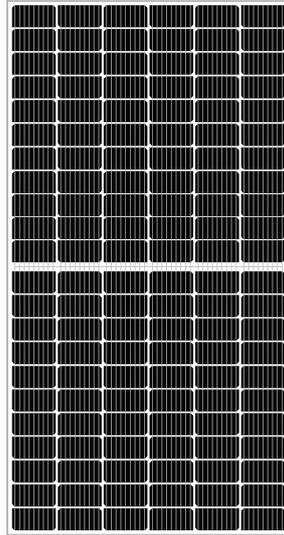
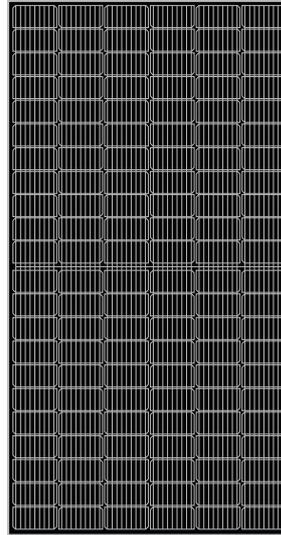


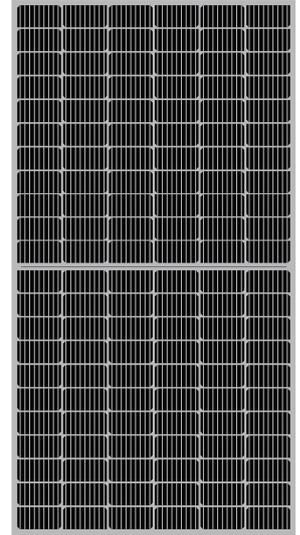
**GKA182N144**  
**600W-620W**



**GKA182N144S**  
**STANDARD**



**GKA182N144BK**  
**BLACK VERSION**



**GKA182N144BF**  
**BIFACIAL**

**KEY FEATURES**

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

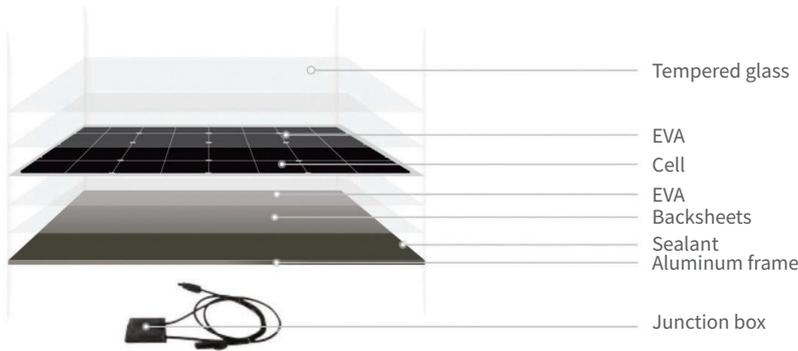
**High Efficiency:**  
Higher module conversion efficiency (up to 23.99%) benefit from N-TOPCon cell technology.

**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.

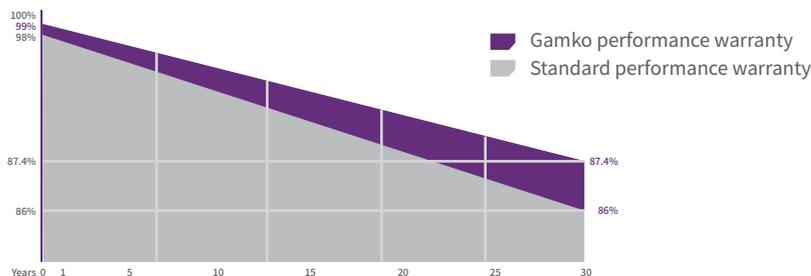


**★ GAMKO SOLAR MODULE BOM**

- CELLS:** TIER 1 BRANDS SOLAR CELLS
- TEMPERED GLASS:** ULTRA-CLEAR
- EVA:** TRANSPARENCY > 93%
- BACKSHEETS:** REFLECTIVITY > 80%, TPT
- JUNCTION BOX:** IP68 MAX 30A
- SILICON GEL:** UV, AGING-RESISTANT
- FRAME:** ANODIZED ALUMINUM 6005-T5

