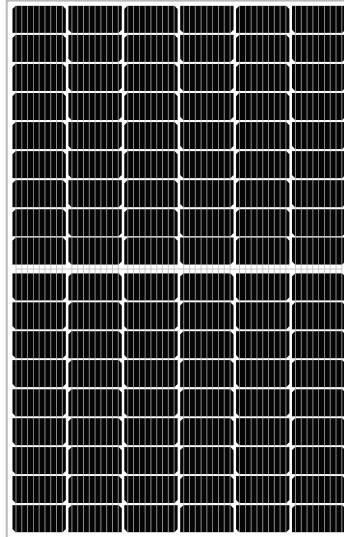
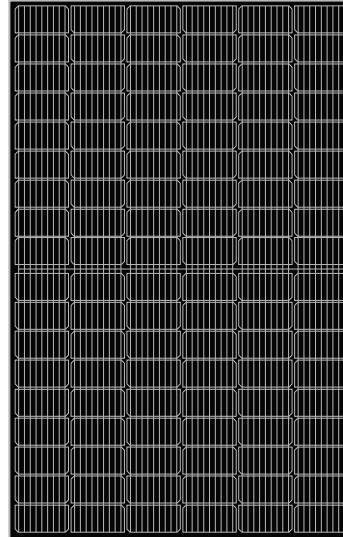


182*210MM

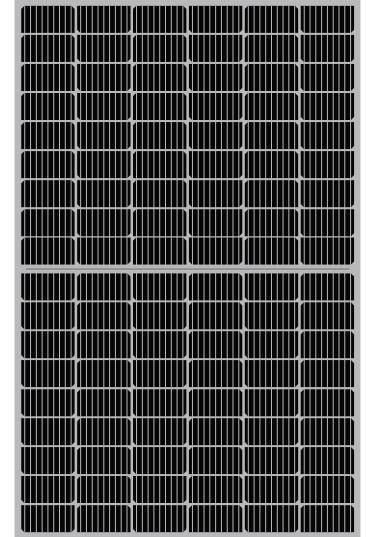
GKA108N-PRO
510W-530W



GKA108N
STANDARD



GKA108N-BK
BLACK VERSION



GKA108N-BF
BIFACIAL

KEY FEATURES

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

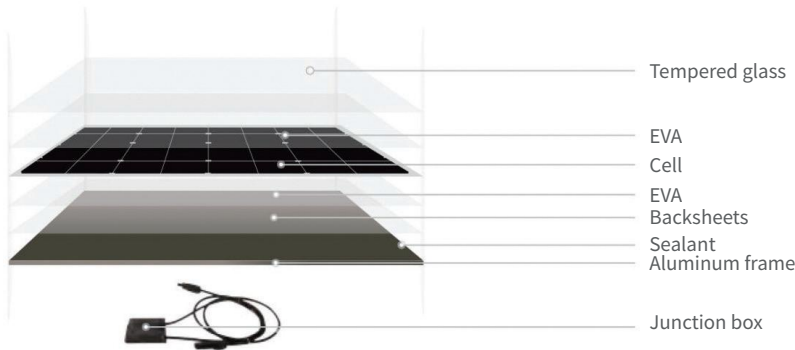
High Efficiency:
Higher module conversion efficiency benefit from N-TOPCon cell technology.

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 (5400Pascal).

DURABILITY AGAINST EXTREME ENVIRONMENTAL CONDITIONS:
High salt mist and ammonia resistance certified.

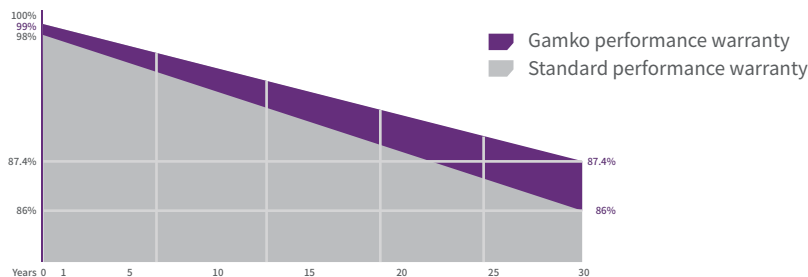


★ GAMKO SOLAR MODULE BOM

- 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.

