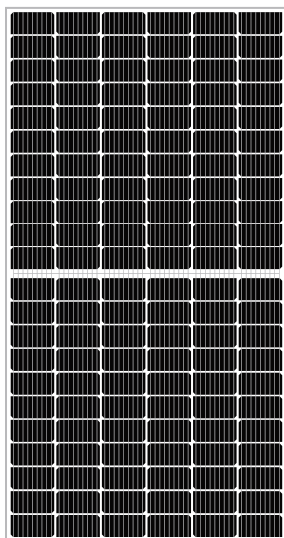
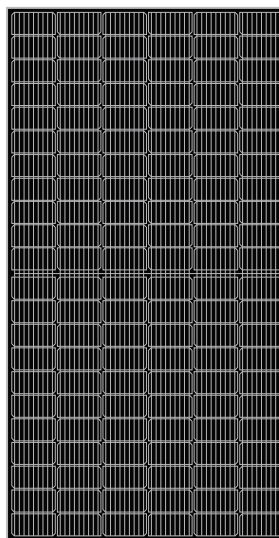


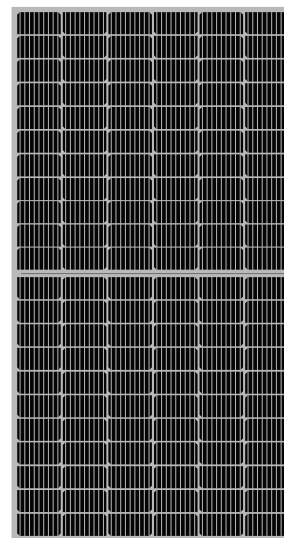
GKA182N144
600W-620W



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.



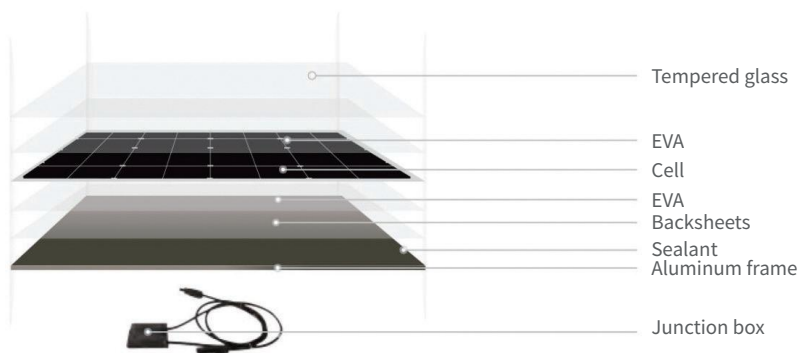
Severe Weather Resilience:

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

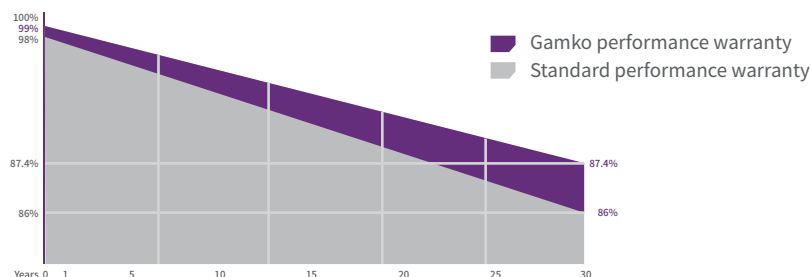
JUNCTION BOX: IP68 MAX 30A

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	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(P_{max})	600W	453W	605W	457W	610W	461W	615W	465W	620W	469W
Open Circuit Voltage (V_{oc})	51.53V	47.69V	51.75V	47.87V	51.97V	48.05V	52.19V	48.23V	52.40V	48.46V
Short Circuit Current (I_{sc})	14.43A	12.40A	14.48A	12.45A	14.54A	12.50A	14.60A	12.55A	14.66A	12.60A
Voltage at Maximum Power (V_{mpp})	43.67V	38.72V	43.86V	38.87V	44.04V	39.02V	44.23V	39.17V	44.41V	39.29V
Current at Maximum Power (I_{mpp})	13.74A	11.73A	13.79A	11.78A	13.85A	11.83A	13.90A	11.88A	13.96A	11.94A
Module Efficiency STC (%)	23.23%		23.42%		23.61%		23.81%		23.99%	

 STC: Irradiance 1000W/m², Cell temperature 25°C, AM1.5; Tolerance of P_{max} : $\pm 3\%$; Measurement Tolerance: $\pm 3\%$, P_{max} According Gamko's official testing.

 NOCT: Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s; Tolerance of P_{max} : $\pm 3\%$; Measurement Tolerance: $\pm 3\%$, P_{max} According Gamko's official testing.

BIFACIAL OUTPUT-REAR SIDE POWER GAIN

5%	Maximum Power(P_{max})	630W	635W	641W	646W	651W
	Module Efficiency STC (%)	24.38%	24.57%	24.80%	25.00%	25.19%
15%	Maximum power (P_{max})	690W	696W	702W	707W	713W
	Module Efficiency STC (%)	26.70%	26.93%	27.16%	27.36%	27.59%
25%	Maximum Power(P_{max})	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 ² (0.006inches ²), Portrait: 300mm(11.81inches);
Connector	PV compatible

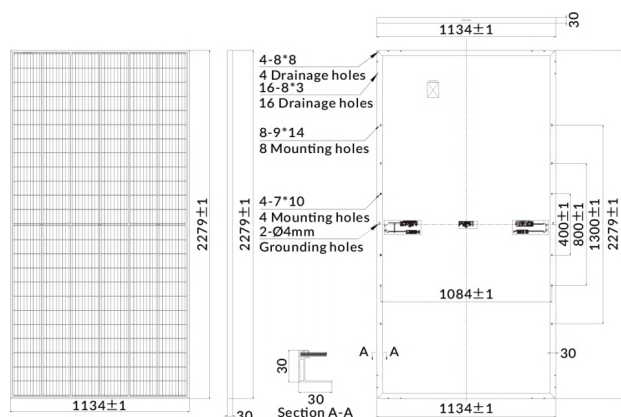
TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)	45°C $\pm 2^{\circ}\text{C}$
Temperature Coefficients of P_{max}	-0.30%/°C
Temperature Coefficients of V_{oc}	-0.25%/°C
Temperature Coefficients of I_{sc}	-0.046%/°C

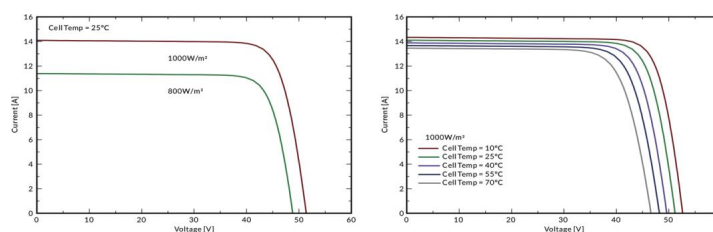
PACKAGING

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.