



# ocean solar

## AOX-132G12HC

# 690W-730W

### 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 730 W

23.5% 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

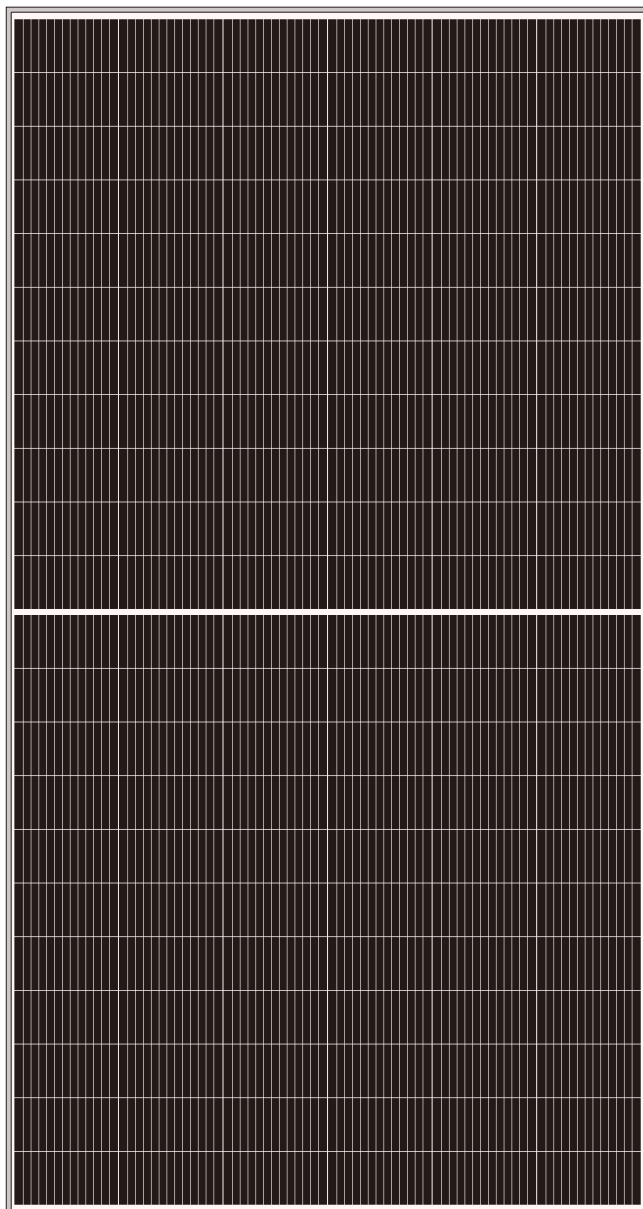
Excellent IAM, low irradiation validated by 3rd party certs.  
Lower degradation: 1% first year, 0.4% annually.  
Lower temperature coefficient (-0.30%).  
Up to 30% extra power gain from back side depending on albedo.

## PRODUCT Certifications



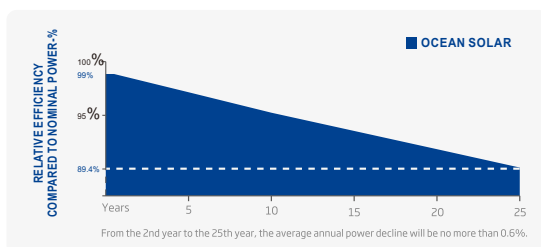
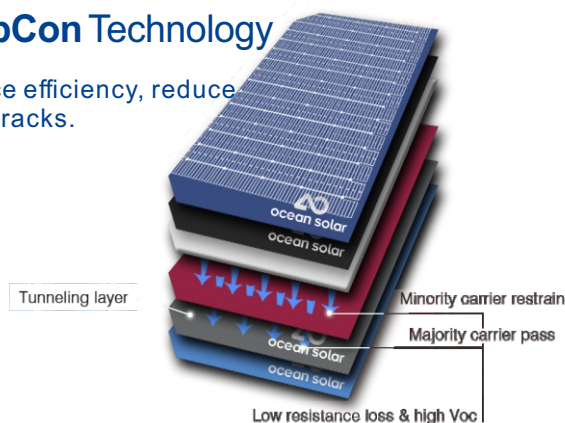
## PRODUCT Warranty

