



ocean solar

Dual Glass Series

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

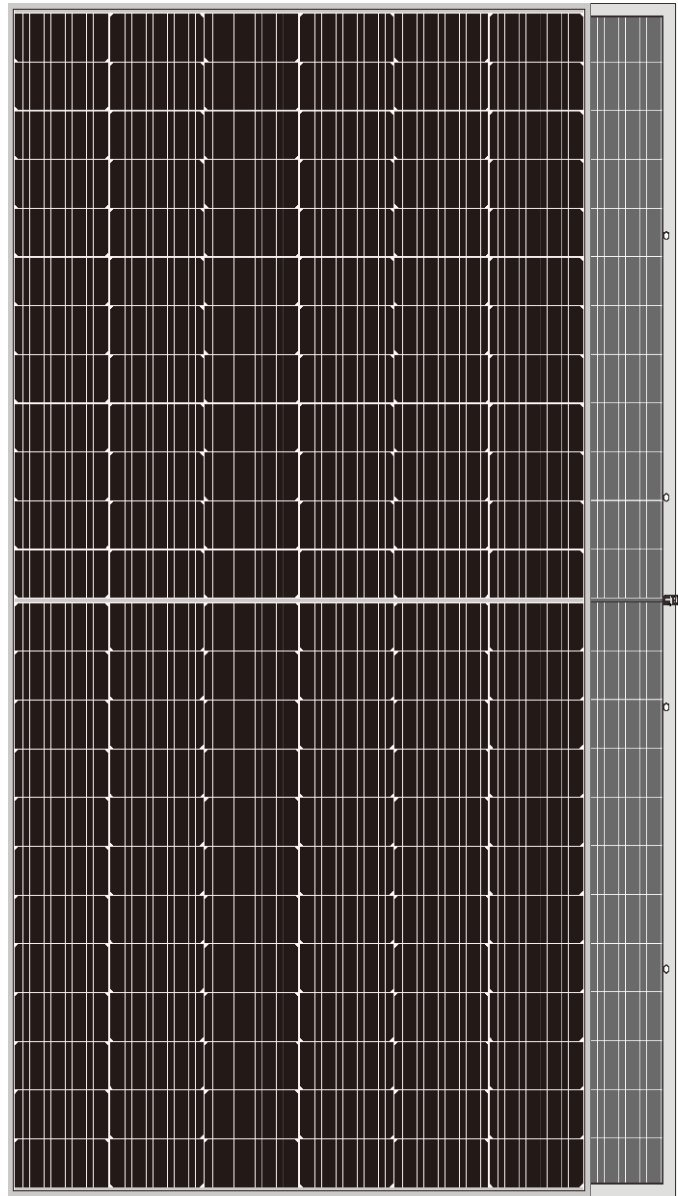
22.8% module efficiency, dense interconnect.
SMBB for trapping, lower resistance, better collection.

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.



N-TopCon Technology

Enhance efficiency, reduce micro-cracks.

