



GAMKO
NEW ENERGY

PV SOLAR MODULE

PERC TOPCON HJT BC TECHNOLOGY
SYSTEM SOLUTIONS



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www.gamkosolar.com www.gamkopower.com



ABOUT GAMKO

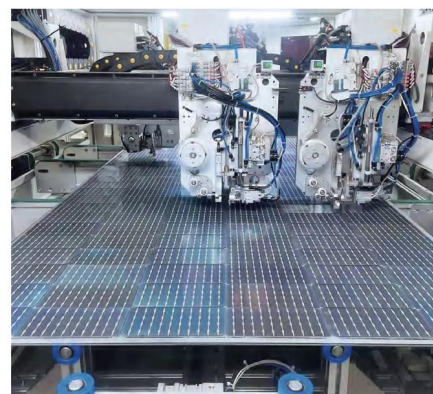
NANTONG GAMKO NEW ENERGY CO.,LTD. IS A HIGH-TECH ENTERPRISE INTEGRATING R&D,MANUFACTURING AND SALES,DEDICATED TO THE SOLAR PHOTOVOLTAIC INDUSTRY.OUR MAIN PRODUCTS ARE MONO SOLAR PANEL,POLY SOLAR PANEL,TRANSPARENT SOLAR PANEL,MINI SOLAR PANEL,FLEXIBLE SOLAR PANEL,SOLAR SYSTEM AND SOLAR LIGHT SYSTEMS.

GAMKO ENERGY ANNUAL CAPACITY 2GW,HAVE ADVANCED PRODUCTION TECHNOLOGY AND PRECISE QUALITY INSPECTION SYSTEM.SINCE ITS ESTABLISHMENT IN 2012,GAMKO HAS BEEN COMMITTED TO IMPROVING MODULE POWER AND SINGLE WATT POWER GENERATION THROUGH INNOVATION.OUR MODULES HAVE BECOME ONE OF THE MOST COST-EFFECTIVE PRODUCTS IN THE INDUSTRY.

GAMKO ENERGY HAS PASSED ISO9001 QUALITY CONTROL SYSTEM,AND ALL OUR PRODUCTS HAVE CE,IEC,FCC,ROHS,INMETRO,JPEA,GEMEINSAM TRANSPARENZ SCHAFFEN CERTIFICATIONS.QUALITY ALWAYS THE LIFE OF GAMKO ENERGY.ALL RAW MATERIAL SUPPLIERS OF GAMKO HAVE UNDERGONE STRICT DEVELOPMENT AND SCREENING,AND BASED ON INTERNATIONALLY-USED COMPONENT PERFORMANCE TEST STANDARDS,THEY HAVE DOUBLED THE TEST TIME AND TIGHTENED THE TEST STANDARDS. GAMKO'S PHOTOVOLTAIC PRODUCTS ALREADY USED IN POLAND,VIETNAM,AUSTRALIA,PHILIPPINES,JAPAN,- MEXICO ETC 128 COUNTRIES.


MORE INFORMATION PLEASE VISIT OUR WEBSITE:WWW.GAMKOSOLAR.COM OR WWW.GAMKOPOWER.COM

WORKSHOP ENVIRONMENT



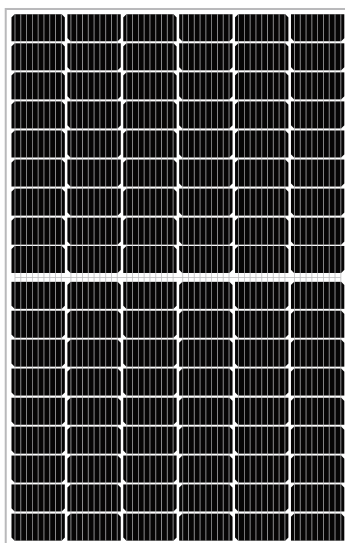

2 GW+
Annual Capacity


30 Years+
Quality Assurance

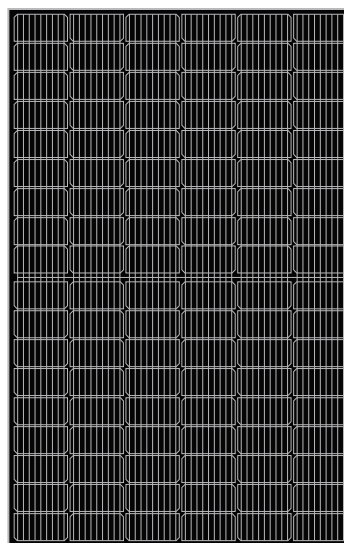

26%
Efficiency PV


128 Counties+
Projects Served

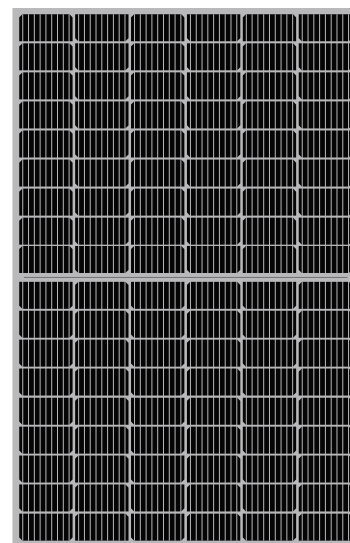
GKA182N108 430W-450W



**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.



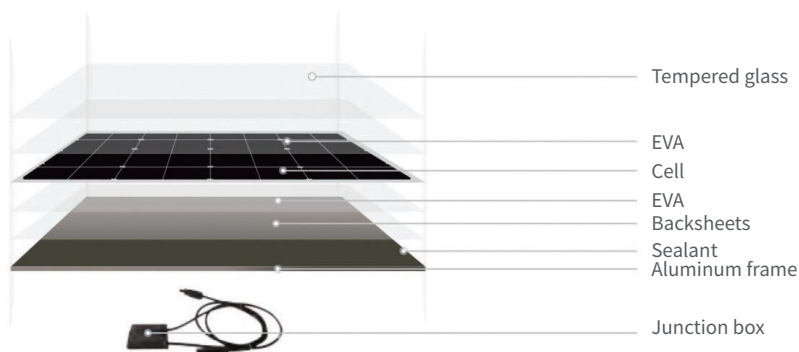
Severe Weather Resilience:

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

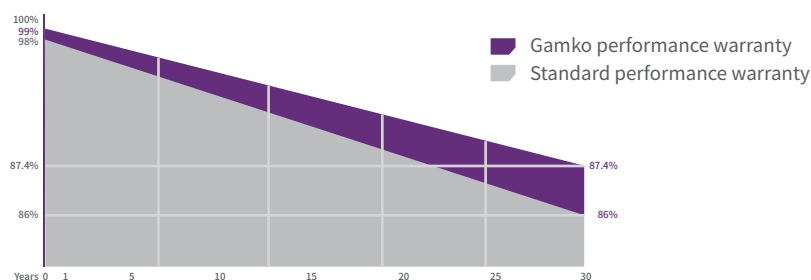
JUNCTION BOX: IP68 MAX 30A

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 module 30 years.

GKA182N108

430W-450W



SPECIFICATION

	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(P _{max})	430W	323W	435W	327W	440W	331W	445W	335W	450W	339W
Open Circuit Voltage (V _{oc})	39.04V	37.15V	39.27V	37.35V	39.50V	37.55V	39.73V	37.75V	39.96V	37.95V
Short Circuit Current (I _{sc})	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 (I _{mpp})	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 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})	452W	457W	462W	467W	472W
	Module Efficiency STC (%)	23.12%	23.39%	23.66%	23.92%	24.17%
15%	Maximum power (P _{max})	495W	500W	506W	512W	518W
	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	20.8/24kg
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

