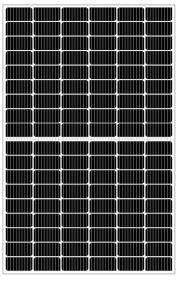
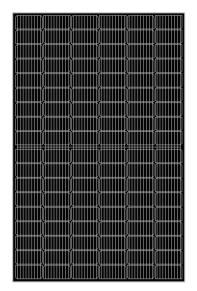


GKA182N108 430W-450W

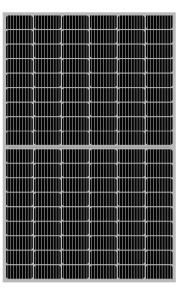




GKA182N108S STANDARD



GKA182N108BK BLACK VERSION



GKA182N108BF 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 23.04%) 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.



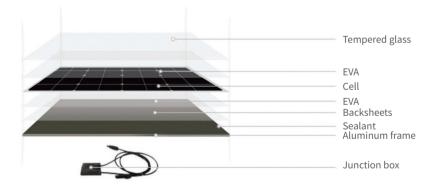
Severe Weather Resilience:

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



DURABILITY AGAINST EXTREME ENVIRONMENTAL CONDITIONS:

High salt mist and ammonia resistance certified.



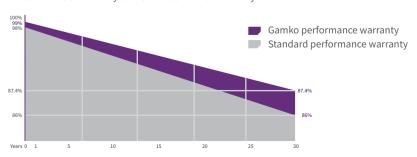
★ GAMKO SOLAR MODULE BOM

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 module30 years.

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GKA182N108 430W-450W





SPECIFICATION										
	STC	NOCT								
Maximum Power(P _{max})	430W	323W	435W	327W	440W	331W	445W	335W	450W	339W
Open Circuit Voltage (Voc)	39.04V	37.15V	39.27V	37.35V	39.50V	37.55V	39.73V	37.75V	39.96V	37.95V
Short Circuit Current (Isc)	14.10A	11.36A	14.17A	11.42A	14.24A	11.48A	14.31A	11.54A	14.38A	11.60A
Voltage at Maximum Power (V _{mpp})	32.65V	30.07V	32.85V	30.28V	33.06V	30.48V	33.26V	30.68V	33.46V	30.87V
Current at Maximum Power (Impp)	13.17A	10.74A	13.24A	10.80A	13.31A	10.86A	13.38A	10.92A	13.45A	10.98A
Module Efficiency STC (%)	22.02%		22.28%		22.53%		22.79%		23.04%	

STC: Irradiance 1000W/m2, Cell temperature 25°C, AM1.5; Tolerance of Pmax: ±3%; Measurement Tolerance: ±3%, Pmax According Gamko's official testing.

NOCT: Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s; Tolerance of Pmax: ±3%; Measurement Tolerance: ±3%, Pmax According Gamko's official testing.

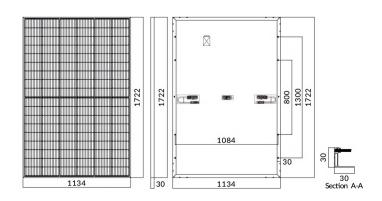
BIFACIAL OUTPUT-REARSIDE POWER GAIN						
5%	Maximum Power(P _{max})	452W	457W	462W	467W	472W
J 70	Module Efficiency STC (%)	23.12%	23.39%	23.66%	23.92%	24.17%
15%	Maximum power (P _{max})	495W	500W	506W	512W	518W
1370	Module Efficiency STC (%)	25.32%	25.62%	25.91%	26.22%	26.53%
25%	Maximum Power(P _{max})	538W	544W	550W	556W	563W
	Module Efficiency STC (%)	27.53%	27.85%	28.17%	28.47%	28.83%

MECHANICAL CHARACTERISTICS				
Cell type	Monocrystalline TOPCON 182*91mm			
Number of cells	108(6x18)			
Module dimensions	1722*1134*30MM			
Weight	19kg			
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			

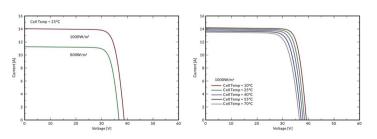
TEMPERATURE CHARACTERISTICS				
Nominal Operating Cell Temperature (NOCT)	45°C±2°C			
Temperature Coefficients of P _{max}	-0.30%/°C			
Temperature Coefficients of V _{oc}	-0.25%/°C			
Temperature Coefficients of Isc	-0.046%/°C			

PACKAGING	
Standard packaging	36pcs/pallet
Module quantity per 20' container	430pcs
Module quantity per 40' container	936pcs(HQ)

ENGINEERING DRAWINGS



Electrical Performance & Temperature Dependence



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

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