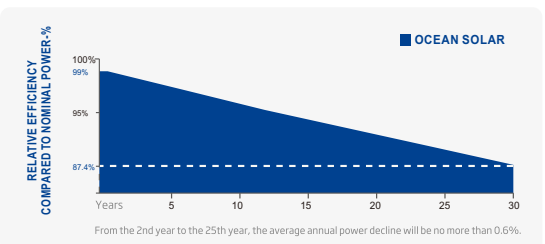


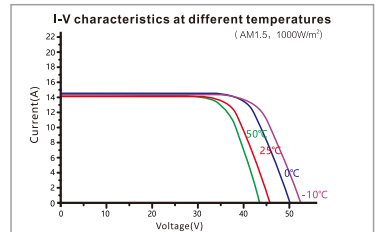
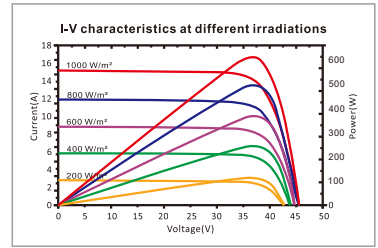
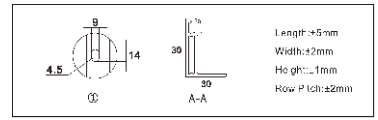
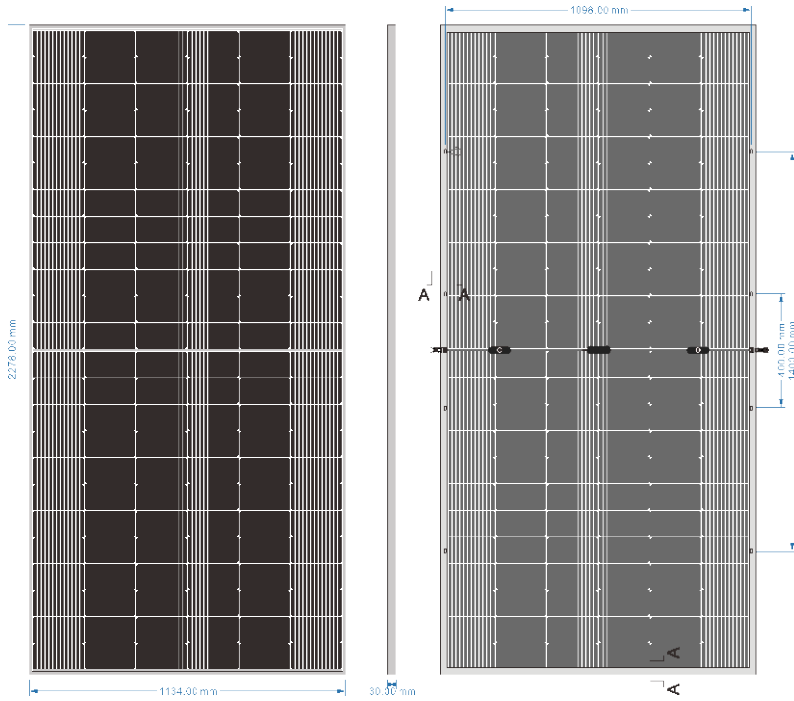
PRODUCT Certifications



PRODUCT Warranty

12-year Warranty for Materials and Processing
30-year Warranty for Extra Linear Power Output





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-72M10HC550W		AOX-72M10HC560W		AOX-72M10HC570W		AOX-72M10HC580W		AOX-72M10HC590W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	550W	414W	560W	421W	570W	428W	580W	435W	590W	442W
Voltage at Maximum Power(Vmp/V)	42.00	39.60	42.40	40.00	42.80	40.40	43.20	40.80	43.60	41.20
Current at Maximum Power(Impp/A)	13.10	10.45	13.21	10.53	13.32	10.59	13.43	10.66	13.54	10.73
Open Circuit Voltage(Voc/V)	51.00	48.60	51.40	49.00	51.80	49.40	52.20	49.80	52.60	45.20
Short Circuit Current(Isc/A)	13.88	11.08	14.00	11.16	14.12	11.23	14.23	11.30	14.35	11.37
Module Efficiency(%)	21.30%		21.70%		22.10%		22.50%		22.80%	

Mechanical Parameters

Cell Orientation	6*24(144)solar half cells
Junction Box	IP 68 3 diodes
Output Cable	4.0mm² solar cable(IEC) (+)≥350mm(-)≥350mm or customized
Front Glass	2.0mm, Anti-reflection Coating
Back Glass	2.0mm, Heat Strengthened Glass
Frame	30mm Anodized Aluminium Alloy
Weight	31.5kg(+/-0.5kg)
Dimension	2278*1134*30mm
Packaging	36pcs/pallet, 720pcs/40HQ Container

Tip: The number of double-glass modules placed flatly cannot exceed 15 pieces.

Mechanical Loading

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

Bifacial Output-Rearside Power Gain

	Maximum Power(Pmax)	278W	588W	599W	609W	620W
5% Module Efficiency(STC(%))	22.37%	22.79%	23.21%	23.63%	23.94%	
	Maximum Power(Pmax)	605W	616W	627W	638W	649W
10% Module Efficiency(STC(%))	23.43%	23.87%	24.31%	24.75%	25.08%	

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

Product Warranty

Warranty for Materials and Processing	12 Years
Warranty for Extra Linear Power Output	30 Years

High-tech enterprises in China



Ocean Solar
E-mail: info@oceansolar.cn
Web: www.oceansolar.cn

©2024 Ocean Solar All rights reserved.
Specifications included in this datasheet are subject to change without notice.

