



ocean solar

AOX-132M10RHC

550W-580W

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 580W

23.3% module efficiency, dense interconnect.

SMBB for trapping, lower resistance, better collection.

RELIABLE

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

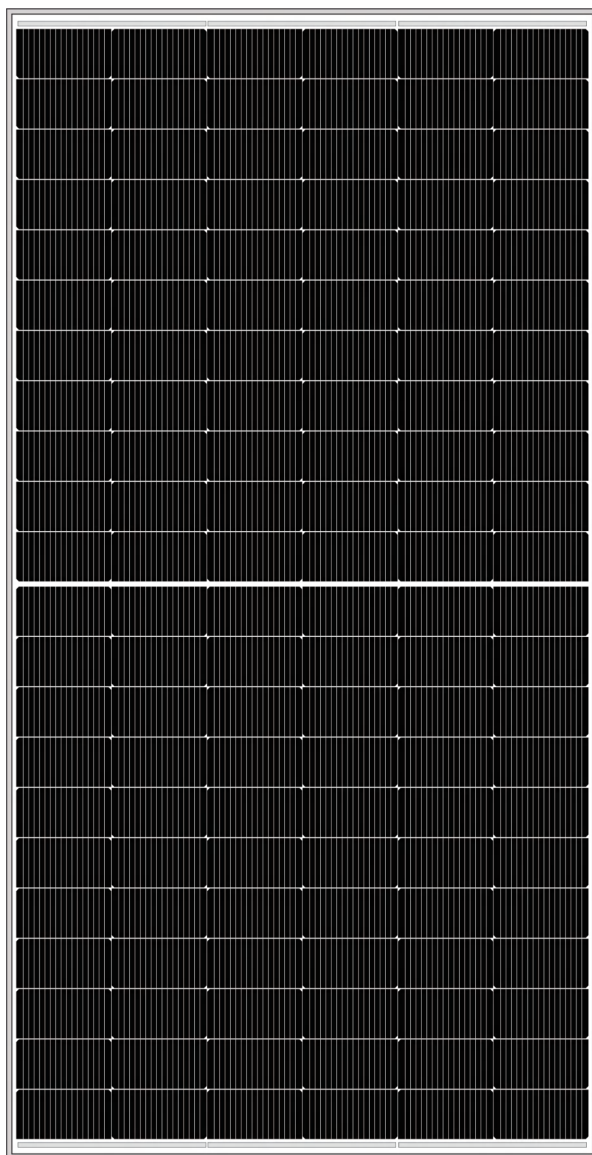
Mechanical performance up to 5400 Pa positive, 2400 Pa negative.

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%).



