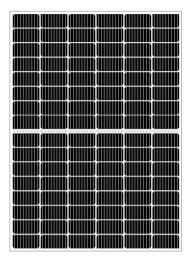
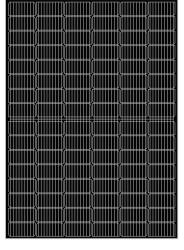
GAMKO NEW ENERGY

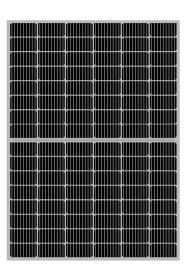
182*210MM

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.



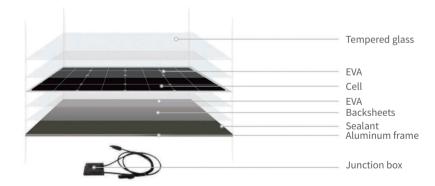
Severe Weather Resilience:

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



DURABILITY AGAINST EXTREME ENVIRONMENTAL CONDITIONS:

High salt mist and ammonia resistance certified.



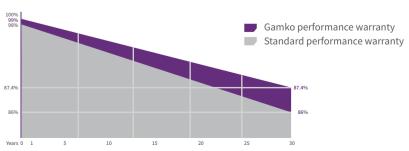
★ GAMKO SOLAR MODULE BOM

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 \cdot 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.



GKA96N-PRO 460W-480W





SPECIFICATION										
	STC	NOCT								
Maximum Power(P _{max})	460W	347W	465W	351W	470W	355W	475W	358W	480W	362W
Open Circuit Voltage (Voc)	34.40V	32.68V	34.60V	32.88V	34.80V	33.08V	35.00V	33.28V	35.20V	33.48V
Short Circuit Current (Isc)	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 (Impp)	16.09A	12.90A	16.15A	12.95A	16.21A	13.00A	16.27A	13.05A	16.33A	13.09A
Module Efficiency STC (%)	23.0	02%	23.2	27%	23.	52%	23.	77%	24.0)2%

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.

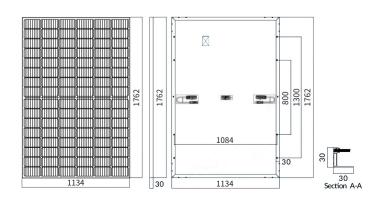
BIFACIAL OUTPUT-REARSIDE POWER GAIN										
5%	Maximum Power(P _{max})	483W	488W	494W	499W	504W				
370	Module Efficiency STC (%)	24.17%	24.43%	24.70%	24.96%	25.22%				
15%	Maximum power (P _{max})	529W	535W	541W	546W	552W				
1370	Module Efficiency STC (%)	26.47%	26.76%	27.05%	27.34%	27.85%				
25%	Maximum Power(P _{max})	575W	581W	588W	594W	600W				
23%	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	21kg						
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						

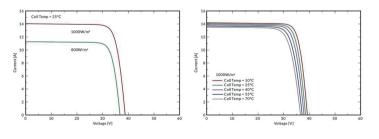
TEMPERATURE CHARACTERISTICS						
Nominal Operating Cell Temperature (NOCT)	45°C±2°C					
Temperature Coefficients of P _{max}	-0.30%/°C					
Temperature Coefficients of Voc	-0.25%/°C					
Temperature Coefficients of Isc	-0.046%/°C					

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

ENGINEERING DRAWINGS



Electrical Performance & Temperature Dependence



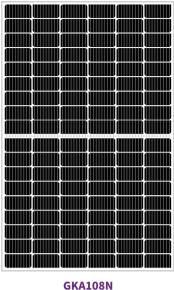
Specifications included in this datasheet are subject to change without notice.

GAMKO NEW ENERGY

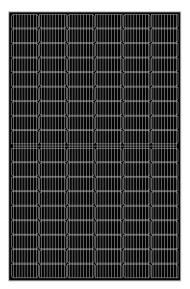
182*210MM

GKA108N-PRO 510W-530W

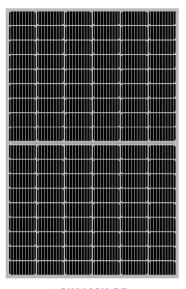




GKA108N STANDARD



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.



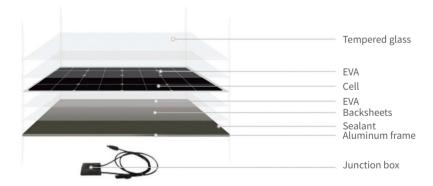
Severe Weather Resilience:

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



DURABILITY AGAINST EXTREME ENVIRONMENTAL CONDITIONS:

High salt mist and ammonia resistance certified.



