

M10

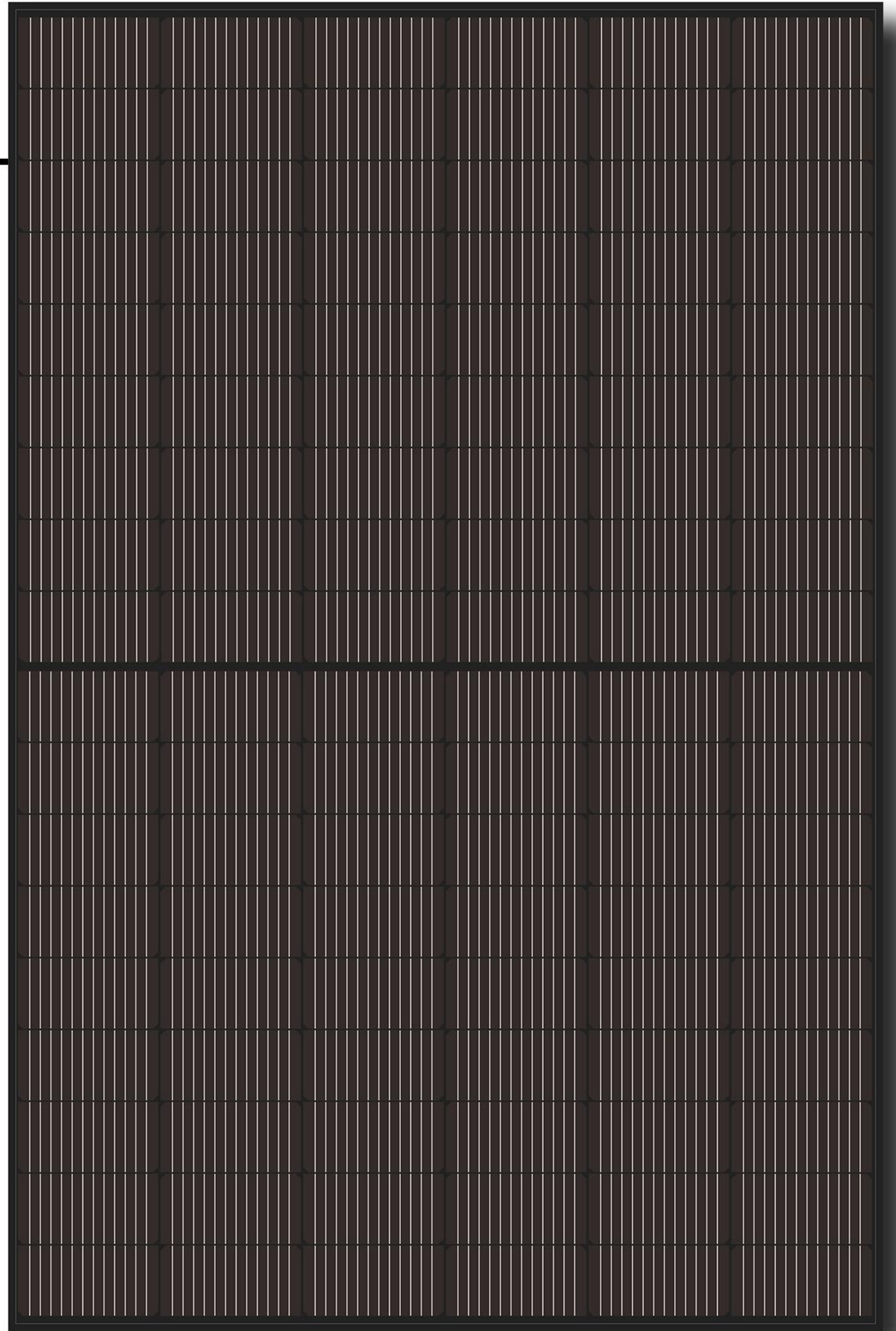
N-TopCon

All Black

AOX 54M10HC

420W-435W

- Based on M10-182mm solar cells.
- Higher module quality ensures long-term reliability
- MBB Technology, better light trapping and current collection to improve module power output and reliability.
- Excellent Anti-PID performance guarantee via optimized mass production process and materials control