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



## N-TopCon Technology

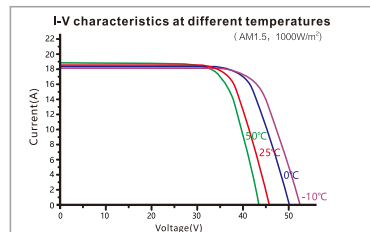
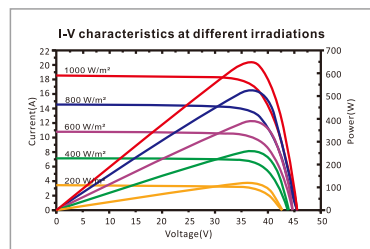
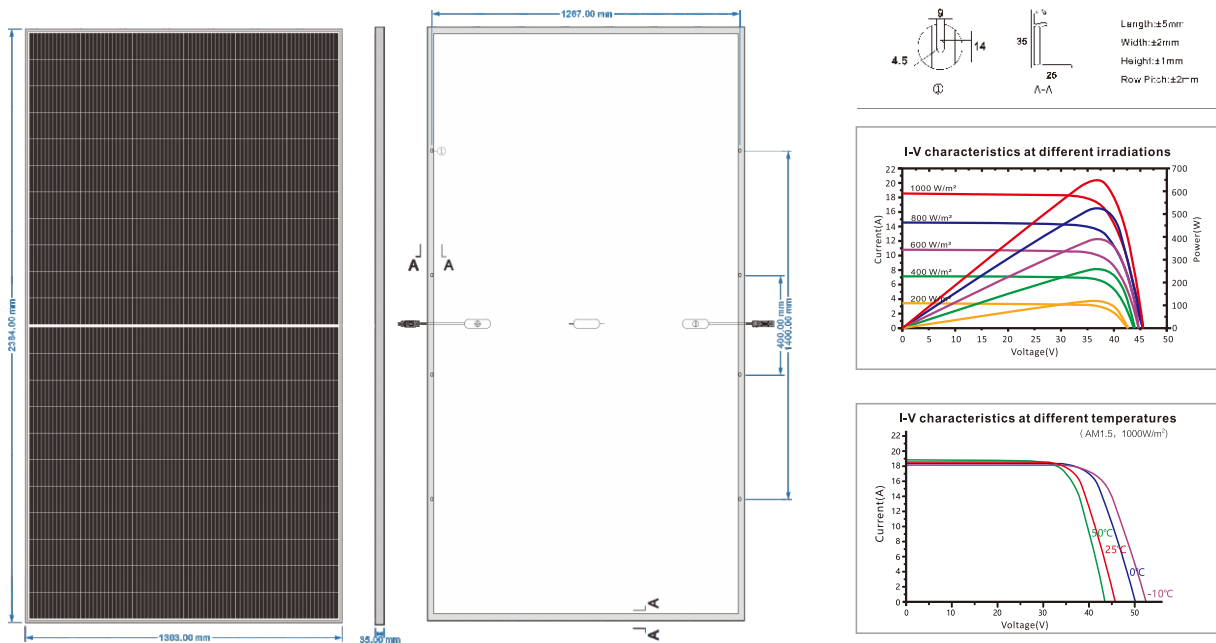
Enhance efficiency, reduce micro-cracks.



WORLD SHINES BECAUSE OF YOU



High-tech enterprises in China



## Electrical Characteristics

STC:AM1.5 1000W/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-132G12HC690W		AOX-132G12HC700W		AOX-132G12HC710W		AOX-132G12HC720W		AOX-132G12HC730W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	690W	526W	700W	534W	710W	543W	720W	552W	730W	560W
Voltage at Maximum Power(Vmp/V)	40.10	37.70	40.50	38.00	40.90	38.50	41.30	38.80	41.70	39.30
Current at Maximum Power(Imp/A)	17.21	13.95	17.29	14.05	17.36	14.10	17.44	14.23	17.51	14.25
Open Circuit Voltage(Voc/V)	47.90	45.40	48.60	46.10	49.00	46.50	49.40	46.90	49.80	47.30
Short Circuit Current(Isc/A)	18.25	14.71	18.32	14.76	18.40	14.83	18.48	14.90	18.56	14.97
Module Efficiency(%)	22.20%		22.50%		22.90%		23.20%		23.50%	

## Mechanical Parameters

Cell Orientation	6*22(132)solar half cells
Junction Box	IP 68 3 diodes
Output Cable	4.0mm <sup>2</sup> solar cable(IEC) (+)≥350mm(-)≥350mm or customized
Glass	3.2 mm, Anti-reflection Coating, High Transmission, Low Iron, Fully Strengthened Glass
Frame	35mm Anodized Aluminium Alloy
Weight	31kg(+/-0.5kg)
Dimension	2384*1304*35mm
Packaging	31pcs/pallet, 558pcs/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.

  
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