182*210MM

GKA108N-PRO
510W-530W



SPECIFICATION

	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(P _{max})	510W	383W	515W	387W	520W	391W	525W	395W	530W	410W
Open Circuit Voltage (V _{oc})	41.10V	38.94V	41.30V	39.14V	41.50V	39.34V	41.70V	39.54V	41.90V	39.74V
Short Circuit Current (I _{sc})	15.67A	12.74A	15.69A	12.76A	15.71A	12.78A	15.73A	12.80A	15.75A	12.82A
Voltage at Maximum Power (V _{mpp})	34.50V	31.91V	34.70V	32.11V	34.90V	32.31V	35.10V	32.51V	35.30V	32.71V
Current at Maximum Power (I _{mpp})	14.79A	12.01A	14.85A	12.06A	14.91A	12.11A	14.97A	12.16A	15.03A	12.22A
Module Efficiency STC (%)	22.95%		23.17%		23.40%		23.62%		23.85%	

STC: Irradiance 1000W/m², Cell temperature 25°C, AM1.5; Tolerance of P_{max}: ±3%; Measurement Tolerance: ±3%, P_{max} According Gamko's official testing.
NOCT: Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s; Tolerance of P_{max}: ±3%; Measurement Tolerance: ±3%, P_{max} According Gamko's official testing.

BIFACIAL OUTPUT-REAR SIDE POWER GAIN

5%	Maximum Power(P _{max})	536W	541W	546W	551W	557W
	Module Efficiency STC (%)	24.10%	24.33%	24.57%	24.80%	25.04%
15%	Maximum power (P _{max})	587W	592W	598W	604W	610W
	Module Efficiency STC (%)	26.39%	26.65%	26.91%	27.16%	27.43%
25%	Maximum Power(P _{max})	638W	644W	650W	656W	663W
	Module Efficiency STC (%)	28.69%	28.96%	29.25%	29.53%	29.81%

MECHANICAL CHARACTERISTICS

Cell type	Monocrystalline TOPCON 182*105mm
Number of cells	108(6x18)
Module dimensions	1960*1134*30MM
Weight	25kg
Front cover	3.2mm (0.13inches)tempered glass with AR coating
Frame	Anodized aluminum alloy
Junction box	IP68 rated (3 by pass diodes)
Cable	4mm2(0.006inches2),Portrait: 300mm(11.81inches);
Connector	PV compatible

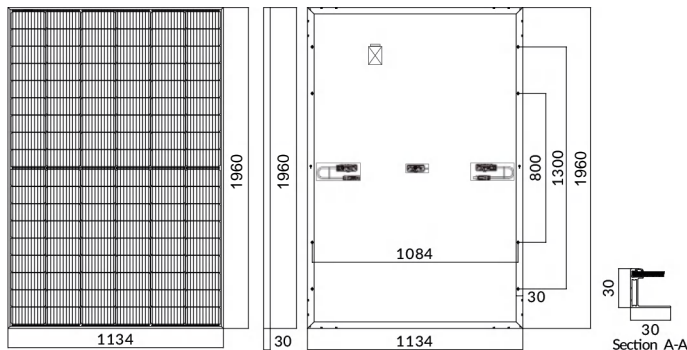
TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)	45°C±2°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

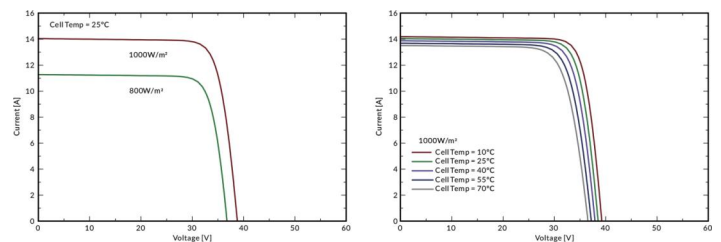
PACKAGING

Standard packaging	36pcs/pallet
Module quantity per 20' container	384pcs
Module quantity per 40' container	864pcs(HQ)

ENGINEERING DRAWINGS



Electrical Performance & Temperature Dependence



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