



ocean solar

Transparent backsheet Series

AOX-72M10HC

585W-615W

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 615W

23.8% module efficiency, dense interconnect.

SMBB for trapping, lower resistance, better collection.

RELIABLE

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

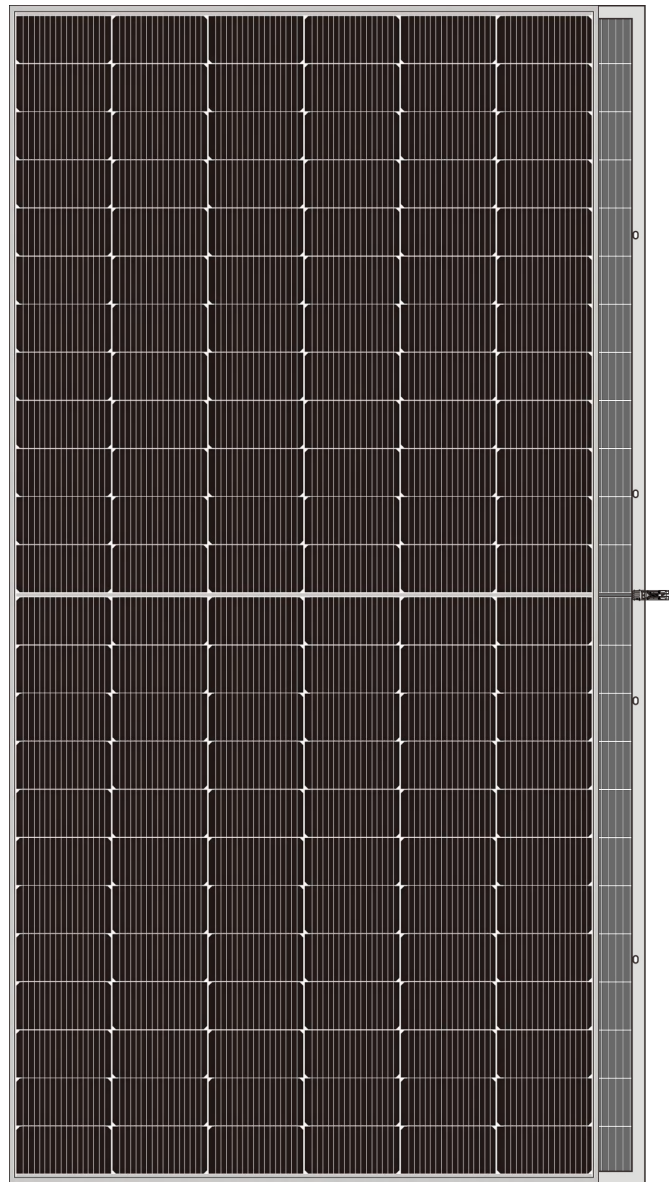
Mechanical performance up to 5400 Pa positive, 2400 Pa negative.

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



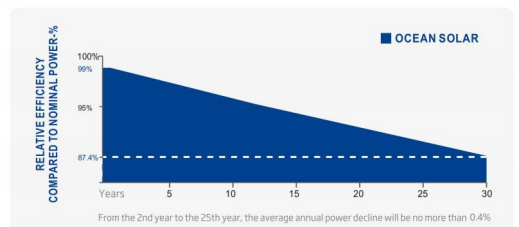
PRODUCT Warranty

12-year Warranty for Materials and Processing

30-year Warranty for Extra Linear Power Output

N-TopCon Technology

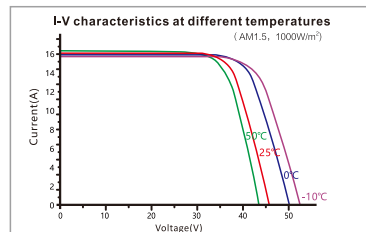
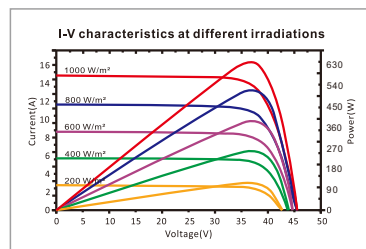
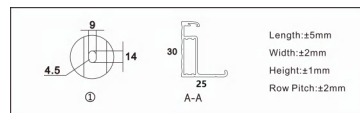
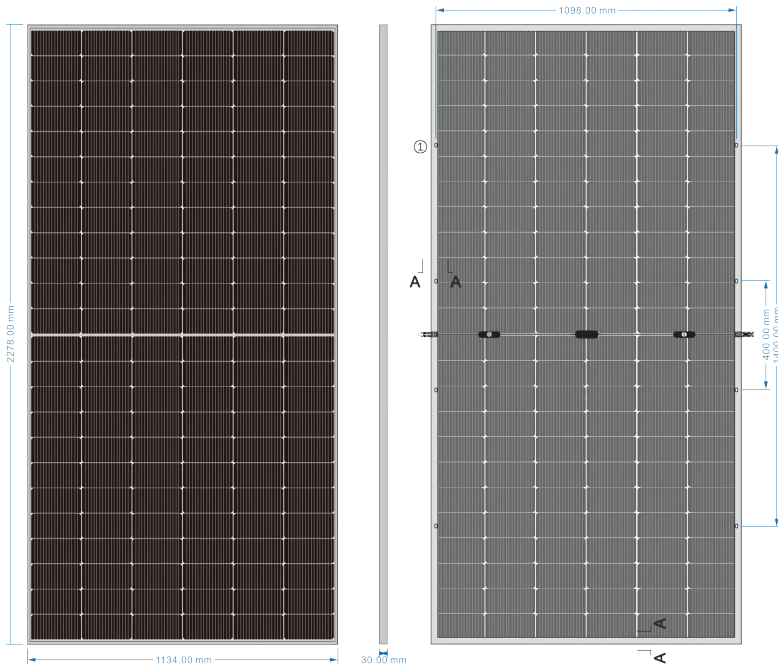
Enhance efficiency, reduce micro-cracks.