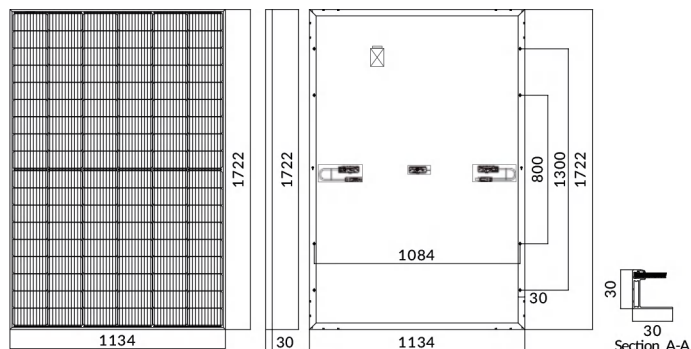
TEMPERATURE CHARACTERISTICS

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

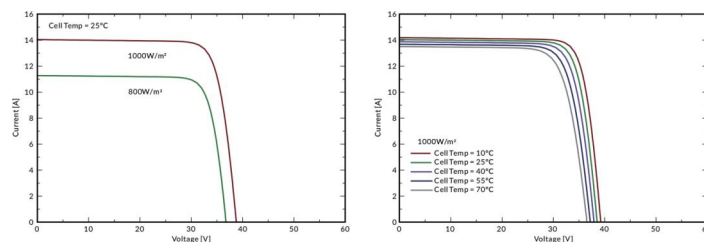
PACKAGING

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

ENGINEERING DRAWINGS

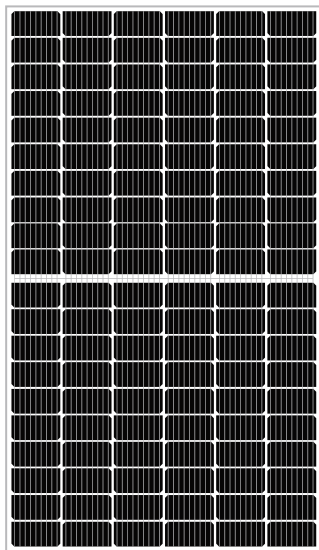


Electrical Performance & Temperature Dependence

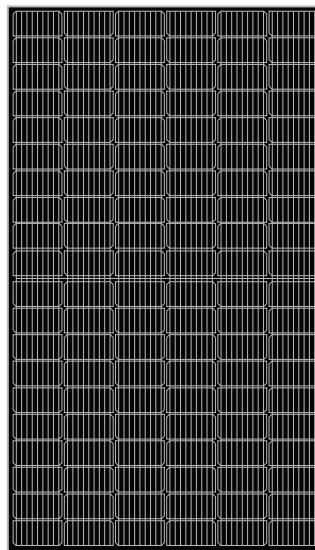


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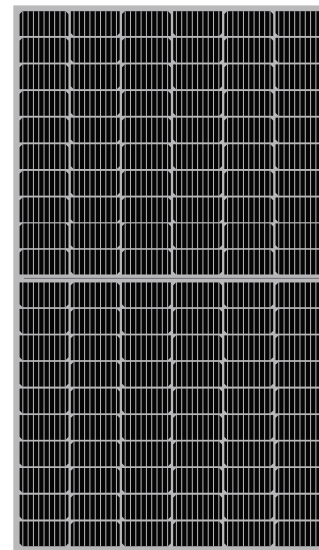
GKA182N120 480W-500W



**GKA182N120S
STANDARD**



**GKA182N120BK
BLACK VERSION**



**GKA182N120BF
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 23.10%) 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.



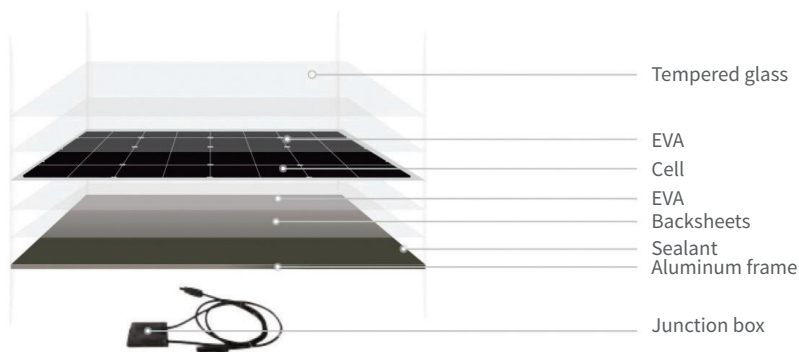
Severe Weather Resilience:

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

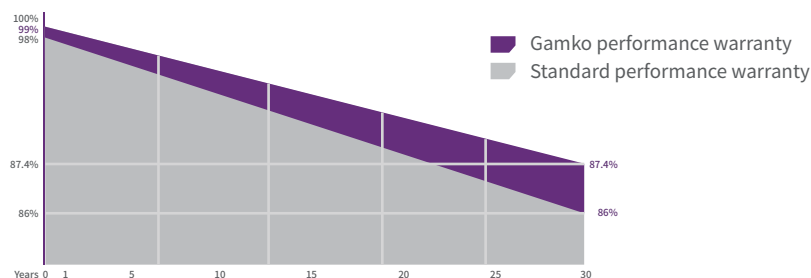
JUNCTION BOX: IP68 MAX 30A

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.

GKA182N120

480W-500W



SPECIFICATION

	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(P_{max})	480W	361W	485W	365W	490W	369W	495W	373W	500W	377W
Open Circuit Voltage (V_{oc})	43.27V	41.17V	43.48V	41.35V	43.69V	41.53V	43.90V	41.71V	44.11V	41.89V
Short Circuit Current (I_{sc})	14.19A	11.44A	14.26A	11.50A	14.33A	11.56A	14.40A	11.62A	14.47A	11.68A
Voltage at Maximum Power (V_{mpp})	36.20V	33.36V	36.38V	33.55V	36.57V	33.73V	36.75V	33.91V	36.93V	34.09V
Current at Maximum Power (I_{mpp})	13.26A	10.82A	13.33A	10.88A	13.40A	10.94A	13.47A	11.00A	13.54A	11.06A
Module Efficiency STC (%)	22.16%		22.39%		22.63%		22.87%		23.10%	

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})	504W	509W	515W	520W	525W
	Module Efficiency STC (%)	23.28%	23.52%	23.79%	24.02%	24.25%
15%	Maximum power (P_{max})	552W	558W	564W	569W	575W
	Module Efficiency STC (%)	25.50%	25.76%	26.05%	26.28%	26.56%
25%	Maximum Power(P_{max})	600W	606W	613W	619W	625W
	Module Efficiency STC (%)	27.72%	28.00%	28.32%	28.59%	28.87%

MECHANICAL CHARACTERISTICS

Cell type	Monocrystalline TOPCON 182*91mm
Number of cells	120(6x20)
Module dimensions	1909*1134*30MM
Weight	22.5/28kg
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

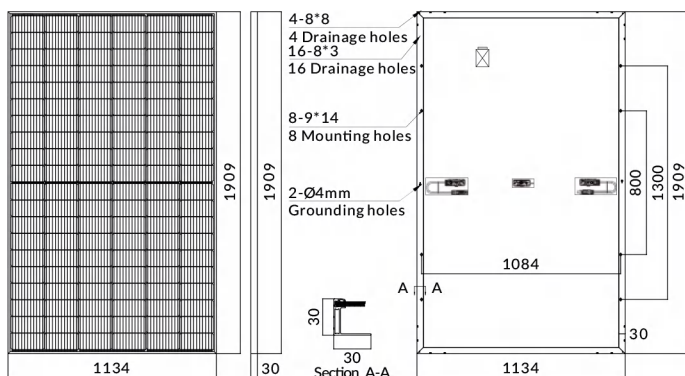
TEMPERATURE CHARACTERISTICS

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

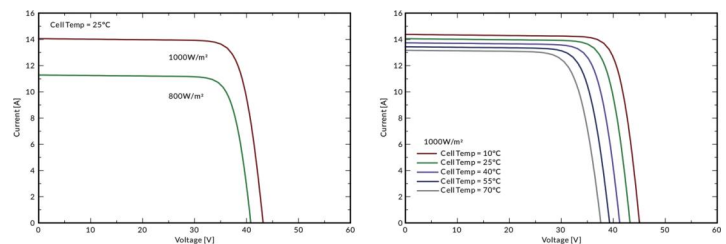
PACKAGING

Standard packaging	36pcs/pallet
Module quantity per 20' container	390pcs
Module quantity per 40' container	864pcs(HQ)

ENGINEERING DRAWINGS

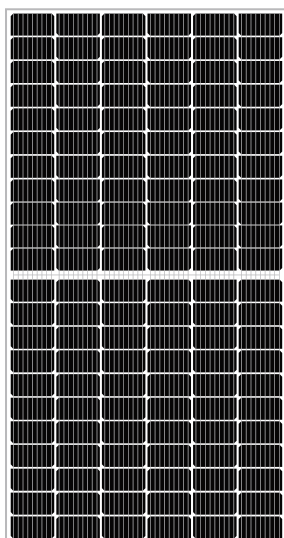


Electrical Performance & Temperature Dependence

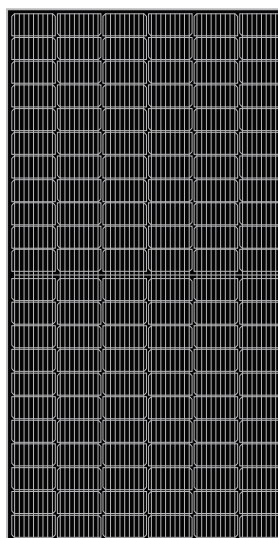


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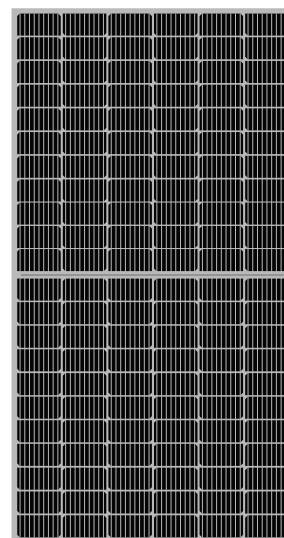
GKA182N132
530W-550W



GKA182N132S
STANDARD



GKA182N132BK
BLACK VERSION



GKA182N132BF
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 23.16%) 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.



