



# ocean solar

## Dual Glass Series

# AOX-72M10RPHC 620W-650W

### 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 650W

24.0% module efficiency, dense interconnect.

SMBB for trapping, lower resistance, better collection.

### RELIABLE

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

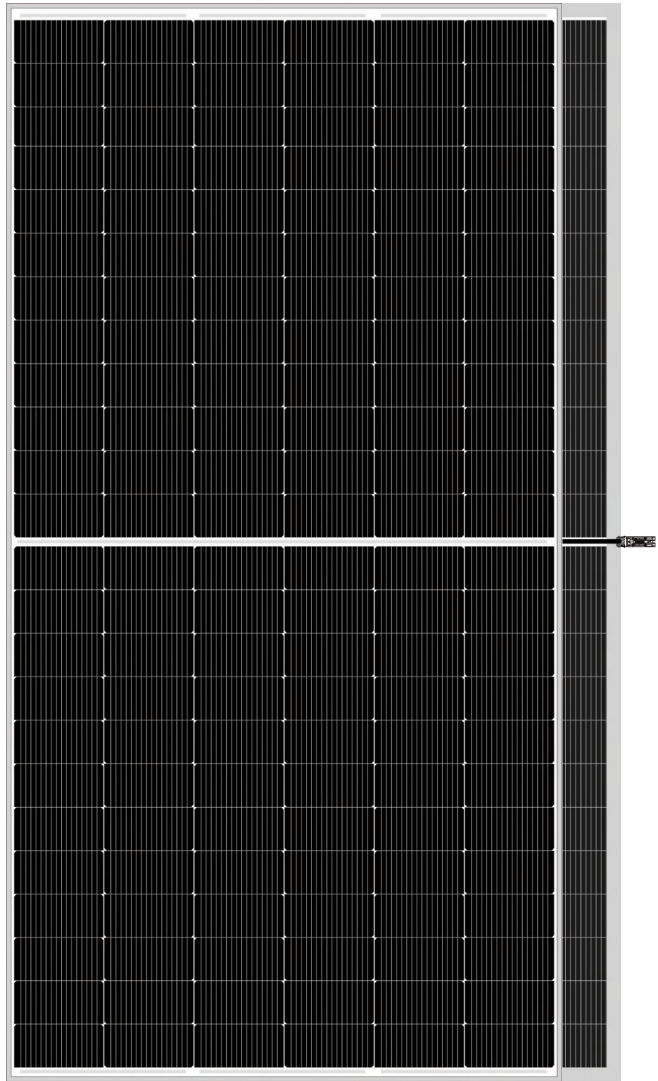
Mechanical performance up to 5400 Pa positive, 2400 Pa negative.

