

GKA72P

325-360 Watt

POLY CRYSTALLINE MODULE

5BB
156.75mm
158.75mm

GAMKO

SOLAR

KEY FEATURES



5 Busbar Solar Cell:

5 busbar solar cell adopts new technology to improve the efficiency of modules, offers a better aesthetic appearance, making it perfect for rooftop installation.



High Power Output:

Polycrystalline 72-cell module achieves a power output up to 360Wp.



PID Resistance:

GAMKO modules pass PID test, limited power degradation by PID test is guaranteed for mass production.



Low-light Performance:

Advanced glass and surface texturing allow for excellent performance in low-light environments.



Severe Weather Resilience:

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



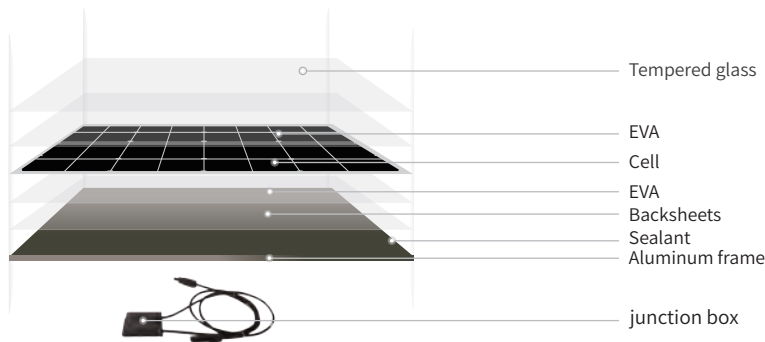
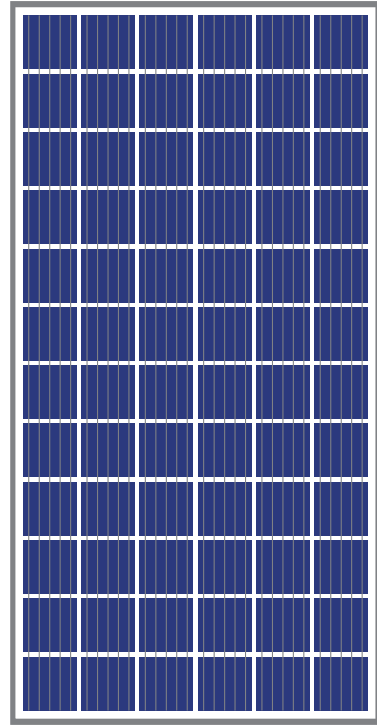
Durability against extreme environmental conditions:

High salt mist and ammonia resistance certified by TUV NORD.



Temperature Coefficient:

Improved temperature coefficient decreases power loss during high temperatures.