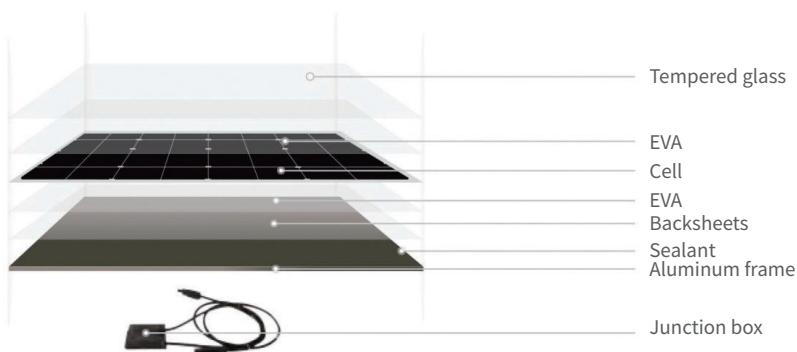
Severe Weather Resilience:

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

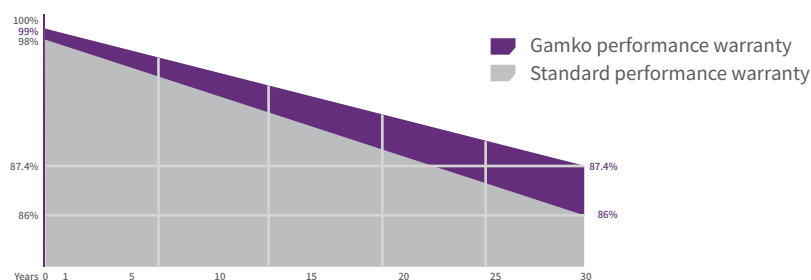
JUNCTION BOX: IP68 MAX 30A

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.

GKA182N132

530W-550W



SPECIFICATION

	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(P _{max})	530W	399W	535W	403W	540W	407W	545W	411W	550W	415W
Open Circuit Voltage (V _{oc})	47.41V	45.05V	47.60V	45.20V	47.79V	45.35V	47.98V	45.50V	48.17V	45.65V
Short Circuit Current (I _{sc})	14.28A	11.52A	14.35A	11.58A	14.42A	11.64A	14.49A	11.70A	14.56A	11.76A
Voltage at Maximum Power (V _{mpp})	39.70V	36.61V	39.87V	36.77V	40.03V	36.92V	40.19V	37.09V	40.35V	37.25V
Current at Maximum Power (I _{mpp})	13.35A	10.90A	13.42A	10.96A	13.49A	11.02A	13.56A	11.08A	13.63A	11.14A
Module Efficiency STC (%)	22.32%		22.53%		22.74%		22.95%		23.16%	

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})	557W	562W	567W	572W	578W
	Module Efficiency STC (%)	23.44%	23.67%	23.88%	24.09%	24.34%
15%	Maximum power (P _{max})	610W	615W	621W	627W	633W
	Module Efficiency STC (%)	25.67%	25.90%	26.15%	26.40%	26.66%
25%	Maximum Power(P _{max})	663W	669W	675W	681W	688W
	Module Efficiency STC (%)	27.90%	28.17%	28.43%	28.68%	28.97%

MECHANICAL CHARACTERISTICS

Cell type	Monocrystalline TOPCON 182*91mm
Number of cells	132(6x22)
Module dimensions	2094*1134*30MM
Weight	26/30kg
Front cover	3.2mm coated tempered glass
Frame	Anodized aluminum alloy
Junction box	IP68 rated (3 by pass diodes)
Cable	4mm2(0.006inches2), Portrait: 300mm(11.81inches);
Connector	PV compatible

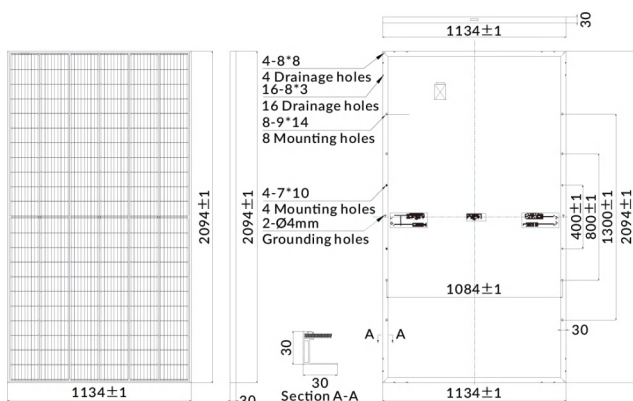
TEMPERATURE CHARACTERISTICS

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

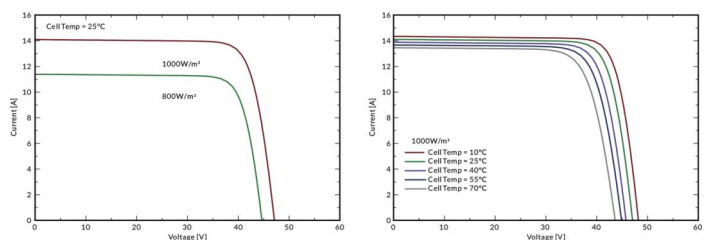
PACKAGING

Standard packaging	36pcs/pallet
Module quantity per 20' container	340pcs
Module quantity per 40' container	792pcs(HQ)

ENGINEERING DRAWINGS

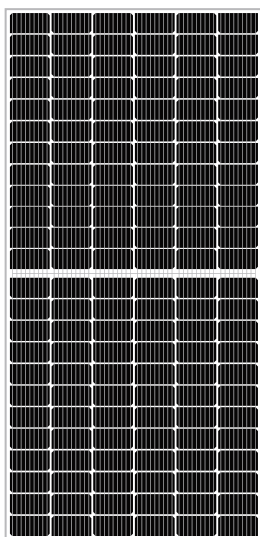


Electrical Performance & Temperature Dependence

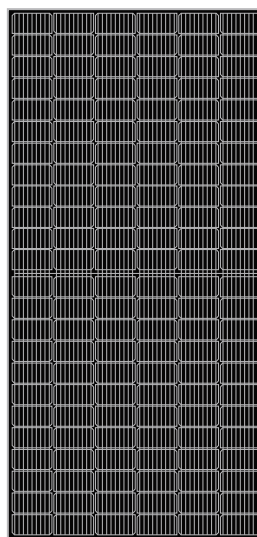


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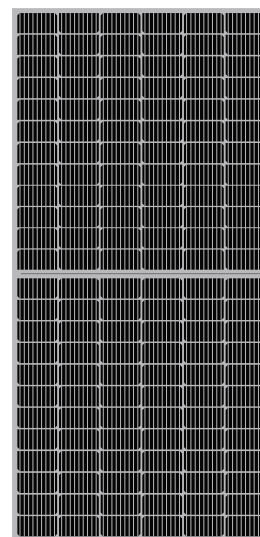
GKA182N144
580W-600W



GKA182N144S
STANDARD



GKA182N144BK
BLACK VERSION



GKA182N144BF
BIFACIAL

KEY FEATURES



M Busbar Solar Cell

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High Efficiency:

Higher module conversion efficiency (up to 23.22%) 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.



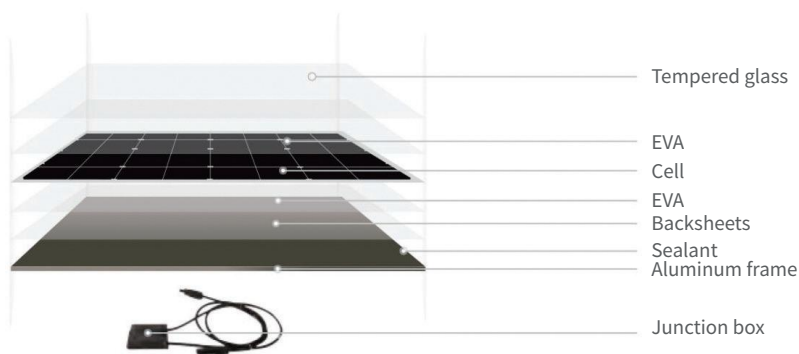
Severe Weather Resilience:

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

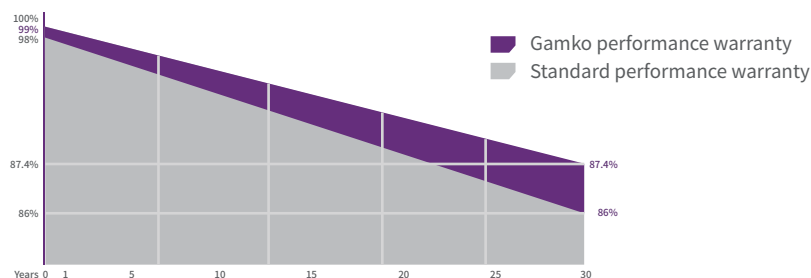
JUNCTION BOX: IP68 MAX 30A

SILICON GEL: UV, AGING-RESISTANT

FRAME: ANODIZED ALUMINUM 6005-T5

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12 Year Product Warranty · 30 Year Linear Power Warranty