### 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



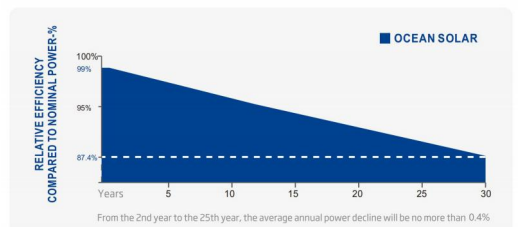
## PRODUCT Warranty

15-year Warranty for Materials and Processing

30-year Warranty for Extra Linear Power Output

## N-TopCon Technology

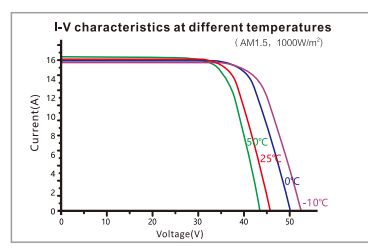
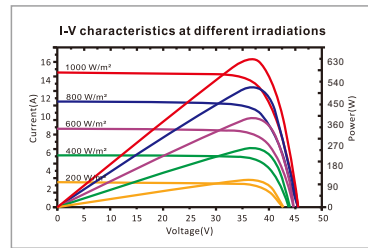
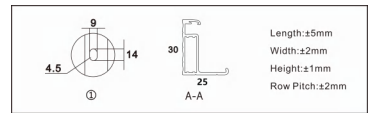
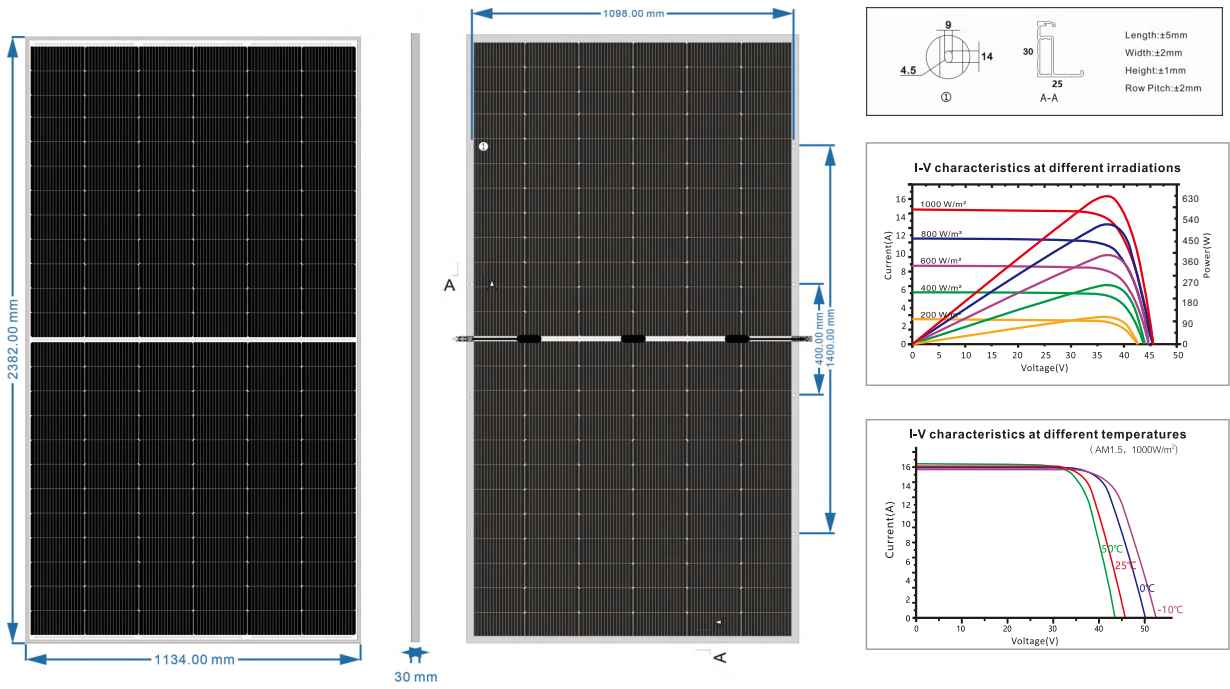
Enhance efficiency, reduce micro-cracks.



WORLD SHINES BECAUSE OF YOU



High-tech enterprises in China



**Electrical Characteristics** STC:AM1.5 1000W/m<sup>2</sup> 25°C NOCT:AM1.5 800W/m<sup>2</sup> 20°C 1m/s Test uncertainty for Pmax:±3%

Module Type	AOX-72M10RPHC620W		AOX-72M10RPHC625W		AOX-72M10RPHC630W		AOX-72M10RPHC635W		AOX-72M10RPHC640W		AOX-72M10RPHC645W		AOX-72M10RPHC650W	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	620W	468W	625W	472W	630W	476W	635W	480W	640W	484W	645W	488W	650W	495W
Voltage at Maximum Power(Vmp/V)	43.40	40.60	43.60	40.80	43.80	41.00	44.00	41.20	44.20	41.40	44.40	41.60	44.60	41.80
Current at Maximum Power(Imp/A)	14.29	11.53	14.34	11.57	14.39	11.61	14.44	11.65	14.48	11.69	14.53	11.73	14.58	11.77
Open Circuit Voltage(Voc/V)	52.00	49.40	52.20	49.40	52.40	49.60	52.60	49.80	52.80	50.00	53.00	50.20	53.20	50.40
Short Circuit Current(Isc/A)	15.09	12.22	15.14	12.22	15.19	12.26	15.25	12.30	15.29	12.34	15.34	12.38	15.39	12.42
Module Efficiency(%)	23.00%		23.10%		23.30%		23.50%		23.70%		23.90%		24.00%	

**Mechanical Parameters**

Cell Type	N-Type TopCon Half-cut Cell
No. of Cells	144
Front Cover	2.0 mm glass, high transmission, AR coated, tempered
Encapsulation	EVA
Back Cover	2.0mm HeatStrengthenedGlass
Junction Box	IP68 rated, 3 bypass diodes
Frame	30 mm anodized aluminium alloy
Cable	1 x 4 mm <sup>2</sup> , 300 mm length or customized
Connectors	MC 4/ MC 4 compatible
Weight	32.5kg
Dimension	2382*1134*30mm
Packaging	740pcs/40HQ Container

**Mechanical Loading**

Snow Load	5400 Pa or 550 kg/m <sup>2</sup>
Wind Load	2400 Pa or 244 kg/m <sup>2</sup>
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

**Bifacial Output-Rearside Power Gain**

5%	Maximum Power (Pmax)	651W	656W	662W	667W	672W	677W	683W
	Module Efficiency STC(%)	24.2%	24.3%	24.5%	24.7%	24.9%	25.1%	25.3%
10%	Maximum Power (Pmax)	682W	688W	693W	699W	705W	710W	715W
	Module Efficiency STC(%)	25.3%	25.4%	25.6%	25.9%	26.1%	26.3%	26.5%

High-tech enterprises in China



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