



ocean solar

AOX-132G12RHC 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

24.1% module efficiency, dense interconnect.

SMBB for trapping, lower resistance, better collection.

RELIABLE

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

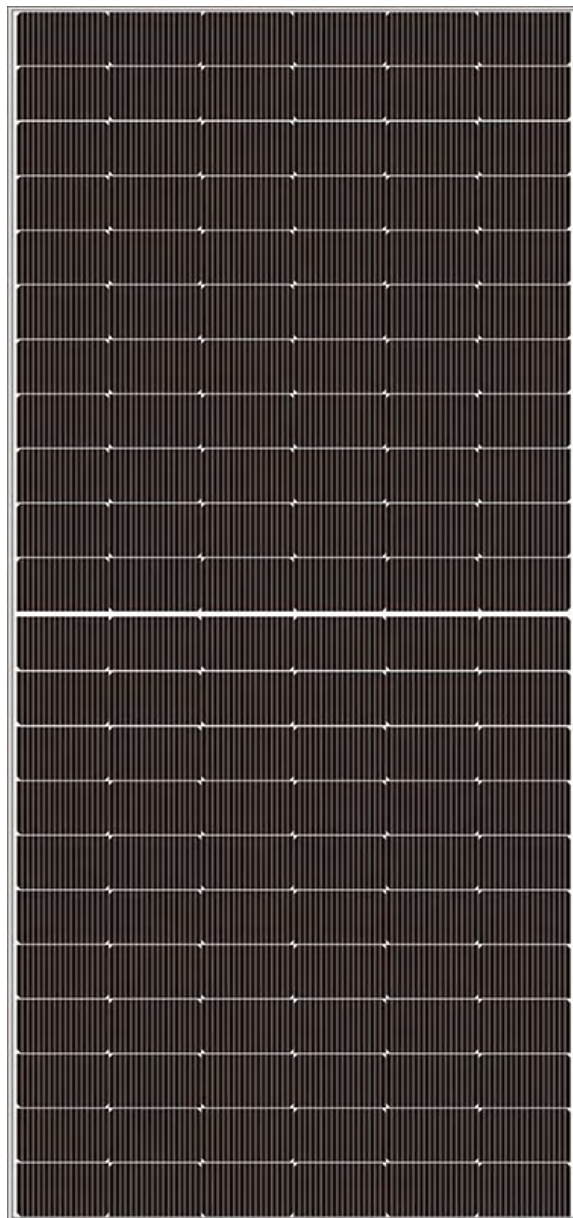
Mechanical performance up to 5400 Pa positive, 2400 Pa negative.

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



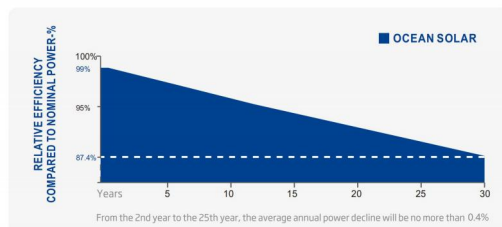
PRODUCT Warranty

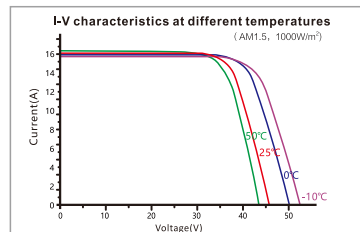
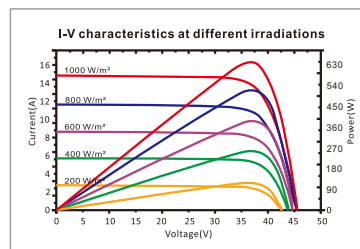
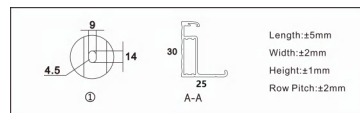
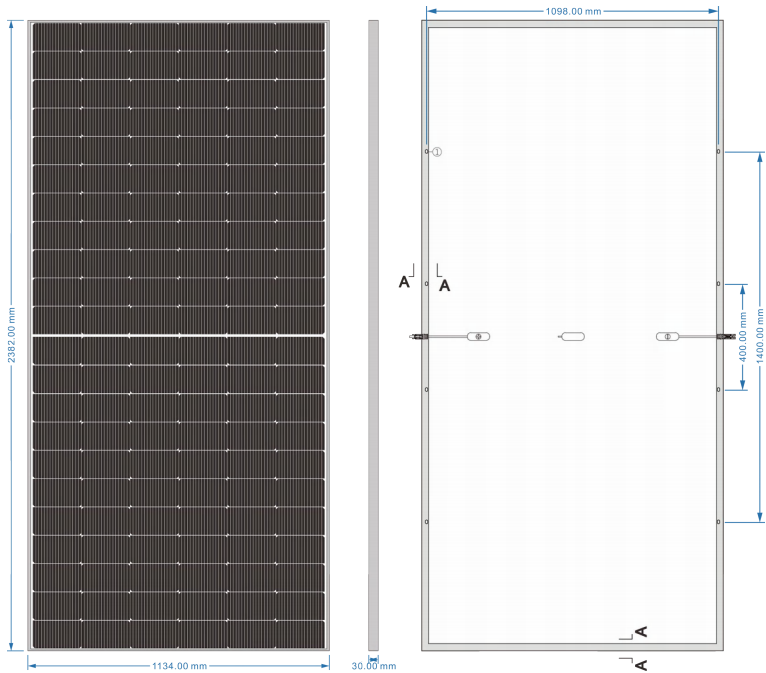
12-year Warranty for Materials and Processing

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:±3%

Module Type	AOX-132G12RHC620W		AOX-132G12RHC625W		AOX-132G12RHC630W		AOX-132G12RHC635W		AOX-132G12RHC640W		AOX-132G12RHC645W		AOX-132G12RHC650W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	620W	471W	625W	475W	630W	479W	635W	483W	640W	487W	645W	491W	650W	495W
Voltage at Maximum Power(Vmp/V)	41.10	38.60	41.30	38.80	41.50	39.00	41.70	39.20	41.90	39.40	42.10	39.60	42.30	39.80
Current at Maximum Power(Imp/A)	15.09	12.20	15.13	12.24	15.18	12.28	15.23	12.32	15.28	12.36	15.33	12.40	15.37	12.44
Open Circuit Voltage(Voc/V)	49.20	46.60	49.40	46.80	49.60	47.00	49.80	47.20	50.00	47.40	50.20	47.60	50.40	47.80
Short Circuit Current(Isc/A)	15.94	12.89	15.98	12.93	16.03	12.97	16.08	13.00	16.14	13.05	16.19	13.09	16.23	13.12
Module Efficiency(%)	22.90%		23.00%		23.30%		23.50%		23.70%		23.90%		24.10%	

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 mm², 350 mm length or customized
Connectors	MC 4/ MC 4 compatible
Weight	29kg
Dimension	2382*1134*30mm
Packaging	740pcs/40HQ Container

Mechanical Loading

Snow Load	5400 Pa or 550 kg/m²
Wind Load	2400 Pa or 244 kg/m²
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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