



ocean solar

AOX-72M10HC

550W-590W

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 590W

22.8% 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.

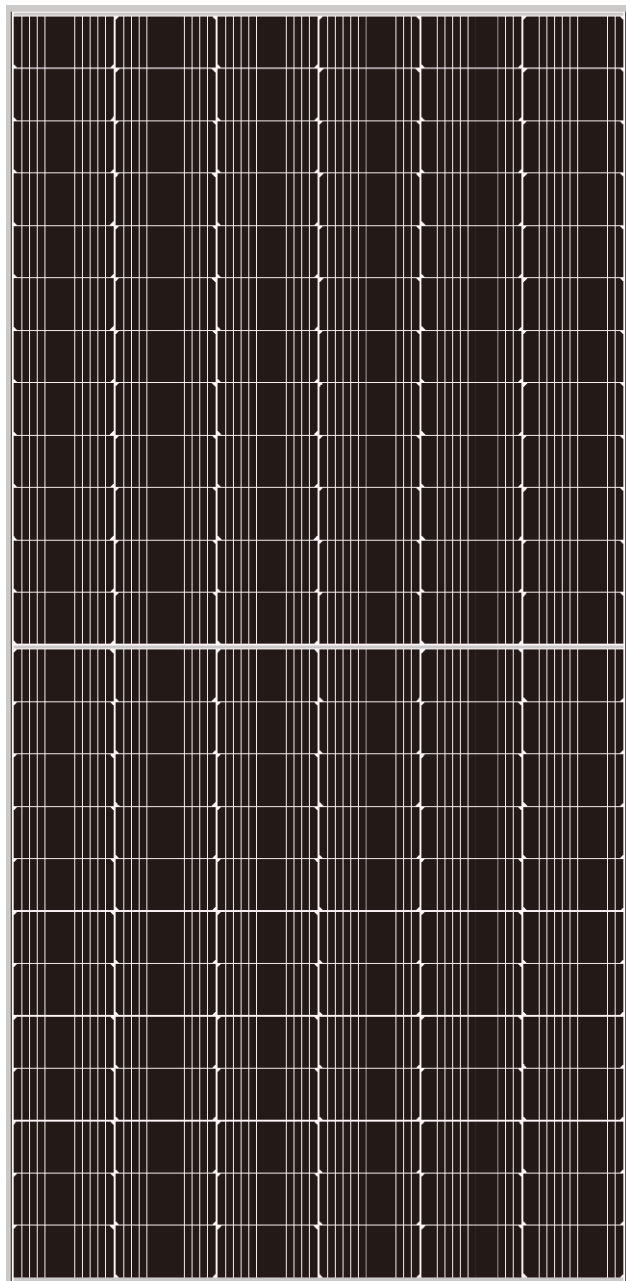
PRODUCT Certifications



PRODUCT Warranty

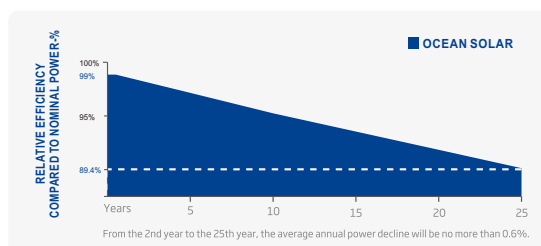
12-year Warranty for Materials and Processing

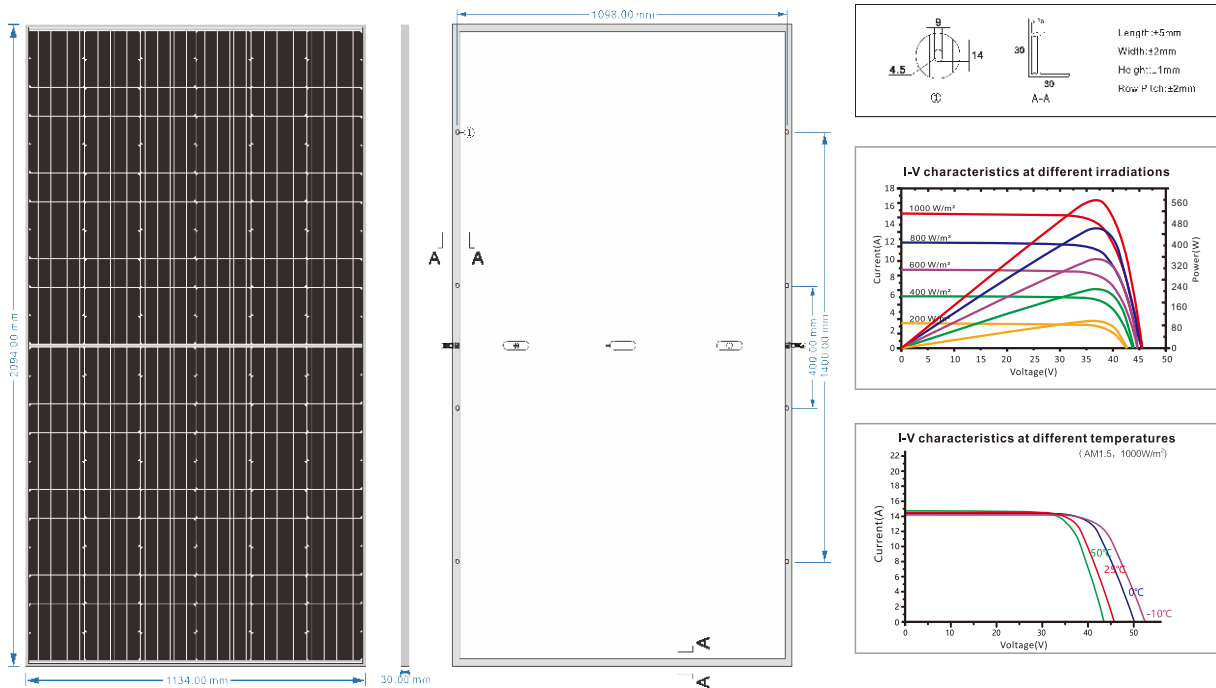
25-year Warranty for Extra Linear Power Output



N-TopCon Technology

Enhance efficiency, reduce micro-cracks.





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-66M10HC500W		AOX-66M10HC510W		AOX-66M10HC520W		AOX-66M10HC530W		AOX-66M10HC540W	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	500W	377W	510W	384W	520W	391W	530W	399W	540W	406W
Voltage at Maximum Power(Vmp/V)	38.40	36.20	38.80	36.60	39.20	37.00	39.60	37.40	40.00	37.80
Current at Maximum Power(Imp/A)	13.03	10.41	13.15	10.49	13.27	10.57	13.39	10.67	13.50	10.74
Open Circuit Voltage(Voc/V)	46.60	44.40	47.00	44.80	47.40	45.20	47.80	44.60	48.20	45.00
Short Circuit Current(Isc/A)	13.81	11.04	13.94	11.12	14.06	11.20	14.19	11.31	14.31	11.39
Module Efficiency(%)	21.10%		21.50%		21.90%		22.30%		22.70%	

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	30mm Anodized Aluminium Alloy
Weight	25kg(+/-0.5kg)
Dimension	2094*1134*30mm
Packaging	31pcs/pallet,792pcs/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

 High-tech enterprises in China



Ocean Solar

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

