

## Dual Glass Series

### 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%).

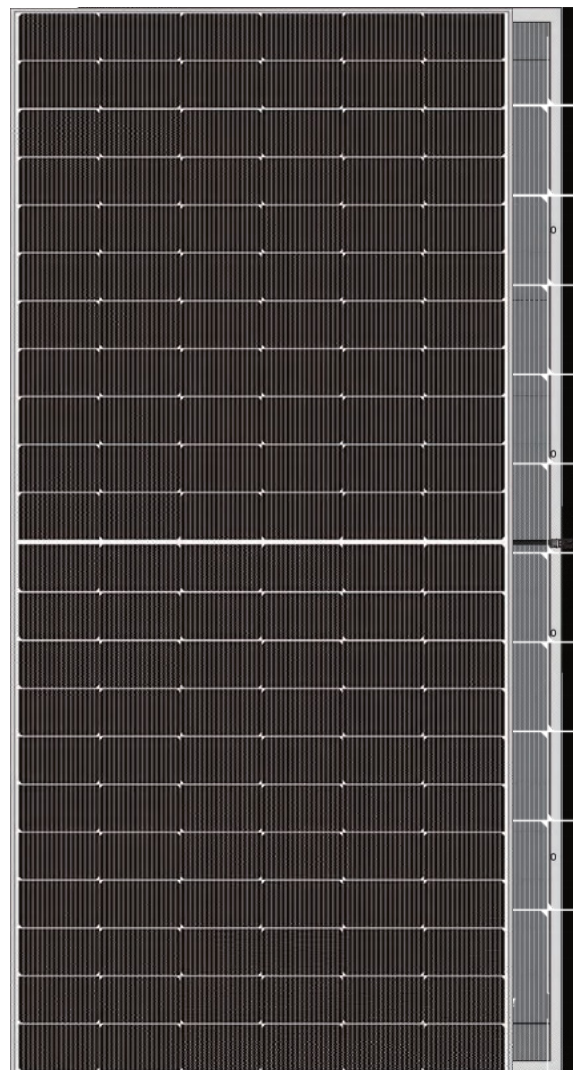
## PRODUCT Certifications



## PRODUCT Warranty

12-year Warranty for Materials and Processing

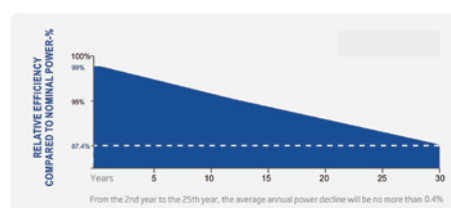
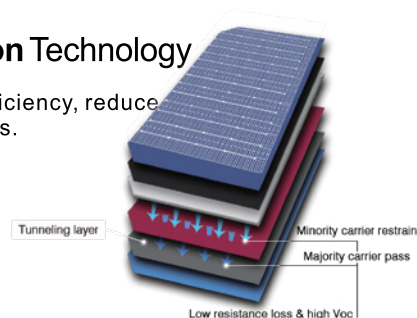
30-year Warranty for Extra Linear Power Output



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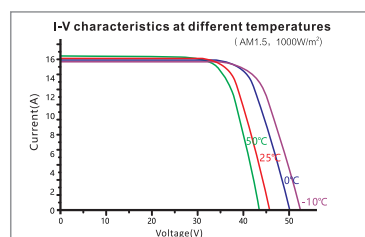
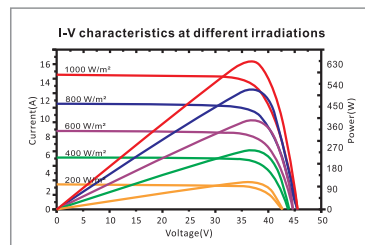
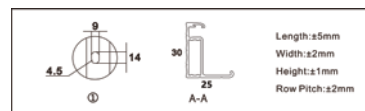
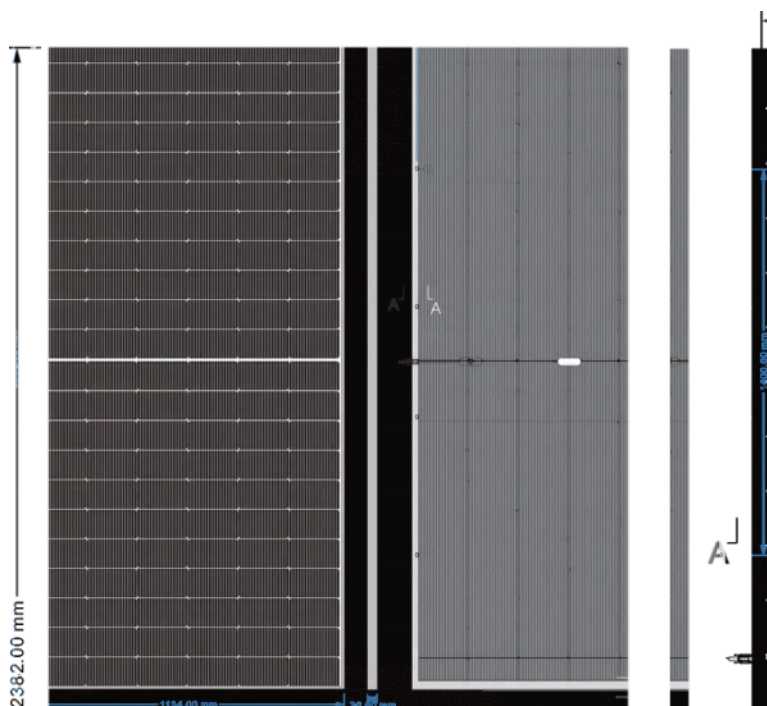
## N-TopCon Technology

Enhance efficiency, reduce micro-cracks.



## G12R/ Bifacial

## AOX-132G12RHC 620W-650W



### 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 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	2.0 mm glass, high transmission, AR coated, tempered
Encapsulation	EVA
Back Cover	2.0mm, Heat Strengthened Glass
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	32.5kg
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	0.04%/°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(%)	24.0%	24.2%	24.5%	24.7%	24.9%	25.1%	25.3%
10%	Maximum Power (Pmax)	682W	688W	693W	699W	705W	710W	715W
	Module Efficiency STC(%)	25.2%	25.3%	25.6%	25.9%	26.1%	26.3%	26.5%