



ocean solar

AOX-132G12RHC 600W-630W

HIGH VALUE

Low LCOE, reduced BOS cost, quick payback.

More harvest with N-type TOPCon.

Compatible, efficient container use cuts freight.

HIGH POWER UP TO 630W

23.3% module efficiency, dense interconnect.

SMBB for trapping, lower resistance, better collection.

RELIABLE

Fewer micro-cracks, PID resistant, endure harsh conditions.

Mechanical performance up to 5400 Pa positive, 2400 Pa negative.

HIGH ENERGY YIELD

Excellent IAM, low irradiation validated by 3rd party certs.

Lower degradation: 1% first year, 0.4% annually.

Lower temperature coefficient (-0.30%).

Up to 30% extra power gain from back side depending on albedo.

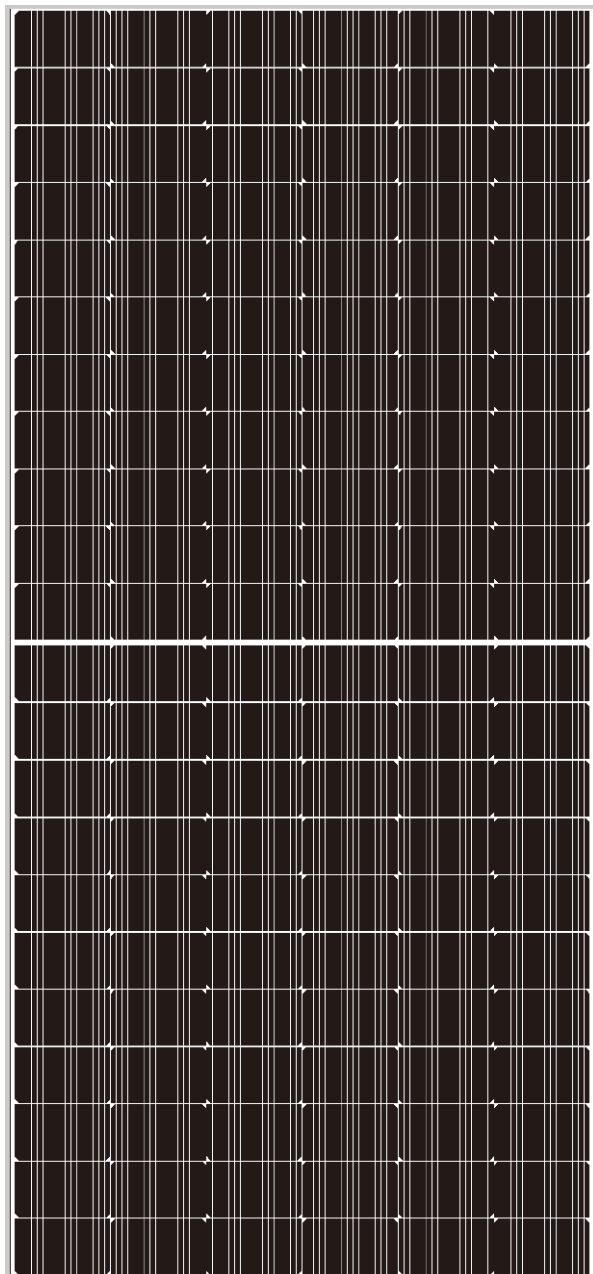
PRODUCT Certifications



PRODUCT Warranty

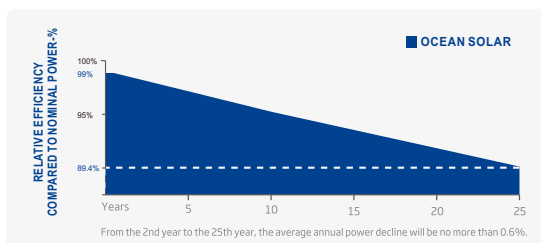
12-year Warranty for Materials and Processing

