

# GKA36M50-180WATT FLEXIBLE

MONO CRYSTALLINE MODULE

**GAMKO**  
SOLAR

## KEY FEATURES

### Solar Cell:

solar cell adopts new technology to improve the efficiency of modules, offers a better aesthetic appearance.

### PID Resistance:

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

### Low-light Performance:

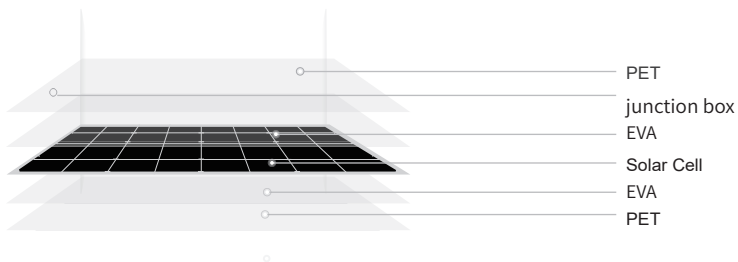
Advanced PET and surface texturing allow for excellent performance in low-light environments.

### Flexibility

Their flexibility ensure that the module conform to the corresponding substructure

### Easily mounting with a number of assembly options

The modules can be glued, screwed, riveted, or mounted onto the sub structure using existing eyelets



## APPLICATIONS

**Building integrated and building applied PV (rooftop, facade)**

**Outdoor & mobile applications**

## LINEAR PERFORMANCE WARRANTY

10-year product warranty

25-year linear performance warranty

## GAMKO QUALITY CONTROL

Electrical Insulation test

Outdoor exposure test

Hot-spot endurance test

**Bypass diode thermal test**

Robustness of terminations test

Wet leakage current test



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### ELECTRICAL CHARACTERISTICS AT STC

|   |   |       |       |       |
|---|---|-------|-------|-------|
| Nominal Power (P <sub>max</sub> )           | 50W   | 100W  | 170W  | 180W  |
| Open Circuit Voltage (V <sub>oc</sub> )     | 22.0V   | 22.0V | 22.8V | 22.8V |
| Short Circuit Current (I <sub>sc</sub> )    | 2.90A   | 5.81A | 9.18A | 10.2A |
| Voltage at Nominal Power (V <sub>mp</sub> ) | 18.0V   | 18.0V | 18.8V | 18.2V |
| Current at Nominal Power (I <sub>mp</sub> ) | 2.78A   | 5.56A | 9.04A | 9.88A |
| Cell Efficiency (%)                         | 19%   | 19%   | 19%   | 19%   |
| 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                  | 10A   |       |       |       |

\*STC: Irradiance 1000W/m<sup>2</sup>, Cell temperature 25°C, AM1.5, Power Tolerance 0~+3%

### SIZE AND PACKING

|               | Cells Size | Number Of Cells | Dimension     | Weight | Packing               |
|---------------|------------|-----------------|---------------|--------|-----------------------|
| 50W flexible  | 156.75mm   | 36(9x4)         | 540*670*20mm  | 0.9kg  | one pcs in one carton |
| 100W flexible | 156.75mm   | 36(9x4)         | 1000*670*20mm | 1.8kg  | one pcs in one carton |
| 170W flexible | 156.75mm   | 36(9x4)         | 1480*670*20mm | 2.7kg  | one pcs in one carton |
| 180W flexible | 156.75mm   | 36(9x4)         | 1480*670*20mm | 2.7kg  | one pcs in one carton |

### MECHANICAL CHARACTERISTICS

|                 |   |
|-----------------|---|
| Front cover     | PET/EFTE                                  |
| Back sheet      | EVA High resistant PET                    |
| Junction Box    | IP67                                      |
| Cable&connector | 2.5mm <sup>2</sup> ,600mm & mc4 connector |

### TEMPERATURE CHARACTERISTICS

|  |           |
|--|-----------|
| Nominal Operating Cell Temperature (NOCT)    | 45°C±2°C  |
| Temperature Coefficients of P <sub>max</sub> | -0.40%/°C |
| Temperature Coefficients of V <sub>oc</sub>  | -0.30%/°C |
| Temperature Coefficients of I <sub>sc</sub>  | 0.06%/°C  |



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