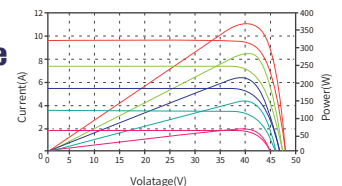
Standard packaging	31pcs/pallet
Module quantity per 20' container	388pcs
Module quantity per 40' container	775pcs(GP)/832pcs(HQ)

ENGINEERING DRAWINGS

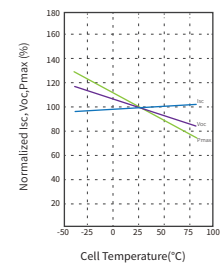


Electrical Performance & Temperature Dependence

Current-Voltage and Power-Voltage Curves (350W)



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



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