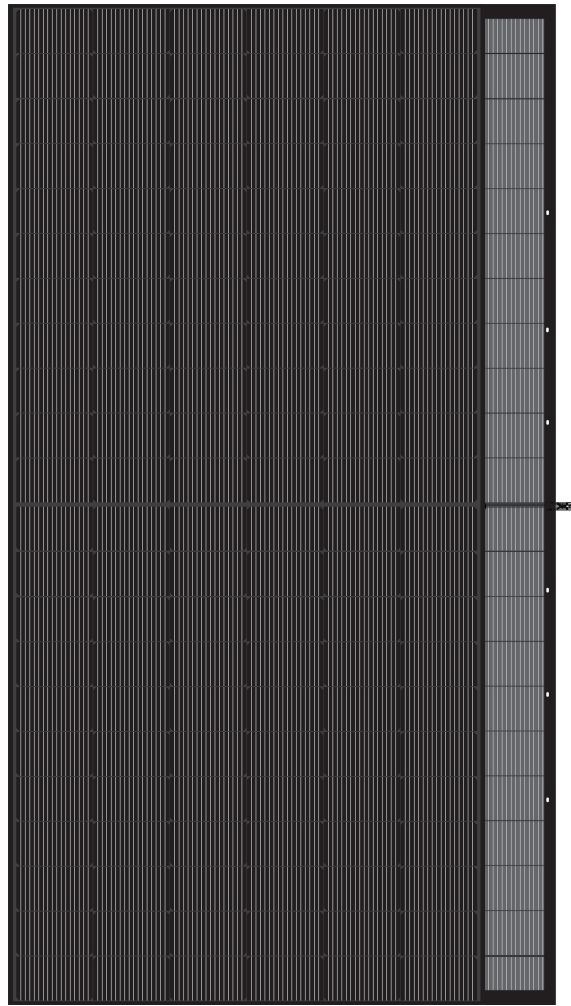


MAX650W

AOX-132G12RHC620-650W

N-TopCon Technology

Dual Glass FullBlack PV Module



TopCon Technology

SMBB technology to Higher cell efficiency and higher module power



Suitable for Utility Project

Lower BOS cost, lower LCO



Anti-PID Guarantee

Minimize PID-induced degradation probability via battery production optimization and material control.



Reliable Load-Bearing

Performance
Maximum front-side test of 5400Pa
Maximum back-side test of 2400Pa



Double-Glass Bifacial PV

Maximum bifaciality up to 85±5%
Capture more sunlight, achieve higher energy yield



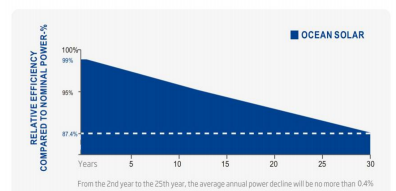
Excellent Low-Light Power Generation Performance

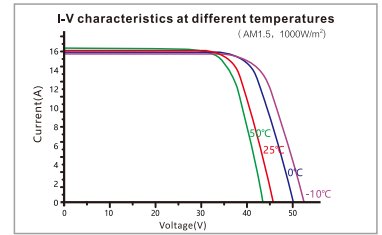
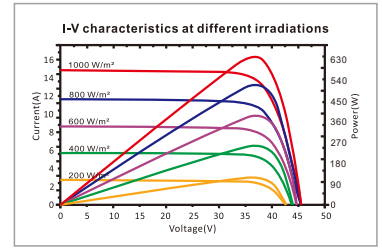
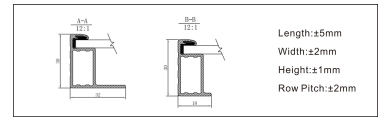
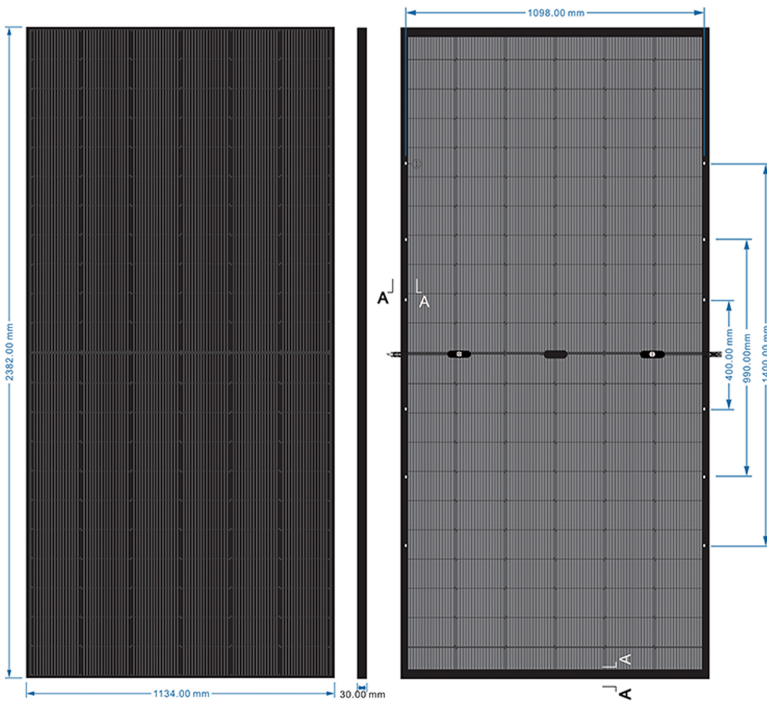
Optimized solar cells structure ensures excellent PV module performance in low-light environments.

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-132G12RHC620W		AOX-132G12RHC625W		AOX-132G12RHC630W		AOX-132G12RHC635W		AOX-132G12RHC640W		AOX-132G12RHC645W		AOX-132G12RHC650W	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	620W	471.30W	625W	475.20W	630W	478.90W	635W	482.70W	640W	486.50W	645W	490.20W	650W	494W
Voltage at Maximum Power(Vmp/V)	41.00	38.04	41.20	38.50	41.40	38.70	41.60	38.90	41.80	39.10	42.00	39.30	42.20	39.50
Current at Maximum Power(Imp/A)	15.13	12.29	15.17	12.33	15.22	12.37	15.27	12.41	15.32	12.44	15.36	12.48	15.41	12.52
Open Circuit Voltage(Voc/V)	48.90	46.30	49.10	46.50	49.30	46.70	49.50	46.90	49.70	46.10	49.90	46.30	50.10	47.40
Short Circuit Current(Isc/A)	16.05	12.95	16.09	12.98	16.14	13.02	16.19	13.06	16.24	13.10	16.29	13.14	16.34	13.18
Module Efficiency(%)	22.95%		23.14%		23.32%		23.51%		23.69%		23.88%		24.06%	

Mechanical Parameters

Cell Type	N-Type TopCon Half-cut Cell
No. of Cells	132
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 mm², 350 mm length or customized
Connectors	MC 4/ MC 4 compatible
Weight	33.0kg
Dimension	2382*1134*30mm
Packaging	740pcs/40HQ Container

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

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	30A
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	+0.045%/°C
Temperature Coefficient of Voc	-0.230%/°C
Temperature Coefficient of Pmax	-0.280%/°C

PRODUCT Certifications



High-tech enterprises in China



Ocean Solar

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Web:www.oceansolarcn.com

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