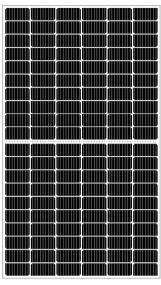


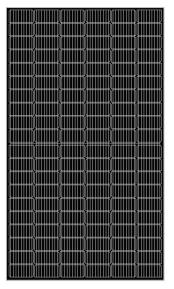


GKA182N120 480W-500W

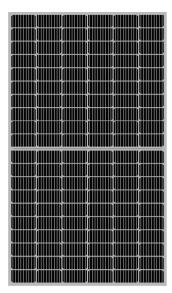




GKA182N120S STANDARD



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.



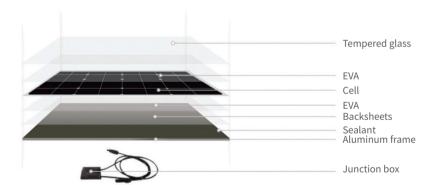
Severe Weather Resilience:

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



DURABILITY AGAINST EXTREME ENVIRONMENTAL CONDITIONS:

High salt mist and ammonia resistance certified.



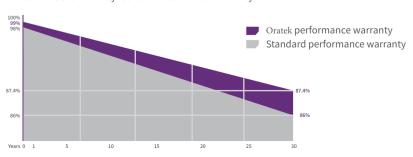
★ ORATEK SOLAR MODULE BOM

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



★ ORATEK 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.
- Oratek official Warranty cover all Oratek solar module30 years.

www.office@oratek-hk.com





GKA182N120 480W-500W

SPECIFICATION					
	STC NOC	STC NOCT	STC NOCT	STC NOCT	STC NOCT
Maximum Power(P _{max})	480W 361V	485W 365W	490W 369W	495W 373W	500W 377W
Open Circuit Voltage (Voc)	43.27V 41.17	43.48V 41.35V	43.69V 41.53V	43.90V 41.71V	44.11V 41.89V
Short Circuit Current (Isc)	14.19A 11.44	A 14.26A 11.50A	14.33A 11.56A	14.40A 11.62A	14.47A 11.68A
Voltage at Maximum Power (V _{mpp})	36.20V 33.36	36.38V 33.55V	36.57V 33.73V	36.75V 33.91V	36.93V 34.09V
Current at Maximum Power (Impp)	13.26A 10.82	A 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 Pmax: ±3%; Measurement Tolerance: ±3%, Pmax According Orateks official testing.

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

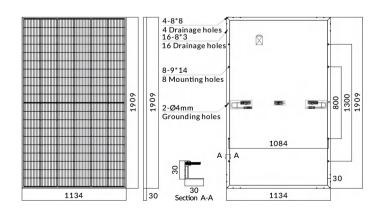
BIFACIAL OUTPUT-REARSIDE POWER GAIN						
5%	Maximum Power(P _{max})	504W	509W	515W	520W	525W
370	Module Efficiency STC (%)	23.28%	23.52%	23.79%	24.02%	24.25%
15%	Maximum power (P _{max})	552W	558W	564W	569W	575W
1370	Module Efficiency STC (%)	25.50%	25.76%	26.05%	26.28%	26.56%
25%	Maximum Power(P _{max})	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	21kg	
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	

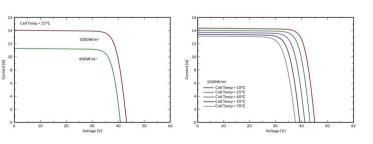
TEMPERATURE CHARACTERISTICS			
Nominal Operating Cell Temperature (NOCT)	45°C±2°C		
Temperature Coefficients of P _{max}	-0.30%/°C		
Temperature Coefficients of Voc	-0.25%/°C		
Temperature Coefficients of Isc	-0.046%/°C		

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

ENGINEERING DRAWINGS



Electrical Performance & Temperature Dependence



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

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