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- ◆ 2 EL testing avoid cells cracking of each solar module.
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GKA182N144

580W-600W



SPECIFICATION

	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(P _{max})	580W	437W	585W	441W	590W	445W	595W	449W	600W	453W
Open Circuit Voltage (V _{oc})	51.57V	49.14V	51.71V	49.32V	51.84V	49.50V	51.98V	49.68V	52.11V	49.86V
Short Circuit Current (I _{sc})	14.33A	11.57A	14.40A	11.63A	14.47A	11.69A	14.54A	11.75A	14.61A	11.81A
Voltage at Maximum Power (V _{mpp})	43.09V	39.91V	43.24V	40.02V	43.38V	40.16V	43.53V	40.31V	43.67V	40.45V
Current at Maximum Power (I _{mpp})	13.46A	10.95A	13.53A	11.02A	13.60A	11.08A	13.67A	11.14A	13.74A	10.20A
Module Efficiency STC (%)	22.44%		22.64%		22.83%		23.02%		23.22%	

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})	609W	614W	620W	625W	630W
	Module Efficiency STC (%)	23.56%	23.76%	23.99%	24.18%	24.38%
15%	Maximum power (P _{max})	667W	673W	679W	684W	690W
	Module Efficiency STC (%)	25.81%	26.04%	26.27%	26.47%	26.70%
25%	Maximum Power(P _{max})	725W	731W	738W	744W	750W
	Module Efficiency STC (%)	28.05%	28.29%	28.56%	28.79%	29.02%

MECHANICAL CHARACTERISTICS

Cell type	Monocrystalline TOPCON 182*91mm
Number of cells	144(6x24)
Module dimensions	2279*1134*30MM
Weight	28/32kg
Front cover	3.2mm coated tempered glass
Frame	Anodized aluminum alloy
Junction box	IP68 rated (3 by pass diodes)
Cable	4mm2(0.006inches2), Portrait: 300mm(11.81inches);
Connector	PV compatible

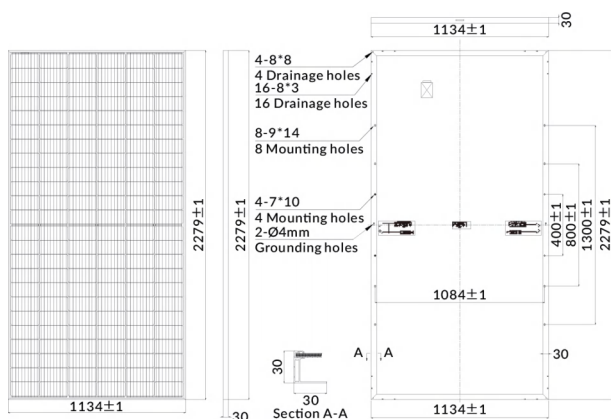
TEMPERATURE CHARACTERISTICS

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

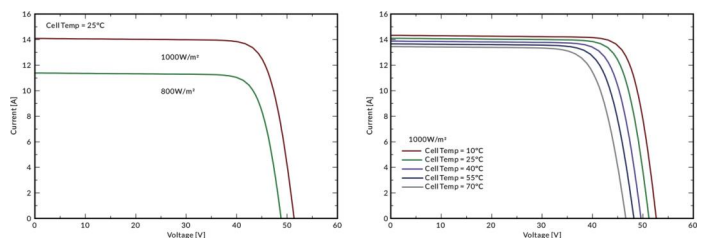
PACKAGING

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

ENGINEERING DRAWINGS



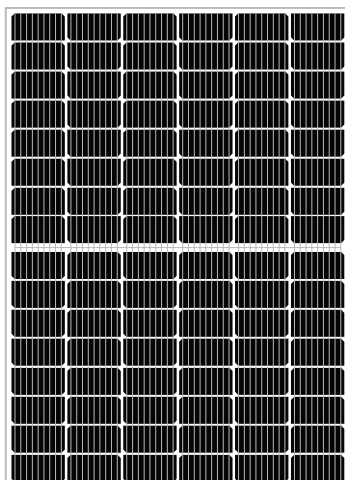
Electrical Performance & Temperature Dependence



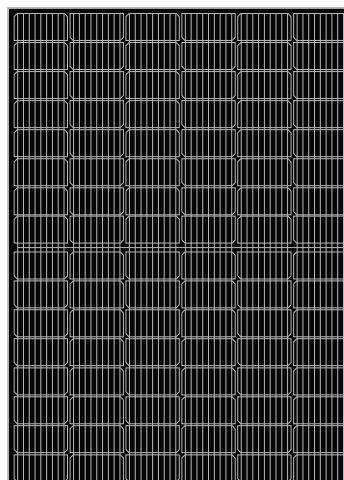
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182*210MM

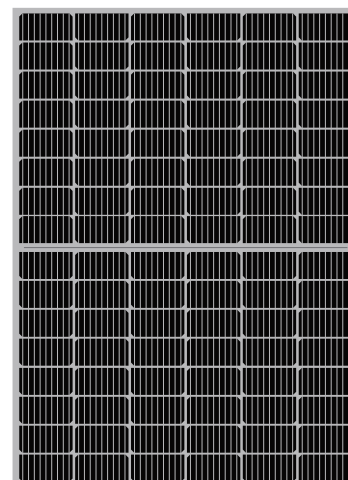
GKA96N-PRO
460W-480W



GKA96N-S
STANDARD



GKA96N-BK
BLACK VERSION



GKA96N-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.



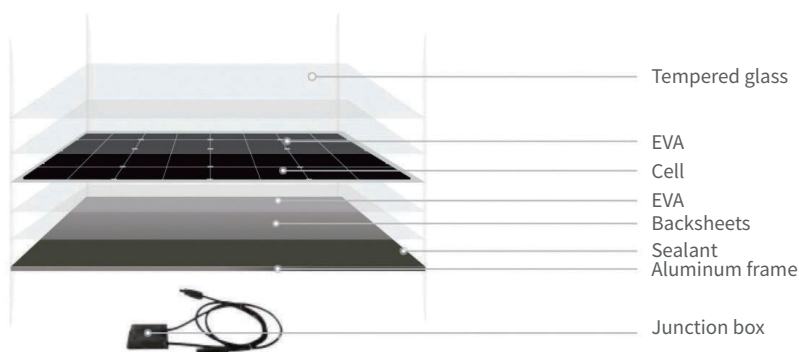
Severe Weather Resilience:

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

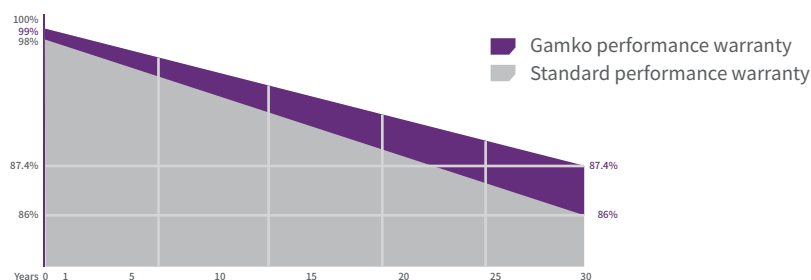
JUNCTION BOX: IP68 MAX 30A

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.

182*210MM

GKA96N-PRO
460W-480W
**SPECIFICATION**

	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(P_{max})	460W	347W	465W	351W	470W	355W	475W	358W	480W	362W
Open Circuit Voltage (V_{oc})	34.40V	32.68V	34.60V	32.88V	34.80V	33.08V	35.00V	33.28V	35.20V	33.48V
Short Circuit Current (I_{sc})	16.87A	13.51A	16.89A	13.53A	16.91A	13.55A	16.93A	13.57A	16.95A	13.59A
Voltage at Maximum Power (V_{mpp})	28.59V	26.87V	28.79V	27.07V	28.99V	27.27V	29.19V	27.47V	29.39V	27.67V
Current at Maximum Power (I_{mpp})	16.09A	12.90A	16.15A	12.95A	16.21A	13.00A	16.27A	13.05A	16.33A	13.09A
Module Efficiency STC (%)	23.02%		23.27%		23.52%		23.77%		24.02%	

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})	483W	488W	494W	499W	504W
	Module Efficiency STC (%)	24.17%	24.43%	24.70%	24.96%	25.22%
15%	Maximum power (P_{max})	529W	535W	541W	546W	552W
	Module Efficiency STC (%)	26.47%	26.76%	27.05%	27.34%	27.85%
25%	Maximum Power(P_{max})	575W	581W	588W	594W	600W
	Module Efficiency STC (%)	28.78%	29.09%	29.40%	29.71%	30.03%