WORLD SHINES BECAUSE OF YOU

N-TopCon Technology Innovation

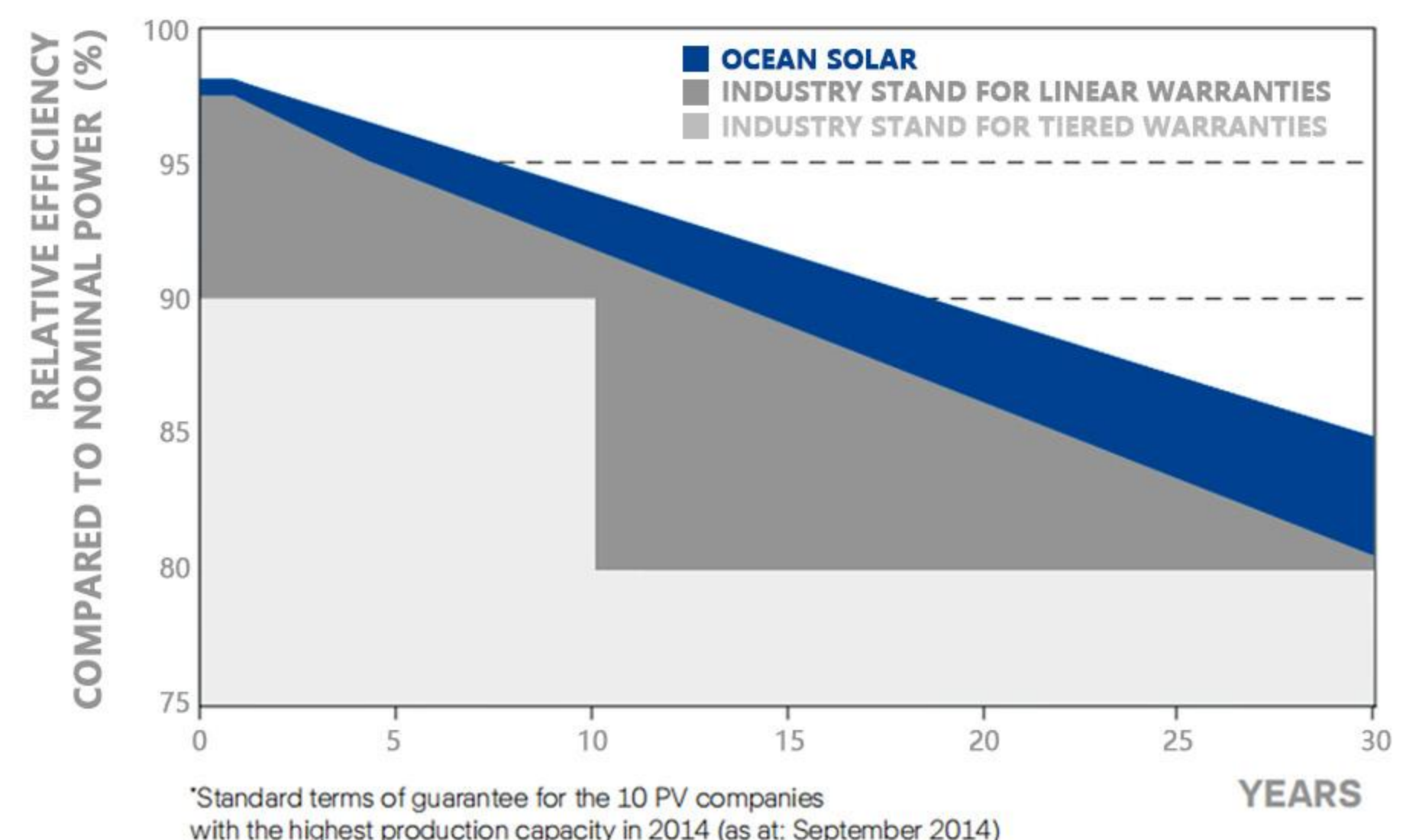
Selective Passivation Contact

The key technology determines the maximum efficiency



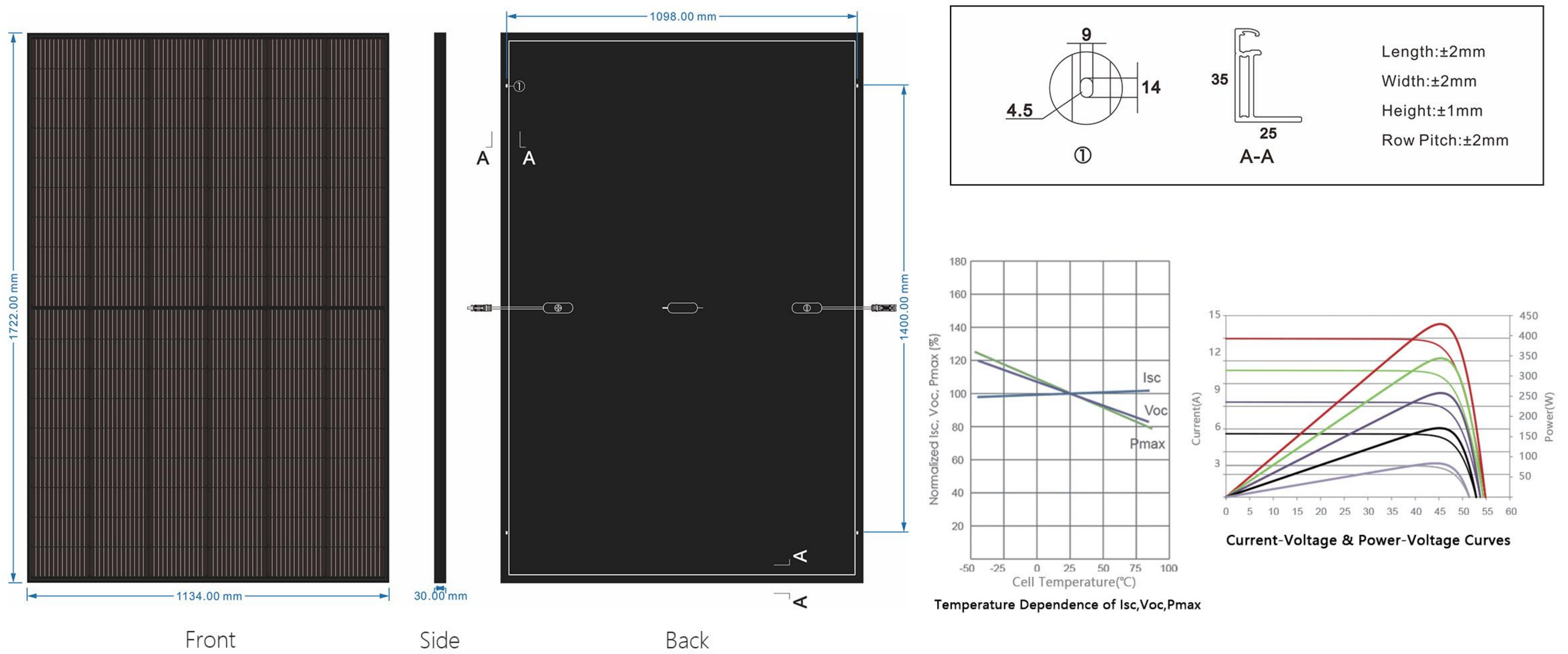
PRODUCT Warranty

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



PRODUCT Certifications





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-54M10HC420W		AOX-54M10HC425W		AOX-54M10HC430W		AOX-54M10HC435W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	420Wp	316Wp	425Wp	320Wp	430Wp	323Wp	435Wp	327Wp
Voltage at Maximum Power (Vmp/V)	31.51V	29.34V	31.70V	29.50V	31.88V	29.63V	32.05V	29.73V
Current at Maximum Power (Imp/A)	13.33A	10.76A	13.41A	10.83A	13.49A	10.91A	13.57A	10.99A
Open Circuit Voltage (Voc/V)	38.11V	36.20V	38.30V	36.38V	38.49V	36.56V	38.66V	36.74V
Short Circuit Current (Isc/A)	14.07A	11.36A	14.15A	11.42A	14.23A	11.49A	14.31A	11.56A
Module Efficiency(%)	21.50%		21.80%		22.00%		22.30%	

Mechanical Parameters

Cell Orientation	6*18 (108) solar half cells
Junction Box	IP 68 3 diodes
Output Cable	4.0mm ² solar cable(IEC) (+)≥350mm (-)≥350mm or customized
Glass	3.2mm, High Transmission, AR Coated Heat Strengthened Glass
Frame	35mm Anodized Aluminium Alloy
Weight	20.5kg
Dimension	1722*1134*30mm
Packaging	31pcs/pallets,936pcs/ 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 Year
Warranty for Extra Linear Power Output	30 Year

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 Operating 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 Certifications



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Specifications included in this datasheet are subject to change without notice.