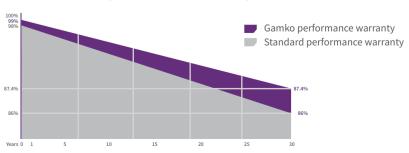
★ GAMKO SOLAR MODULE BOM

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

CELLS: TIER 1 BRANDS SOLAR CELLS

LINEAR PERFORMANCE WARRANTY

12 Year Product Warranty \cdot 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.



GKA108N-PRO 510W-530W





SPECIFICATION										
	STC	NOCT								
Maximum Power(P _{max})	510W	383W	515W	387W	520W	391W	525W	395W	530W	340W
Open Circuit Voltage (Voc)	41.10V	38.94V	41.30V	39.14V	41.50V	39.34V	41.70V	39.54V	41.90V	39.74V
Short Circuit Current (Isc)	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 (Impp)	14.79A	12.01A	14.85A	12.06A	14.91A	12.11A	14.97A	12.16A	15.03A	12.22A
Module Efficiency STC (%)	22.9	5%	23.1	.7%	23.4	10%	23.6	62%	23.8	35%

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.

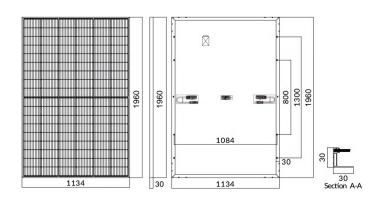
BIFACIAL OUTPUT-REARSIDE POWER GAIN										
5%	Maximum Power(P _{max})	536W	541W	546W	551W	557W				
J 70	Module Efficiency STC (%)	24.10%	24.33%	24.57%	24.80%	25.04%				
15%	Maximum power (P _{max})	587W	592W	598W	604W	610W				
1370	Module Efficiency STC (%)	26.39%	26.65%	26.91%	27.16%	27.43%				
25%	Maximum Power(P _{max})	638W	644W	650W	656W	663W				
2370	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						

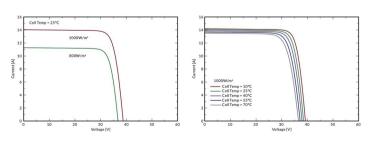
TEMPERATURE CHARACTERISTICS						
Nominal Operating Cell Temperature (NOCT)	45°C±2°C					
Temperature Coefficients of P _{max}	-0.30%/°C					
Temperature Coefficients of Voc	-0.25%/°C					
Temperature Coefficients of Isc	-0.046%/°C					

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

ENGINEERING DRAWINGS



Electrical Performance & Temperature Dependence

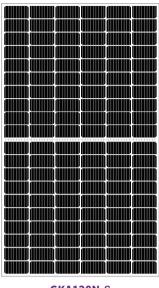


Specifications included in this datasheet are subject to change without notice.

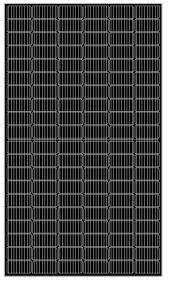


GKA120N-PRO 570W-590W

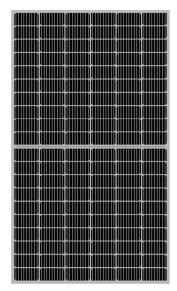




GKA120N-S STANDARD



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.



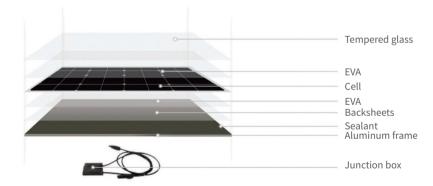
Severe Weather Resilience:

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



DURABILITY AGAINST EXTREME ENVIRONMENTAL CONDITIONS:

High salt mist and ammonia resistance certified.



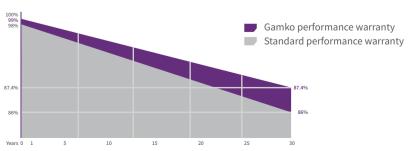
★ GAMKO SOLAR MODULE BOM

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 \cdot 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.



GKA120N-PRO 570W-590W





SPECIFICATION					
	STC NO	CT STC NOCT	STC NOCT	STC NOCT	STC NOCT
Maximum Power(P _{max})	570W 429	9W 575W 433W	580W 437W	585W 442W	590W 446W
Open Circuit Voltage (Voc)	42.90V 40.7	75V 43.10V 40.95V	43.20V 41.15V	43.30V 41.35V	43.50V 41.55V
Short Circuit Current (Isc)	16.90A 13.5	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 33.4	46V 35.81V 33.66V	36.01V 33.86V	36.21V 34.06V	36.41V 34.26V
Current at Maximum Power (Impp)	16.01A 12.8	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 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.