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

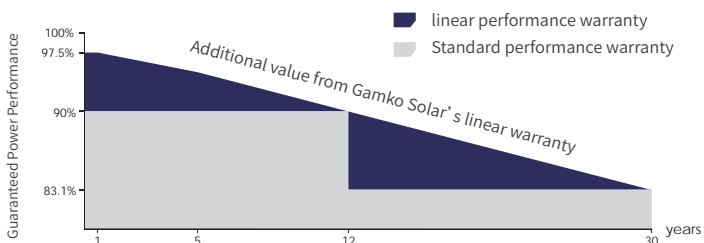
FRAME: ANODIZED ALUMINUM 6005-T5

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}) | 325W | 330W | 335W | 340W | 345W | 350W | 355W | 360W |
| Open Circuit Voltage (V _{oc}) | 45.8V | 45.9V | 46.0V | 46.1V | 46.2V | 46.2V | 46.3V | 46.4V |
| Short Circuit Current (I _{sc}) | 9.15A | 9.29A | 9.40A | 9.54A | 9.69A | 9.48A | 9.72A | 9.83A |
| Voltage at Nominal Power (V _{mp}) | 37.2V | 37.3V | 37.4V | 37.5V | 37.6V | 38.6V | 38.8V | 39.0V |
| Current at Nominal Power (I _{mp}) | 8.74A | 8.85A | 8.96A | 9.07A | 9.17A | 9.07A | 9.15A | 9.24A |
| Module Efficiency (%) | 16.75% | 17.01% | 17.26% | 17.52% | 17.78% | 17.45% | 17.70% | 17.95% |
| 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}) | 241W | 244W | 248W | 252W | 255W | 259W | 263W | 266W |
| Open Circuit Voltage (V _{oc}) | 42.1V | 42.2V | 42.3V | 42.4V | 42.5V | 42.5V | 42.6V | 42.7V |
| Short Circuit Current (I _{sc}) | 7.41A | 7.52A | 7.61A | 7.73A | 7.85A | 7.68A | 7.87A | 7.96A |
| Voltage at Nominal Power (V _{mp}) | 33.9V | 34.0V | 34.1V | 34.2V | 34.3V | 35.2V | 35.4V | 35.6V |
| Current at Nominal Power (I _{mp}) | 7.08A | 7.17A | 7.26A | 7.35A | 7.43A | 7.35A | 7.41A | 7.48A |

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

MECHANICAL CHARACTERISTICS

| | |
|-------------------|--|
| Cell type | Poly 156.75x156.75mm/158.75x158.75mm |
| Number of cells | 72(6x12) |
| Module dimensions | 1956x992x35mm/2002x1002x35mm |
| Weight | 21kg/23kg |
| Front cover | 3.2mm, Anti-Reflection Coating, Tempered Glass |
| Frame | Anodized Aluminium Alloy |
| Junction box | IP67 Rated |
| Cable | TÜV 1x4.0mm ² , Length:900mm or Customized Length |
| Connector | PV Connector (compatible) |

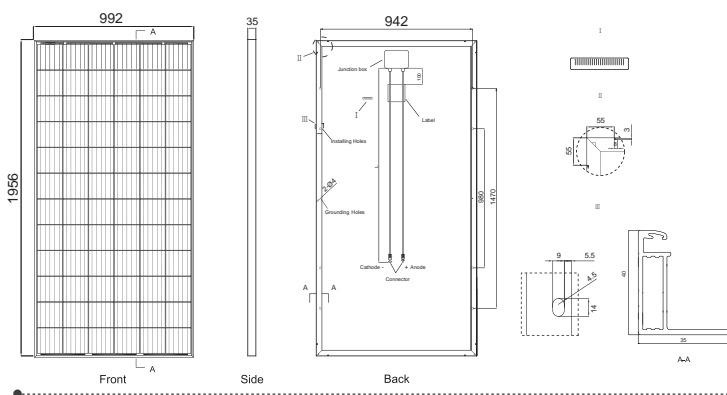
TEMPERATURE CHARACTERISTICS

| | |
|--|-----------|
| Nominal Operating Cell Temperature (NOCT) | 45°C±2°C |
| Temperature Coefficients of P _{max} | -0.38%/°C |
| Temperature Coefficients of V _{oc} | -0.31%/°C |
| Temperature Coefficients of I _{sc} | 0.06%/°C |

PACKAGING

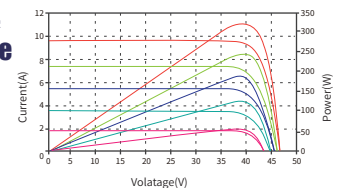
| | |
|-----------------------------------|-----------------------|
| Standard packaging | 31pcs/pallet |
| Module quantity per 20' container | 324pcs |
| Module quantity per 40' container | 688pcs(GP)/738pcs(HQ) |

ENGINEERING DRAWINGS

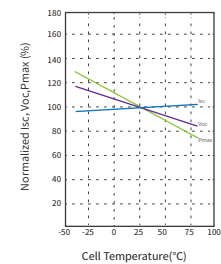


Electrical Performance & Temperature Dependence

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



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



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