MECHANICAL CHARACTERISTICS

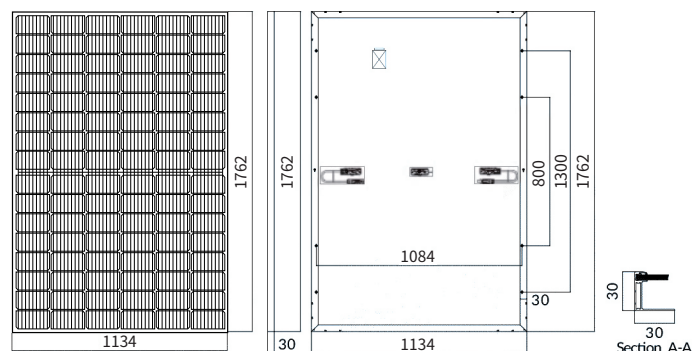
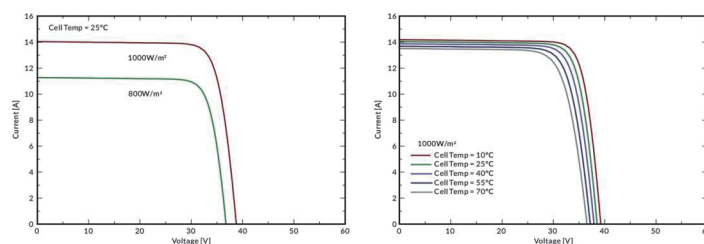
Cell type	Monocrystalline TOPCON 182*105mm
Number of cells	108(6x18)
Module dimensions	1762*1134*30MM
Weight	21/24.5kg
Front cover	3.2mm (0.13inches)tempered glass with AR coating
Frame	Anodized aluminum alloy
Junction box	IP68 rated (3 by pass diodes)
Cable	4mm2(0.006inches2),Portrait: 300mm(11.81inches);
Connector	PV compatible

TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)	45°C $\pm 2^{\circ}\text{C}$
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

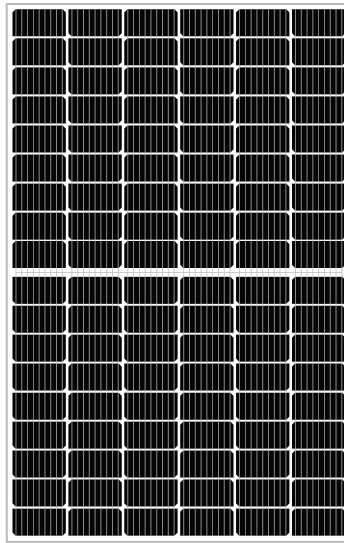
Standard packaging	36pcs/pallet
Module quantity per 20' container	400pcs
Module quantity per 40' container	936pcs(HQ)

ENGINEERING DRAWINGS**Electrical Performance & Temperature Dependence**

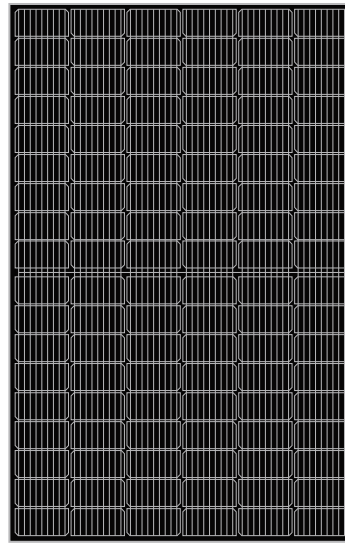
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182*210MM

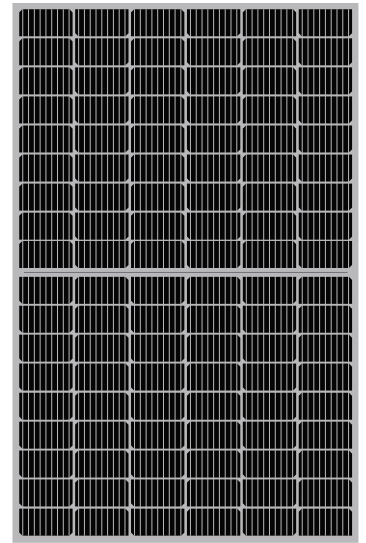
GKA108N-PRO
510W-530W



**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.



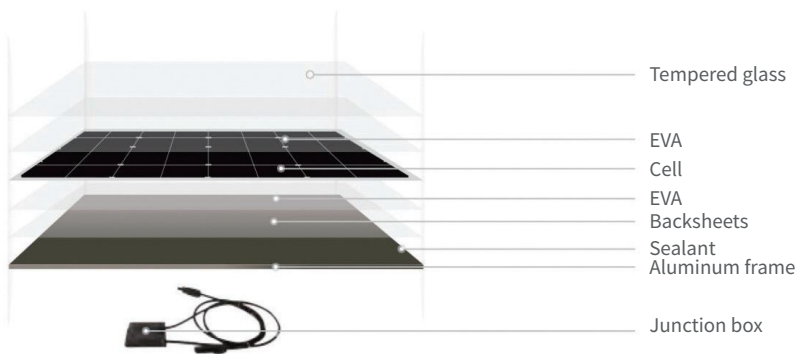
Severe Weather Resilience:

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

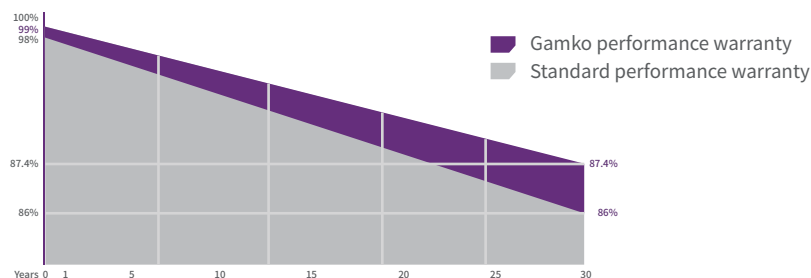
JUNCTION BOX: IP68 MAX 30A

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.

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	340W
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} : $\pm 3\%$; 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})	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

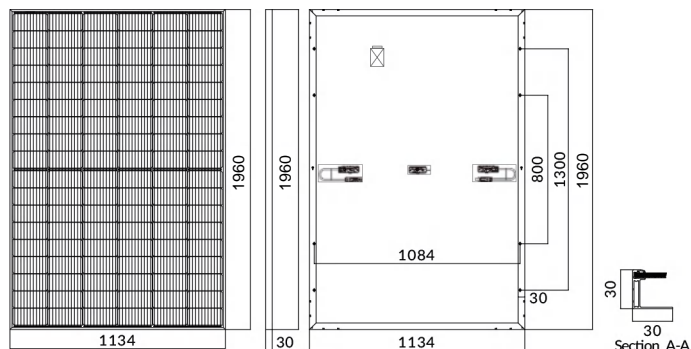
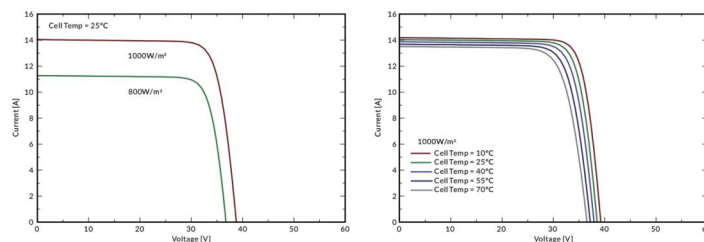
Cell type	Monocrystalline TOPCON 182*105mm
Number of cells	108(6x18)
Module dimensions	1960*1134*30MM
Weight	23.5/25kg
Front cover	3.2mm (0.13inches)tempered glass with AR coating
Frame	Anodized aluminum alloy
Junction box	IP68 rated (3 by pass diodes)
Cable	4mm2(0.006inches2),Portrait: 300mm(11.81inches);
Connector	PV compatible

TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)	45°C $\pm 2^{\circ}\text{C}$
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

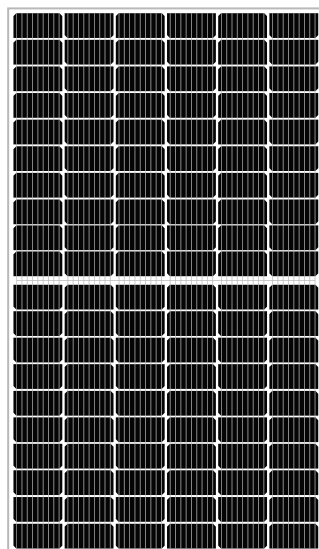
Standard packaging	36pcs/pallet
Module quantity per 20' container	384pcs
Module quantity per 40' container	864pcs(HQ)

ENGINEERING DRAWINGS**Electrical Performance & Temperature Dependence**

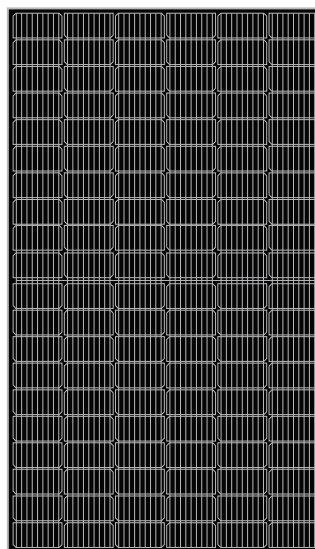
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182*210MM