25-year Warranty for Extra Linear Power Output



N-TopCon Technology

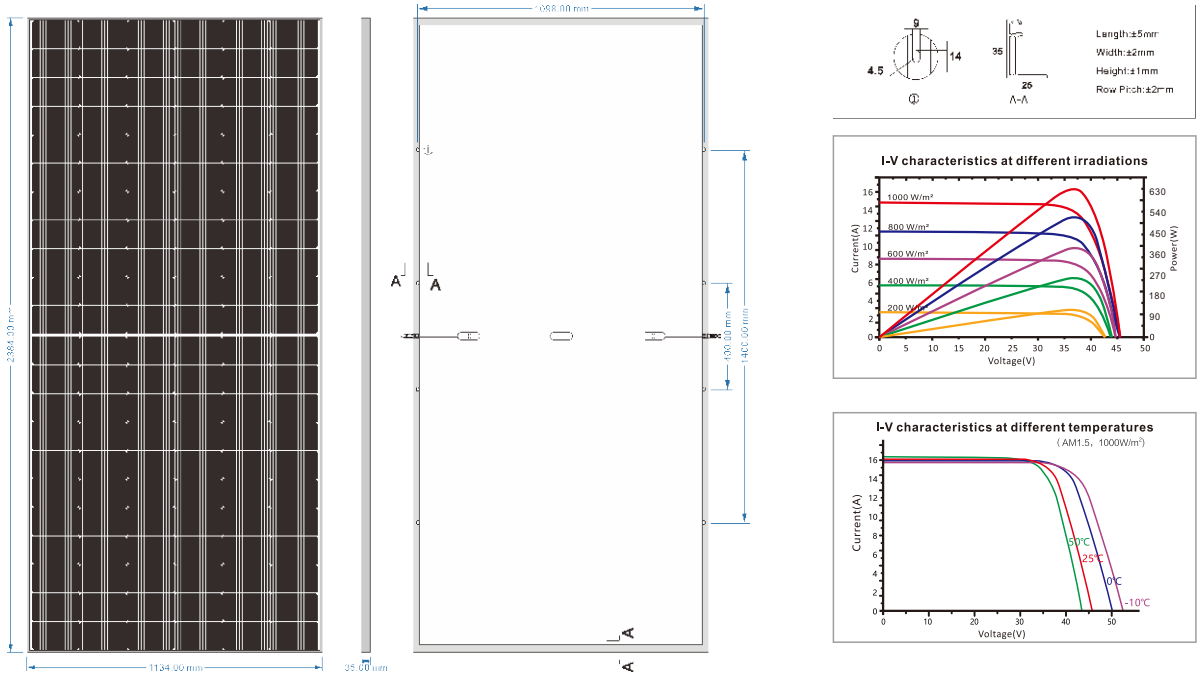
Enhance efficiency, reduce micro-cracks.



WORLD SHINES BECAUSE OF YOU



High-tech enterprises in China



Electrical Characteristics STC:AM1.5 1000W/m² 25°C NOCT:AM1.5 800W/m² 20°C 1m/s Test uncertainty for Pmax:±3%

Module Type	AOX-132G12RHC600W		AOX-132G12RHC605W		AOX-132G12RHC610W		AOX-132G12RHC615W		AOX-132G12RHC620W		AOX-132G12RHC625W		AOX-132G12RHC630W	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	600W	445W	605W	459W	610W	463W	615W	467W	620W	471W	625W	475W	630W	479W
Voltage at Maximum Power(Vmp/V)	40.30	37.80	40.50	38.00	40.70	38.20	40.90	38.40	41.10	38.60	41.30	38.80	41.50	39.00
Current at Maximum Power(Imp/A)	14.89	12.04	14.94	12.08	14.99	12.12	15.04	12.16	15.09	12.20	15.14	12.24	15.19	12.28
Open Circuit Voltage(Voc/V)	48.40	45.80	48.60	46.00	48.80	46.20	49.00	46.40	49.20	46.60	49.40	46.80	49.60	47.00
Short Circuit Current(Isc/A)	15.72	12.71	15.78	12.76	15.83	12.80	15.88	12.84	15.94	12.89	15.98	12.93	16.03	12.97
Module Efficiency(%)	22.10%		22.30%		22.50%		22.70%		22.90%		23.00%		23.30%	

Mechanical Parameters

Cell Orientation	6*22(132)solar half cells
Junction Box	IP 68 3 diodes
Output Cable	4.0mm² solar cable(IEC) (+)≥350mm(-)≥350mm or customized
Front Glass	3.2 mm, Anti-reflection Coating, High Transmission, Low Iron, Fully Strengthened Glass
Frame	35mm Anodized Aluminium Alloy
Weight	28kg(+/-0.5kg)
Dimension	2384*1134*35mm
Packaging	31pcs/pallet, 620pcs/40HQ Container

Mechanical Loading

Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

Product Warranty

Warranty for Materials and Processing	12 Years
Warranty for Extra Linear Power Output	25 Years

Operating Parameters

Operational Temperature	-40~+85°C
Power Output Tolerance	0~5W
Voc and Isc Tolerance	±3%
Maximum System Voltage	1000/1500VDC(IEC)
Maximum Series Fuse Rating	25A
Nominal Operational Cell Temperature	45±2°C
Protection Class	Class II
Fire Rating	UL type 1 or 2 IEC Class C

Temperature Ratings(STC)

Temperature Coefficient of Isc	0.046%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Pmax	-0.30%/°C

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

