

Full Black Transparent Backsheet Series

AOX-144M10RHC 430W-460W

S 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 460W

23.0% 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.

(Land 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



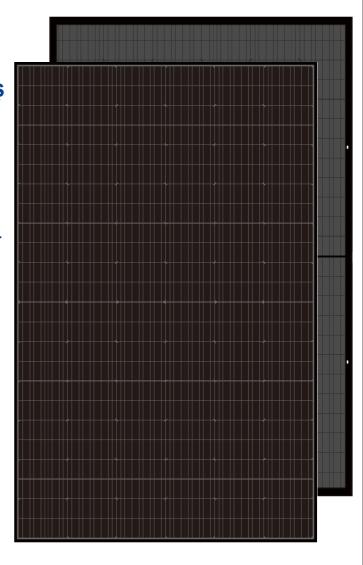




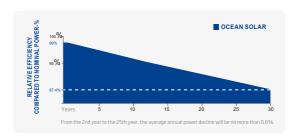


PRODUCT Warranty

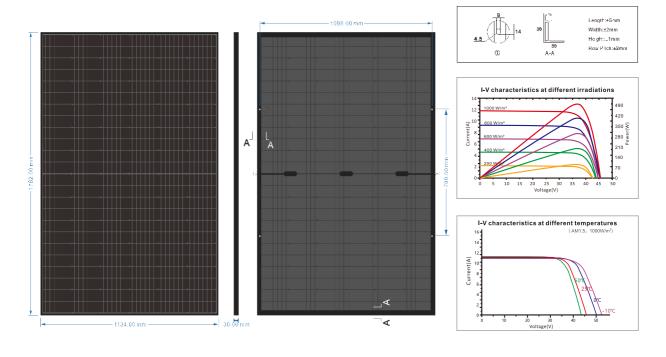
12-year Warranty for Materials and Processing 30-year Warranty for Extra Linear Power Output











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-144M10RHC430W	AOX-144M10RHC435W	AOX-144M10RHC440W	AOX-144M10RHC445W	AOX-144M10RHC450V	/ AOX-144M10RHC455W	AOX-144M10RHC460\
Testing Condition	STC NOCT	STC NOCT					
Maximum Power(Pmax/W)	430W 327W	435W 330W	440W 334W	445W 337W	450W 340W	455W 344W	460W 347W
Voltage at Maximum Power(Vmp/	V) 42.20 39.40	42.40 39.60	42.60 39.80	42.80 40.00	43.00 40.20	43.20 40.40	43.40 40.60
Current at Maximum Power(Imp/A) 10.19 8.30	10.26 8.33	10.33 8.39	10.40 8.43	10.47 8.46	10.54 8.52	10.60 8.55
Open Circuit Voltage(Voc/V)	50.20 47.40	50.40 47.60	50.60 47.80	50.80 48.00	51.00 48.20	51.20 48.40	51.40 48.60
Short Circuit Current(Isc/A)	10.76 8.76	10.83 8.80	10.91 8.86	10.98 8.90	11.06 8.93	11.12 8.99	11.19 9.03
Module Efficiency(%)	21.50%	21.80%	22.00%	22.30%	22.50%	22.80%	23.00%

Mechanical Parameters

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6*24(144)solar half cells
IP 68 3 diodes
4.0mm² solar cable(IEC) (+)≥350mm(-)≥350mm or customized
3.2 mm, Anti-reflection Coating, High Transmission Low Iron, Fully Strengthened Glass
30mm Anodized Aluminium Alloy
21kg(+/-0.5kg)
1762*1134*30mm
36pcs/pallet,936pcs/40HQ Container

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

Mechanical Loading

Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

Bifacial Output-Rearside Power Gain

5%	Maximum Power (Pmax) Module Efficiency STC (%)	452W 22.58%	457W 22.89%	462W 23.10%	467W 23.42%	473W 23.63%	478W 23.94%	483W 24.15%
10%	Maximum Power (Pmax) Module Efficiency STC (%)	473W	479W	484W	490W	495W	501W	506W

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

Product Warranty

Warranty for Materials and Processing	12 Years
Warranty for Extra Linear Power Output	30 Years







Ocean Solar

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