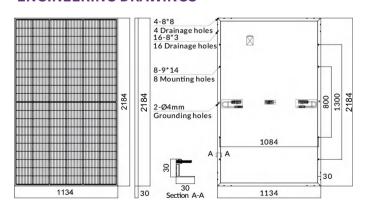
BIFACIAL OUTPUT-REARSIDE POWER GAIN										
5%	Maximum Power(P _{max})	599W	604W	609W	614W	620W				
J 70	Module Efficiency STC (%)	24.16%	24.38%	24.59%	24.80%	25.01%				
15%	Maximum power (P _{max})	656W	661W	667W	673W	679W				
1370	Module Efficiency STC (%)	26.46%	26.70%	26.93%	27.16%	27.39%				
25%	Maximum Power(P _{max})	713W	719W	725W	731W	738W				
2370	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	26.7kg					
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					

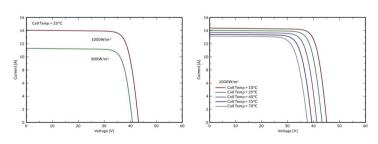
TEMPERATURE CHARACTERISTICS				
Nominal Operating Cell Temperature (NOCT)	45°C±2°C			
Temperature Coefficients of P _{max}	-0.30%/°C			
Temperature Coefficients of Voc	-0.25%/°C			
Temperature Coefficients of Isc	-0.046%/°C			

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

ENGINEERING DRAWINGS



Electrical Performance & Temperature Dependence



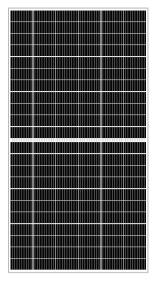
Specifications included in this datasheet are subject to change without notice.

GAMKO NEW ENERGY

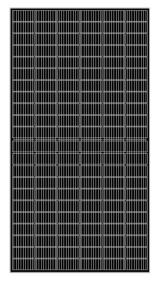
182*210MM

GKA132N-PRO 630W-650W

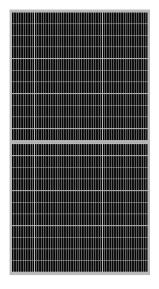




GKA132N-S STANDARD



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:

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.



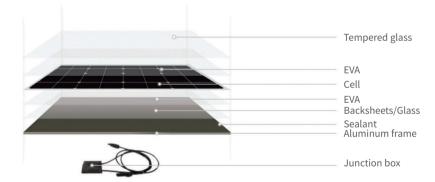
Severe Weather Resilience:

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



DURABILITY AGAINST EXTREME ENVIRONMENTAL CONDITIONS:

High salt mist and ammonia resistance certified.



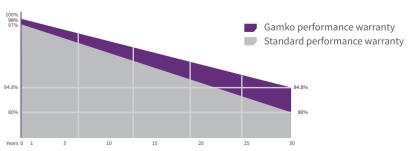
★ GAMKO SOLAR MODULE BOM

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 \cdot 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.

GKA132N-PRO 630W-650W







SPECIFICATION										
	STC 1	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 (V₀c)	49.71V 4	17.24V	49.91V	47.44V	50.11V	47.64V	50.31V	47.84V	50.51V	48.04V
Short Circuit Current (Isc)	16.08A 1	.2.87A	16.13A	12.92A	16.18A	12.97A	16.23A	13.03A	16.28A	13.09A
Voltage at Maximum Power (V _{mpp})	41.50V 3	38.89V	41.70V	39.09V	41.90V	39.29V	42.10V	39.49V	42.30V	39.69V
Current at Maximum Power (Impp)	15.20A 1	12.16A	15.25A	12.21A	15.30A	12.26A	15.35A	12.32A	15.40A	12.37A
Module Efficiency STC (%)	23.189	%	23.5	1%	23.6	59%	23.8	38%	24.0)6%

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

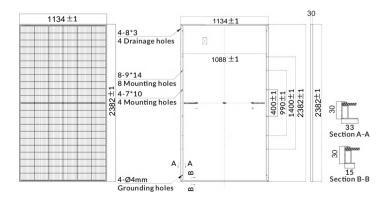
BIFACIAL OUTPUT-REARSIDE POWER GAIN								
5%	Maximum Power(P _{max})	662W	667W	672W	677W	683W		
J 70	Module Efficiency STC (%)	24.49%	24.69%	24.97%	25.07%	25.26%		
15%	Maximum power (P _{max})	725W	730W	736W	742W	748W		
1370	Module Efficiency STC (%)	26.82%	27.04%	27.24%	27.46%	27.67%		
25%	Maximum Power(P _{max})	788W	794W	800W	806W	813W		
2370	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	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					

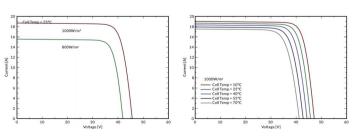
TEMPERATURE CHARACTERISTICS				
Nominal Operating Cell Temperature (NOCT)	43°C±2°C			
Temperature Coefficients of P _{max}	-0.34%/°C			
Temperature Coefficients of Voc	-0.25%/°C			
Temperature Coefficients of Isc	-0.04%/°C			

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.