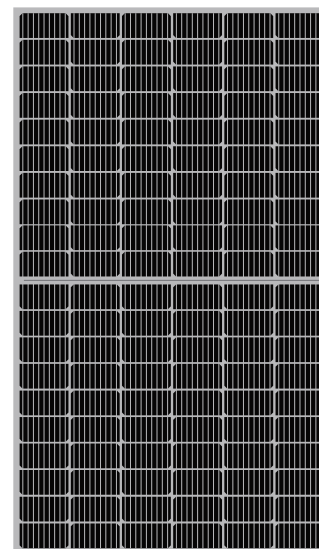
GKA120N-PRO
570W-590W



**GKA120N-S
STANDARD**



**GKA120N-BK
BLACK VERSION**



**GKA120N-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.



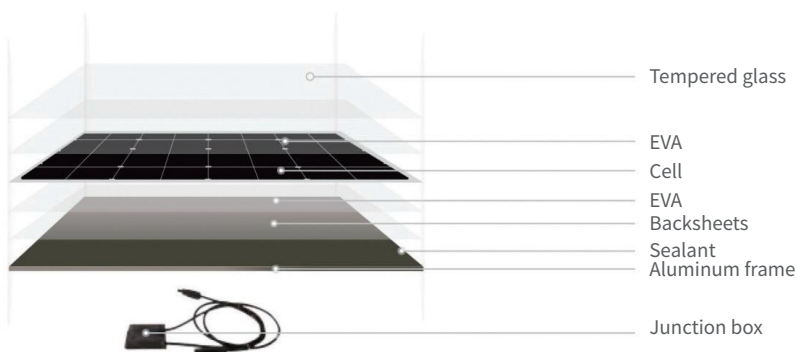
Severe Weather Resilience:

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

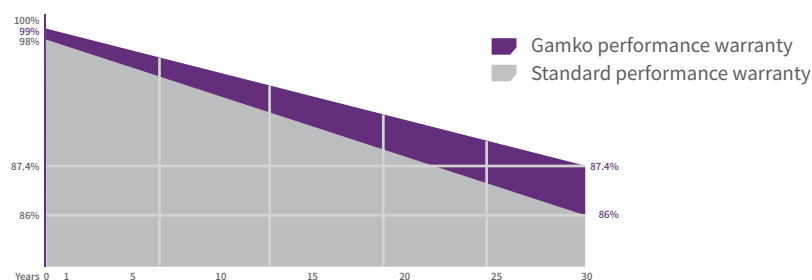
JUNCTION BOX: IP68 MAX 30A

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

GKA120N-PRO
570W-590W
**SPECIFICATION**

	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(P _{max})	570W	429W	575W	433W	580W	437W	585W	442W	590W	446W
Open Circuit Voltage (V _{oc})	42.90V	40.75V	43.10V	40.95V	43.20V	41.15V	43.30V	41.35V	43.50V	41.55V
Short Circuit Current (I _{sc})	16.90A	13.52A	16.92A	13.54A	16.94A	13.56A	16.96A	13.58A	16.98A	13.60A
Voltage at Maximum Power (V _{mpp})	35.61V	33.46V	35.81V	33.66V	36.01V	33.86V	36.21V	34.06V	36.41V	34.26V
Current at Maximum Power (I _{mpp})	16.01A	12.84A	16.06A	12.88A	16.12A	12.92A	16.18A	12.97A	16.24A	13.02A
Module Efficiency STC (%)	23.01%		23.22%		23.42%		23.62%		23.82%	

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})	599W	604W	609W	614W	620W
	Module Efficiency STC (%)	24.16%	24.38%	24.59%	24.80%	25.01%
15%	Maximum power (P _{max})	656W	661W	667W	673W	679W
	Module Efficiency STC (%)	26.46%	26.70%	26.93%	27.16%	27.39%
25%	Maximum Power(P _{max})	713W	719W	725W	731W	738W
	Module Efficiency STC (%)	28.76%	29.03%	29.28%	29.53%	29.78%

MECHANICAL CHARACTERISTICS

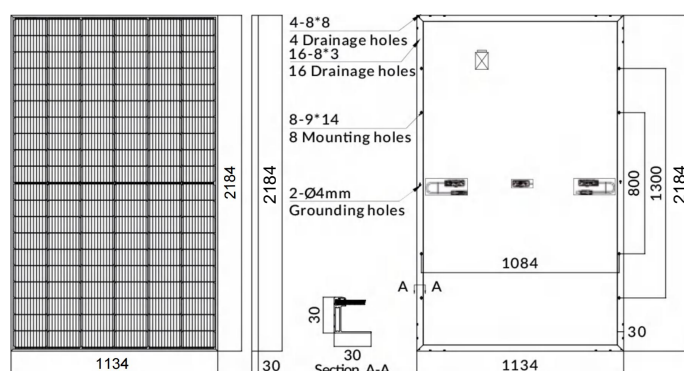
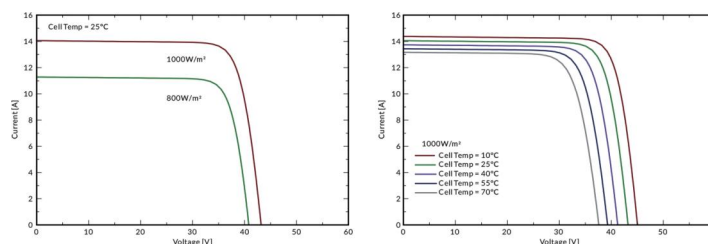
Cell type	Monocrystalline TOPCON 182*105mm
Number of cells	120(6x20)
Module dimensions	2184*1134*30MM
Weight	26.7/30.7kg
Front cover	3.2mm coated tempered glass
Frame	Anodized aluminum alloy
Junction box	IP68 rated (3 by pass diodes)
Cable	4mm2(0.006inches2), Portrait: 300mm(11.81inches);
Connector	PV 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

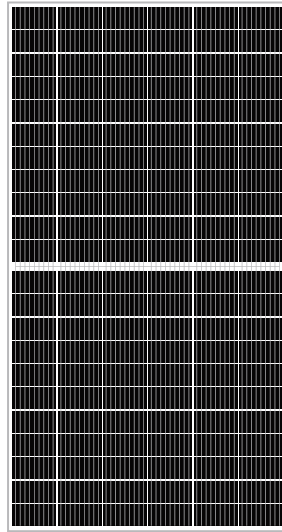
Standard packaging	36pcs/pallet
Module quantity per 20' container	332pcs
Module quantity per 40' container	720pcs(HQ)

ENGINEERING DRAWINGS**Electrical Performance & Temperature Dependence**

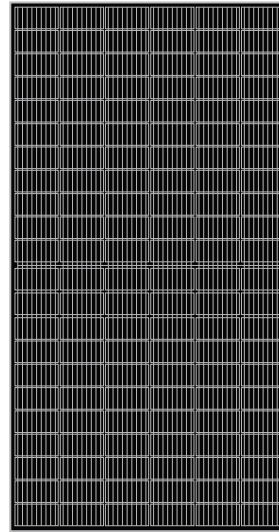
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182*210MM

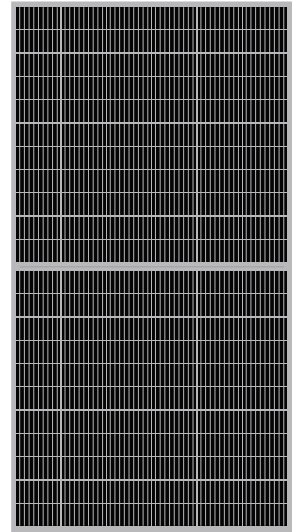
GKA132N-PRO
630W-650W



GKA132N-S
STANDARD



GKA132N-BK
BLACK VERSION



GKA132N-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:

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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.



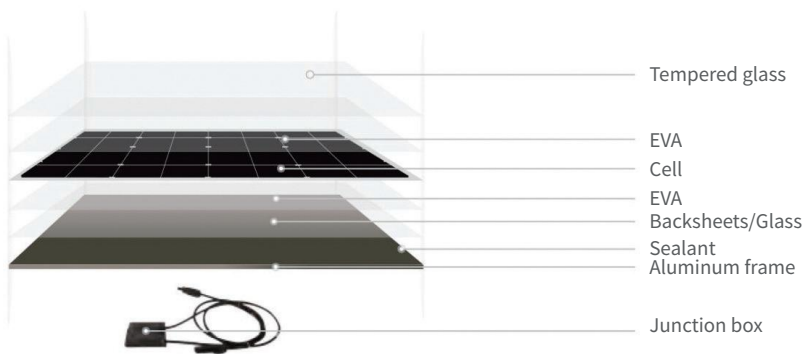
Severe Weather Resilience:

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

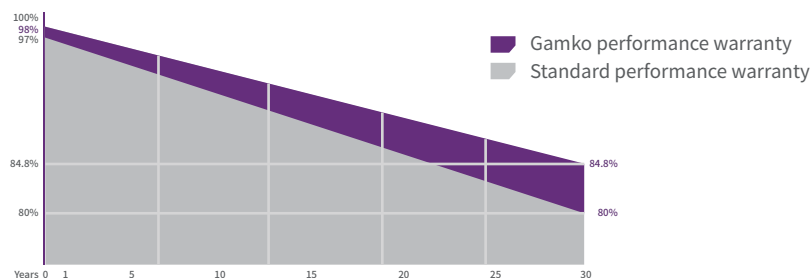
JUNCTION BOX: IP68 MAX 30A

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.

