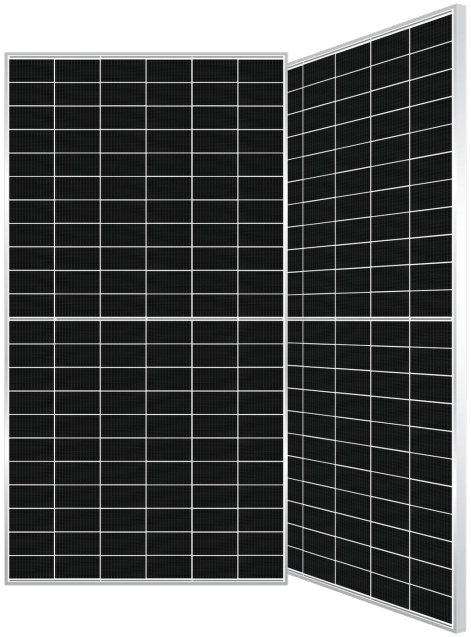
ORATEK TRADING LIMITED

GKA210N132
700W-720W



KEY FEATURES

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

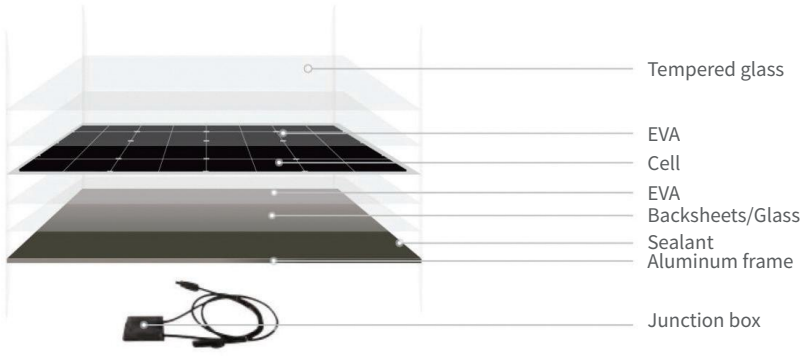
High Efficiency:
Higher module conversion efficiency(up to 23.50%) benefit from HJT cell technology.

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.

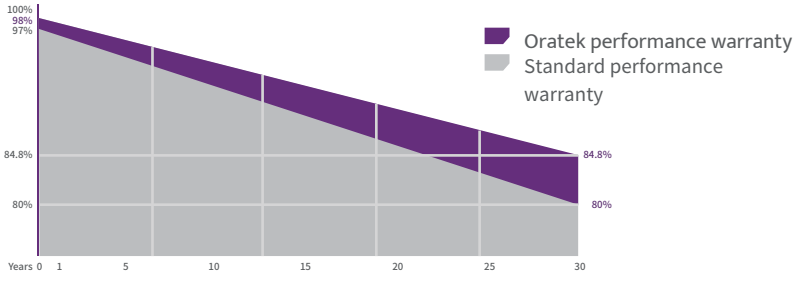


★ ORATEK SOLAR MODULE BOM

CELLS: TIER 1 BRANDS SOLAR CELLS
FRONT SIDE GLASS: 2.0MM,ANTI-REFLECTION COATING GLASS
EVA:TRANSPARENCY>93%
BACK SIDE GLASS: 2.0MM,HIGH TRANSPARENCY SOLAR GLASS
JUNCTION BOX: IP68 MAX 30A
SILICON GEL: UV,AGING-RESISTANT
FRAME: ANODIZED ALUMINUM ALLOY

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 Gamko solar module30 years.

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SPECIFICATION

	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(P_{max})	700W	542W	705W	546W	710W	550W	715W	554W	720W	558W
Open Circuit Voltage (V_{oc})	49.17V	45.82V	49.24V	45.89V	49.30V	45.96V	49.37V	46.03V	49.44V	46.10V
Short Circuit Current (I_{sc})	17.31A	14.50A	17.39A	14.57A	17.47A	14.63A	17.55A	14.70A	17.62A	14.77A
Voltage at Maximum Power (V_{mpp})	43.21V	38.91V	43.40V	39.10V	43.59V	39.39V	43.78V	39.49V	43.96V	39.67V
Current at Maximum Power (I_{mpp})	16.23A	13.93A	16.27A	13.96A	16.30A	14.00A	16.33A	14.03A	16.39A	14.07A
Module Efficiency STC (%)	22.70%		22.90%		23.10%		23.30%		23.50%	

STC: Irradiance 1000W/m2, Cell temperature 25°C, AM1.5; Tolerance of Pmax: ±3%; Measurement Tolerance: ±3%, Pmax According Oratek's 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})	735W	740W	746W	751W	756W
	Module Efficiency STC (%)	23.66%	23.83%	24.00%	24.17%	24.34%
15%	Maximum power (P_{max})	805W	811W	817W	822W	828W
	Module Efficiency STC (%)	25.91%	26.10%	26.28%	26.47%	26.66%
25%	Maximum Power(P_{max})	875W	881W	888W	894W	900W
	Module Efficiency STC (%)	28.17%	28.37%	28.57%	28.78%	28.98%

MECHANICAL CHARACTERISTICS

Cell type	Monocrystalline HJT 210*105mm
Number of cells	132(6x22)
Module dimensions	2384*1303*33MM
Weight	Approx 38.7kg
Glass	Double glass, 2.0mm
Frame	Anodized aluminum alloy
Junction box	IP68 rated (3 by pass diodes)
Cable	4mm2(0.006inches2),Portrait: 300mm(11.81inches);
Connector	PV compatible

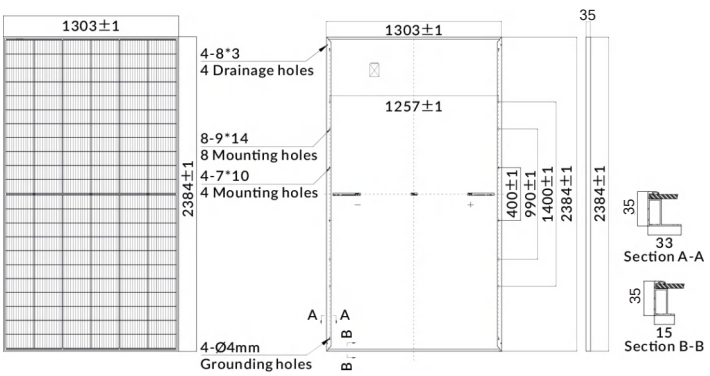
TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)	45°C±2°C
Temperature Coefficients of P_{max}	-0.24%/°C
Temperature Coefficients of V_{oc}	-0.22%/°C
Temperature Coefficients of I_{sc}	+0.04%/°C
Operating Temperature	-45°C~+85°C

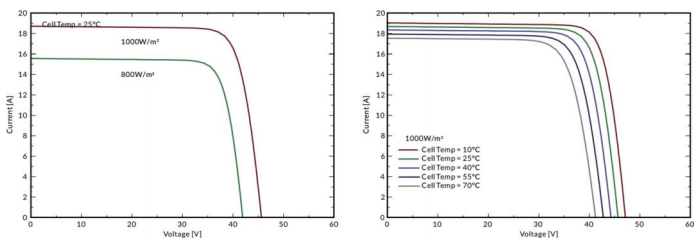
PACKAGING

Standard packaging	33pcs/pallet
Pallets per container	18 pallets
Module quantity per 40' container	594pcs(HQ)

ENGINEERING DRAWINGS



Electrical Performance & Temperature Dependence



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