PRODUCT Certifications



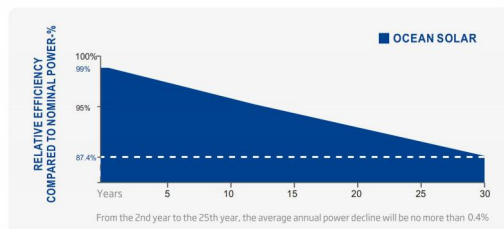
PRODUCT Warranty

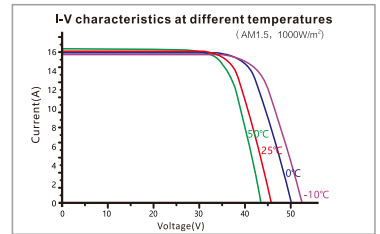
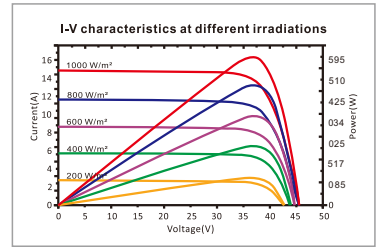
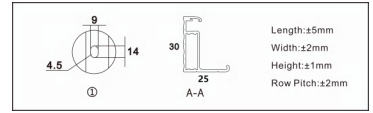
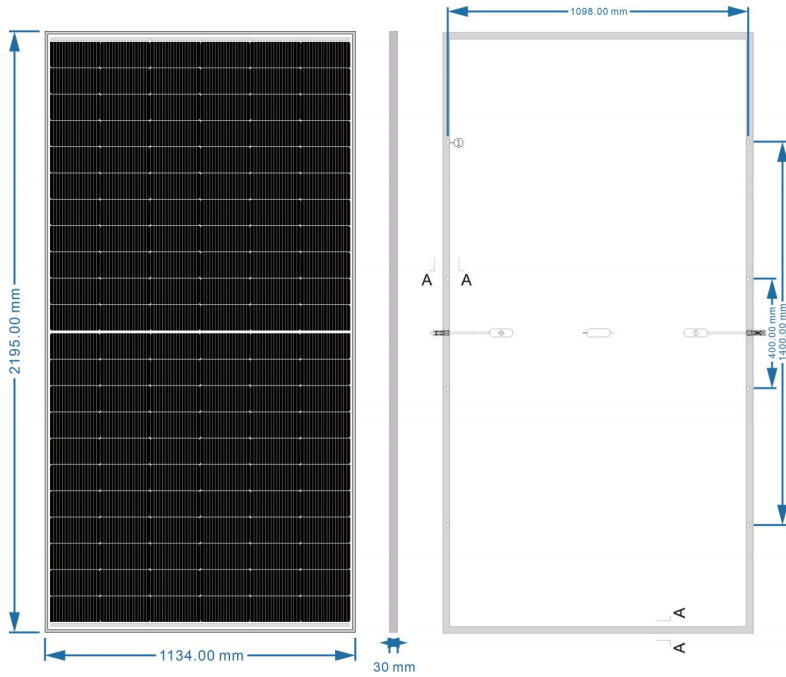
12-year Warranty for Materials and Processing

30-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:±13%

Module Type	AOX-132M10RHC550W		AOX-132M10RHC555W		AOX-132M10RHC560W		AOX-132M10RHC565W		AOX-132M10RHC570W		AOX-132M10RHC575W		AOX-132M10RHC580W	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	550W	416W	555W	420W	560W	424W	565W	428W	570W	432W	575W	436W	580W	440W
Voltage at Maximum Power(Vmp/V)	40.50	37.90	40.70	38.10	40.90	38.30	41.10	38.50	41.30	38.70	41.50	38.90	41.70	39.10
Current at Maximum Power(Imp/A)	13.60	10.98	13.64	11.02	13.70	11.08	13.75	11.12	13.81	11.17	13.86	11.21	13.91	11.26
Open Circuit Voltage(Voc/V)	47.00	44.60	47.20	44.80	47.40	45.00	47.60	45.20	47.80	45.40	48.00	45.60	48.20	45.80
Short Circuit Current(Isc/A)	14.36	11.59	14.40	11.64	14.46	11.70	14.52	11.74	14.58	11.78	14.64	11.84	14.70	11.88
Module Efficiency(%)	22.10%		22.30%		22.50%		22.70%		22.90%		23.10%		23.30%	

Mechanical Parameters

Cell Type	N-Type TopCon Half-cut Cell
No. of Cells	132
Front Cover	3.2 mm glass, high transmission, AR coated, tempered
Encapsulation	EVA
Back Cover	White backsheet
Junction Box	IP68 rated, 3 bypass diodes
Frame	30 mm anodized aluminium alloy
Cable	1 x 4 mm ² , 350 mm length or customized
Connectors	MC 4/ MC 4 compatible
Weight	26kg
Dimension	2195*1134*30mm
Packaging	740pcs/40HQ Container

Mechanical Loading

Snow Load	5400 Pa or 550 kg/m ²
Wind Load	2400 Pa or 244 kg/m ²
Hail Resistance	Max. Ø 25 mm at 23 m/s

Operating Parameters

Operational Temperature	-40~+85°C
Power Output Tolerance	0~5W
Voc and Isc Tolerance	±3%
Maximum System Voltage	1500VDC(IEC)
Maximum Series Fuse Rating	25A
Nominal Operational Cell Temperature	43±2°C
Protection Class	Class II
Fire Rating	UL type 1 or 2 IEC Class C

Temperature Ratings(STC)

Temperature Coefficient of Isc	0.04%/°C
Temperature Coefficient of Voc	-0.24%/°C
Temperature Coefficient of Pmax	-0.30%/°C

High-tech enterprises in China



Ocean Solar

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