182*210MM

GKA132N-PRO
630W-650W
**SPECIFICATION**

	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(P _{max})	630W	473W	635W	477W	640W	482W	645W	487W	650W	491W
Open Circuit Voltage (V _{oc})	49.71V	47.24V	49.91V	47.44V	50.11V	47.64V	50.31V	47.84V	50.51V	48.04V
Short Circuit Current (I _{sc})	16.08A	12.87A	16.13A	12.92A	16.18A	12.97A	16.23A	13.03A	16.28A	13.09A
Voltage at Maximum Power (V _{mpp})	41.50V	38.89V	41.70V	39.09V	41.90V	39.29V	42.10V	39.49V	42.30V	39.69V
Current at Maximum Power (I _{mpp})	15.20A	12.16A	15.25A	12.21A	15.30A	12.26A	15.35A	12.32A	15.40A	12.37A
Module Efficiency STC (%)	23.18%		23.51%		23.69%		23.88%		24.06%	

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})	662W	667W	672W	677W	683W
	Module Efficiency STC (%)	24.49%	24.69%	24.97%	25.07%	25.26%
15%	Maximum power (P _{max})	725W	730W	736W	742W	748W
	Module Efficiency STC (%)	26.82%	27.04%	27.24%	27.46%	27.67%
25%	Maximum Power(P _{max})	788W	794W	800W	806W	813W
	Module Efficiency STC (%)	29.15%	29.39%	29.61%	29.85%	30.08%

MECHANICAL CHARACTERISTICS

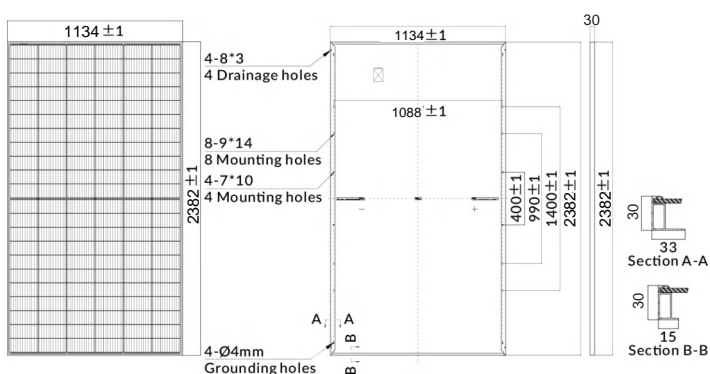
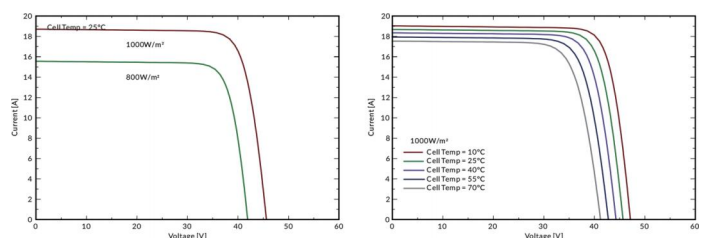
Cell type	Monocrystalline TOPCON 182*105mm
Number of cells	132(6x22)
Module dimensions	2382*1134*30MM
Weight	28.2/33.5kg
Front cover	3.2mm (0.13inches)tempered glass with AR coating
Frame	Anodized aluminum alloy
Junction box	IP68 rated (3 by pass diodes)
Cable	4mm2(0.006inches2),Portrait: 300mm(11.81inches);
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

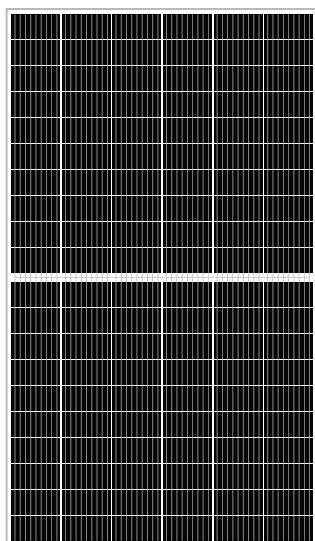
PACKAGING

Standard packaging	36pcs/pallet
Module quantity per 20' container	256pcs
Module quantity per 40' container	720pcs(HQ)

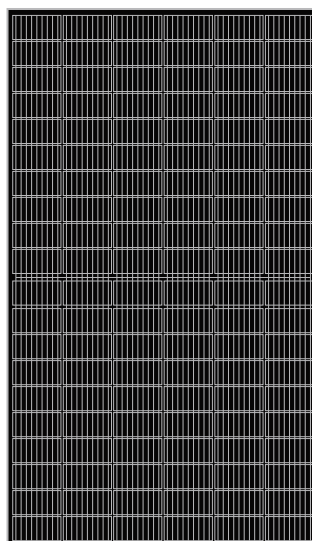
ENGINEERING DRAWINGS**Electrical Performance & Temperature Dependence**

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

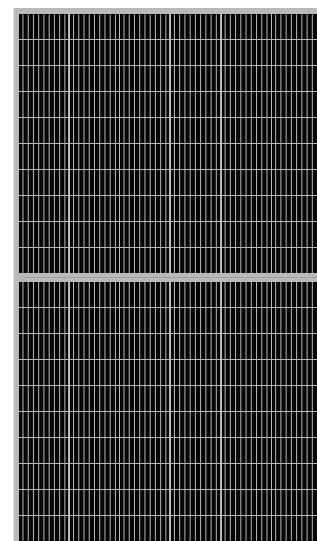
GKA210N120
660W-680W



GKA210N120S
STANDARD



GKA210N120BK
BLACK VERSION



GKA210N120BF
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 24.03%) 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.



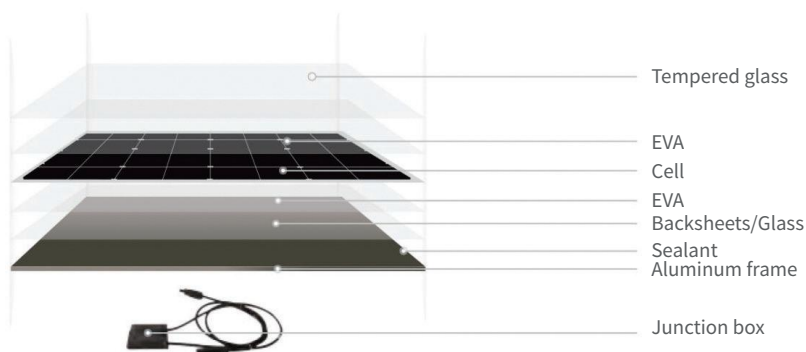
Severe Weather Resilience:

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

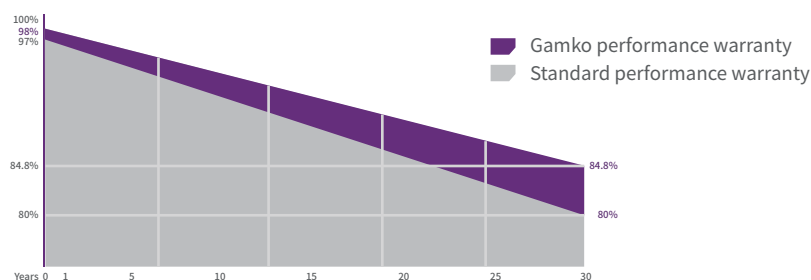
JUNCTION BOX: IP68 MAX 30A

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.

GKA210N120

660W-680W



SPECIFICATION

	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(P_{max})	660W	495W	665W	499W	670W	503W	675W	506W	680W	510W
Open Circuit Voltage (V_{oc})	42.95V	40.87V	43.18V	41.12V	43.42V	41.36V	43.64V	41.53V	43.90V	41.77V
Short Circuit Current (I_{sc})	19.36A	15.60A	19.40A	15.63A	19.45A	15.66A	19.49A	15.69A	19.52A	15.72A
Voltage at Maximum Power (V_{mpp})	35.79V	32.91V	35.98V	33.11V	36.18V	33.31V	36.37V	33.44V	36.58V	33.64V
Current at Maximum Power (I_{mpp})	18.44A	15.04A	18.48A	15.07A	18.52A	15.10A	18.56A	15.13A	18.59A	15.16A
Module Efficiency STC (%)	23.32%		23.50%		23.67%		23.85%		24.03%	

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})	693W	698W	704W	709W	714W
	Module Efficiency STC (%)	24.49%	24.68%	24.85%	25.04%	25.23%
15%	Maximum power (P_{max})	759W	765W	771W	776W	782W
	Module Efficiency STC (%)	26.82%	27.03%	27.22%	27.43%	27.63%
25%	Maximum Power(P_{max})	825W	831W	838W	844W	850W
	Module Efficiency STC (%)	29.15%	29.38%	29.59%	29.81%	30.04%