**LINEAR PERFORMANCE WARRANTY**

12 Year Product Warranty · 30 Year Linear Power Warranty



**★ 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.

**GKA182N144**  
**600W-620W**



**SPECIFICATION**

	STC	NOCT								
Maximum Power(P <sub>max</sub> )	600W	453W	605W	457W	610W	461W	615W	465W	620W	469W
Open Circuit Voltage (V <sub>oc</sub> )	49.94V	47.69V	50.14V	47.87V	50.34V	48.05V	50.54V	48.23V	50.74V	48.46V
Short Circuit Current (I <sub>sc</sub> )	15.35A	12.40A	15.41A	12.45A	15.47A	12.50A	15.53A	12.55A	15.59A	12.60A
Voltage at Maximum Power (V <sub>mpp</sub> )	41.26V	38.72V	41.42V	38.87V	41.58V	39.02V	41.74V	39.17V	41.89V	39.29V
Current at Maximum Power (I <sub>mp</sub> )	14.54A	11.73A	14.60A	11.78A	14.66A	11.83A	14.72A	11.88A	14.80A	11.94A
Module Efficiency STC (%)	23.23%		23.42%		23.61%		23.81%		23.99%	

STC: Irradiance 1000W/m<sup>2</sup>, Cell temperature 25°C, AM1.5; Tolerance of P<sub>max</sub>: ±3%; Measurement Tolerance: ±3%, P<sub>max</sub> According Gamko's official testing.  
NOCT: Irradiance 800W/m<sup>2</sup>, ambient temperature 20°C, wind speed 1m/s; Tolerance of P<sub>max</sub>: ±3%; Measurement Tolerance: ±3%, P<sub>max</sub> According Gamko's official testing.

**BIFACIAL OUTPUT-REAR SIDE POWER GAIN**

5%	Maximum Power(P <sub>max</sub> )	630W	635W	641W	646W	651W
	Module Efficiency STC (%)	24.38%	24.57%	24.80%	25.00%	25.19%
15%	Maximum power (P <sub>max</sub> )	690W	696W	702W	707W	713W
	Module Efficiency STC (%)	26.70%	26.93%	27.16%	27.36%	27.59%
25%	Maximum Power(P <sub>max</sub> )	750W	756W	763W	769W	775W
	Module Efficiency STC (%)	29.02%	29.25%	29.52%	29.76%	29.99%

**MECHANICAL CHARACTERISTICS**

Cell type	Monocrystalline TOPCON
Number of cells	144(6x24)
Module dimensions	2279*1134*30MM
Weight	28/31.5kg
Front cover	3.2mm coated tempered glass
Frame	Anodized aluminum alloy
Junction box	IP68 rated (3 by pass diodes)
Cable	4mm <sup>2</sup> (0.006inches <sup>2</sup> ),Portrait: 300mm(11.81inches);
Connector	PV compatible

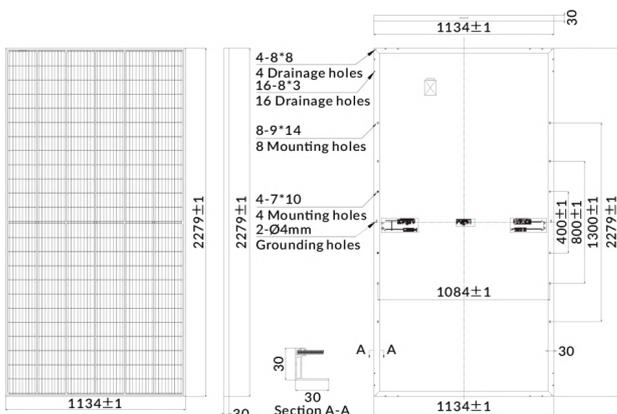
**TEMPERATURE CHARACTERISTICS**

Nominal Operating Cell Temperature (NOCT)	45°C±2°C
Temperature Coefficients of P <sub>max</sub>	-0.30%/°C
Temperature Coefficients of V <sub>oc</sub>	-0.25%/°C
Temperature Coefficients of I <sub>sc</sub>	-0.046%/°C

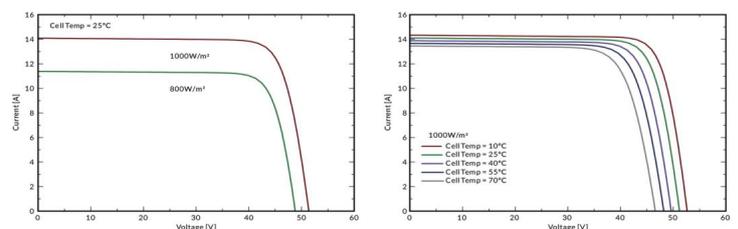
**PACKAGING**

Standard packaging	36pcs/pallet
Module quantity per 20' container	325pcs
Module quantity per 40' container	720pcs(HQ)

**ENGINEERING DRAWINGS**



**Electrical Performance & Temperature Dependence**



Specifications included in this datasheet are subject to change without notice.