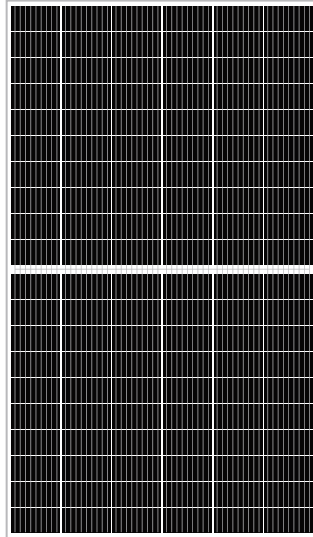
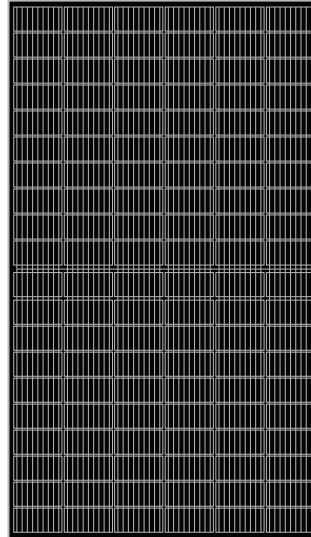


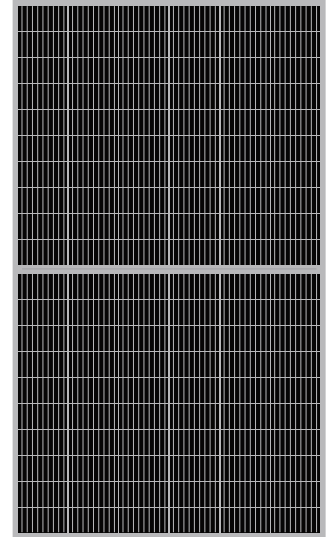
GKA210M120
590W-610W



GKA210M120S
STANDARD



GKA210M120BK
BLACK VERSION



GKA210M120BF
BIFACIAL

KEY FEATURES

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

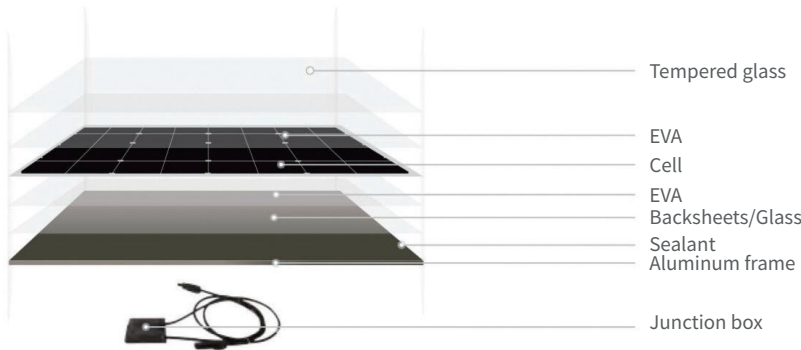
High Efficiency:
Higher module conversion efficiency (up to 21.55%) benefit from Passivated Emmitter Rear Contact (PERC) technology.

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.

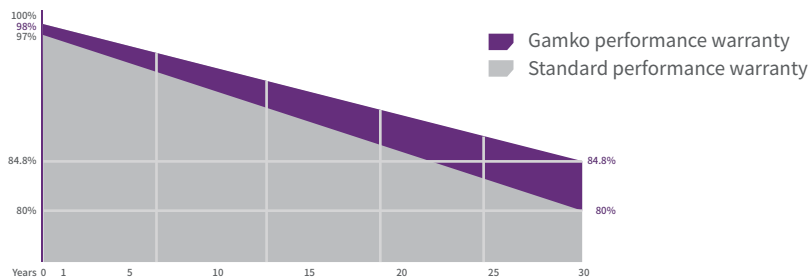


★ **GAMKO SOLAR MODULE BOM**

- 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.

GKA210M120
590W-610W



SPECIFICATION

	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(P _{max})	590W	448W	595W	452W	600W	456W	605W	460W	610W	464W
Open Circuit Voltage (V _{oc})	41.34V	38.72V	41.52V	38.92V	41.69V	39.11V	41.87V	39.31V	42.03V	39.50V
Short Circuit Current (I _{sc})	18.42A	14.94A	18.47A	14.98A	18.53A	15.02A	18.58A	15.06A	18.64A	15.10A
Voltage at Maximum Power (V _{mpp})	34.37V	31.80V	34.55V	31.94V	34.72V	32.09V	34.91V	32.24V	35.08V	32.38V
Current at Maximum Power (I _{mp})	17.17A	14.09A	17.22A	14.15A	17.28A	14.21A	17.33A	14.27A	17.39A	14.33A
Module Efficiency STC (%)	20.85%		21.02%		21.20%		21.38%		21.55%	

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})	620W	625W	630W	635W	641W
	Module Efficiency STC (%)	21.89%	22.08%	22.26%	22.45%	22.63%
15%	Maximum power (P _{max})	679W	684W	690W	696W	702W
	Module Efficiency STC (%)	23.97%	24.18%	24.38%	24.58%	24.79%
25%	Maximum Power(P _{max})	738W	744W	750W	756W	763W
	Module Efficiency STC (%)	26.06%	26.28%	26.50%	26.72%	26.94%

MECHANICAL CHARACTERISTICS

Cell type	Monocrystalline PERC 210*105mm
Number of cells	120(6x20)
Module dimensions	2172*1303*30MM
Weight	28kg
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

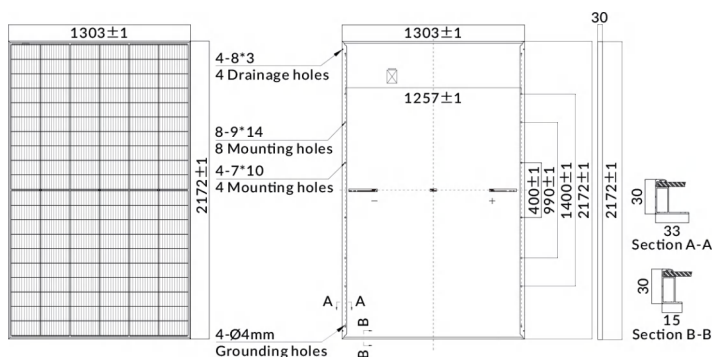
TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)	43°C±2°C
Temperature Coefficients of P _{max}	-0.34%/°C
Temperature Coefficients of V _{oc}	-0.25%/°C
Temperature Coefficients of I _{sc}	-0.04%/°C

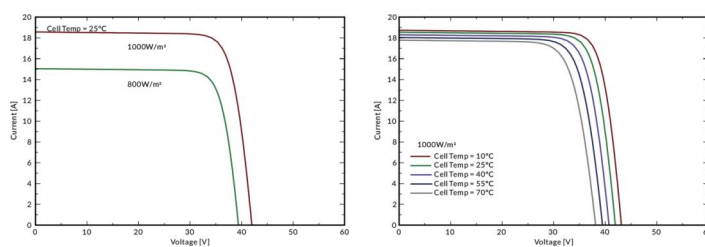
PACKAGING

Standard packaging	36pcs/pallet
Module quantity per 20' container	288pcs(no pallet)
Module quantity per 40' container	648pcs(HQ)

ENGINEERING DRAWINGS



Electrical Performance & Temperature Dependence



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