MECHANICAL CHARACTERISTICS

Cell type	Monocrystalline TOPCON 210*105mm
Number of cells	120(6x20)
Module dimensions	2172*1303*30MM
Weight	29.9/35kg
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

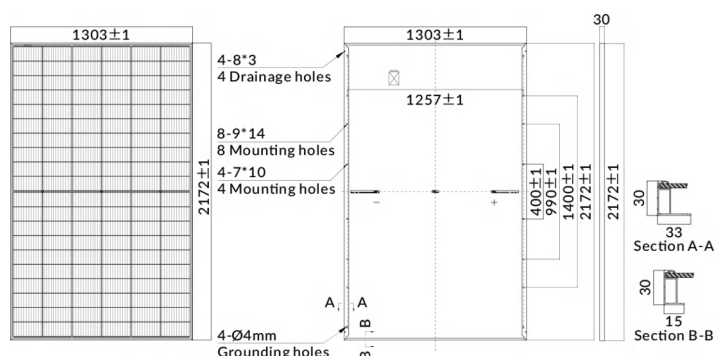
TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)	43°C $\pm 2^{\circ}\text{C}$
Temperature Coefficients of P_{max}	-0.34%/°C
Temperature Coefficients of V_{oc}	-0.25%/°C
Temperature Coefficients of I_{sc}	-0.04%/°C

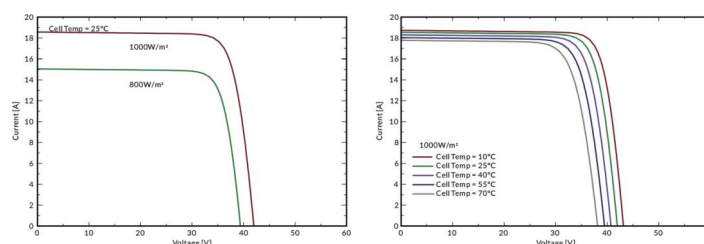
PACKAGING

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

ENGINEERING DRAWINGS

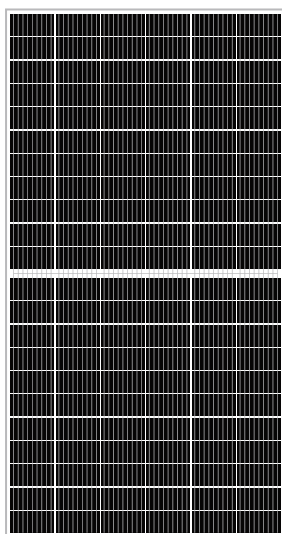


Electrical Performance & Temperature Dependence

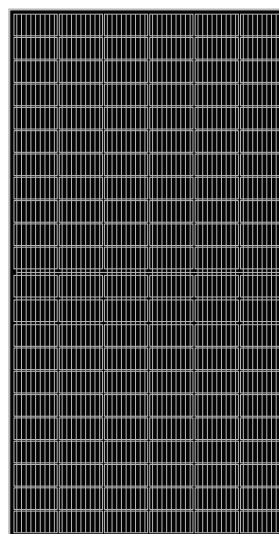


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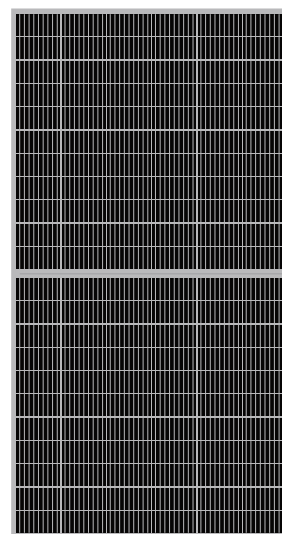
GKA210N132
730W-750W



GKA210N132S
STANDARD



GKA210N132BK
BLACK VERSION



GKA210N132BF
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 24.14%) 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.



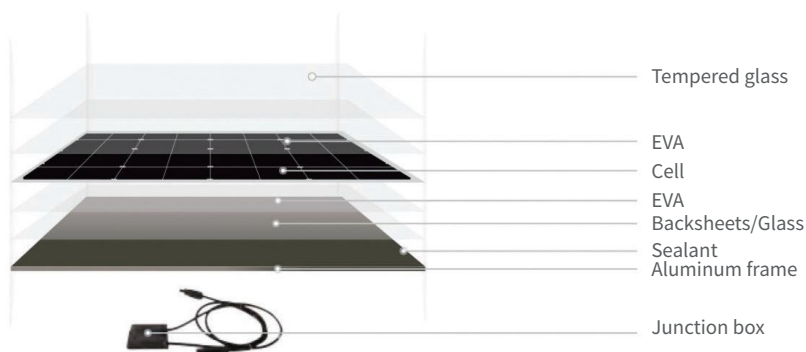
Severe Weather Resilience:

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

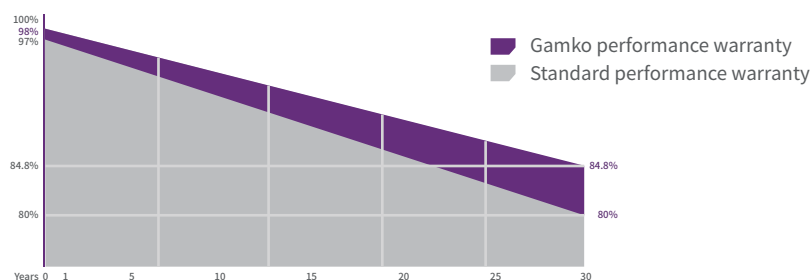
JUNCTION BOX: IP68 MAX 30A

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.

GKA210N132

730W-750W



SPECIFICATION

	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(P_{max})	730W	548W	735W	551W	740W	555W	745W	559W	750W	563W
Open Circuit Voltage (V_{oc})	47.51V	45.30V	47.72V	45.40V	47.95V	45.61V	48.17V	45.82V	48.41V	46.02V
Short Circuit Current (I_{sc})	19.36A	15.59A	19.40A	15.63A	19.45A	15.67A	19.49A	15.71A	19.52A	15.75A
Voltage at Maximum Power (V_{mpp})	39.59V	36.48V	39.77V	36.56V	39.96V	36.73V	40.14V	36.90V	40.34V	37.06V
Current at Maximum Power (I_{mpp})	18.44A	15.03A	18.48A	15.07A	18.52A	15.11A	18.56A	15.15A	18.59A	15.19A
Module Efficiency STC (%)	23.50%		23.66%		23.82%		23.98%		24.14%	

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})	767W	772W	777W	782W	788W
	Module Efficiency STC (%)	24.68%	24.84%	25.01%	25.18%	25.35%
15%	Maximum power (P_{max})	840W	845W	851W	857W	863W
	Module Efficiency STC (%)	27.03%	27.21%	27.39%	27.58%	27.76%
25%	Maximum Power(P_{max})	913W	919W	925W	931W	938W
	Module Efficiency STC (%)	29.38%	29.58%	29.78%	29.98%	30.18%

MECHANICAL CHARACTERISTICS

Cell type	Monocrystalline TOPCON 210*105mm
Number of cells	132(6x22)
Module dimensions	2384*1303*33MM
Weight	32.9/38kg
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

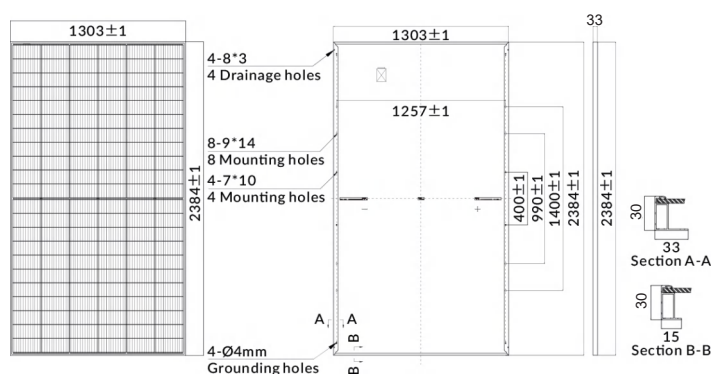
TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)	43°C \pm 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

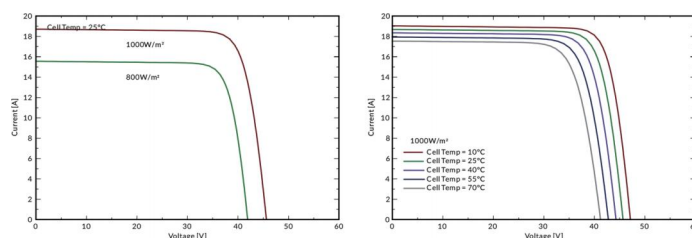
PACKAGING

Standard packaging	33pcs/pallet
Module quantity per 20' container	190pcs
Module quantity per 40' container	594pcs(HQ)

ENGINEERING DRAWINGS



Electrical Performance & Temperature Dependence



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



GAMKO SYSTEM



GAMKO CERTIFICATION



RELATED COMPONENTS



SOLAR SYSTEM





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E-mail:sales@gamkosolar.com