WORLD SHINES BECAUSE OF YOU



High-tech enterprises in China



Electrical Characteristics STC:AM1.5 1000W/m² 25°C NOCT:AM1.5 800W/m² 20°C 1m/s Test uncertainty for Pmax:±13%

| Module Type | AOX-72M10HC585W | | AOX-72M10HC590W | | AOX-72M10HC595W | | AOX-72M10HC600W | | AOX-72M10HC605W | | AOX-72M10HC610W | | AOX-72M10HC615W | |
|---------------------------------|-----------------|-------|-----------------|-------|-----------------|-------|-----------------|-------|-----------------|-------|-----------------|-------|-----------------|-------|
| Testing Condition | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Maximum Power(Pmax/W) | 585W | 442W | 590W | 446W | 595W | 450W | 600W | 454W | 605W | 458W | 610W | 462W | 615W | 466W |
| Voltage at Maximum Power(Vmp/V) | 43.70 | 40.90 | 43.90 | 41.10 | 44.10 | 41.30 | 44.30 | 41.50 | 44.50 | 41.70 | 44.70 | 41.90 | 44.90 | 42.10 |
| Current at Maximum Power(Imp/A) | 13.37 | 10.81 | 13.44 | 10.86 | 13.50 | 10.90 | 13.55 | 10.94 | 13.60 | 10.99 | 13.65 | 11.03 | 13.70 | 11.07 |
| Open Circuit Voltage(Voc/V) | 50.70 | 47.90 | 50.90 | 48.10 | 51.10 | 48.30 | 51.30 | 48.50 | 51.50 | 48.70 | 51.70 | 48.90 | 51.90 | 49.10 |
| Short Circuit Current(Isc/A) | 14.14 | 11.41 | 14.19 | 11.46 | 14.25 | 11.51 | 14.30 | 11.55 | 14.35 | 11.60 | 14.41 | 11.64 | 14.46 | 11.68 |
| Module Efficiency(%) | 22.60% | | 22.80% | | 23.00% | | 23.20% | | 23.40% | | 23.60% | | 23.80% | |

Mechanical Parameters

| | |
|---------------|--|
| Cell Type | N-Type TopCon Half-cut Cell |
| No. of Cells | 144 |
| Front Cover | 3.2 mm glass, high transmission, AR coated, tempered |
| Encapsulation | EVA |
| Back Cover | Transparent backsheet |
| Junction Box | IP68 rated, 3 bypass diodes |
| Frame | 30 mm anodized aluminium alloy |
| Cable | 1 x 4 mm ² , 350 mm length or customized |
| Connectors | MC 4/ MC 4 compatible |
| Weight | 28kg |
| Dimension | 2278*1134*30mm |
| Packaging | 740pcs/40HQ Container |

Mechanical Loading

| | |
|-----------------|----------------------------------|
| Snow Load | 5400 Pa or 550 kg/m ² |
| Wind Load | 2400 Pa or 244 kg/m ² |
| 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 |

Bifacial Output-Rearside Power Gain

| | | | | | | | | |
|-----|--------------------------|-------|-------|-------|-------|-------|-------|-------|
| 5% | Maximum Power (Pmax) | 614W | 620W | 625W | 630W | 635W | 641W | 646W |
| | Module Efficiency STC(%) | 23.7% | 23.9% | 24.2% | 24.4% | 24.6% | 24.8% | 25.0% |
| 10% | Maximum Power (Pmax) | 644W | 649W | 655W | 660W | 666W | 671W | 677W |
| | Module Efficiency STC(%) | 24.9% | 25.1% | 25.3% | 25.5% | 25.7% | 26.0% | 26.2% |

High-tech enterprises in China



Ocean Solar

E-mail: info@oceansolar.cn
Web: www.oceansolar.cn

©2024 Ocean Solar All rights reserved.
Specifications included in this datasheet are subject to change without notice.

