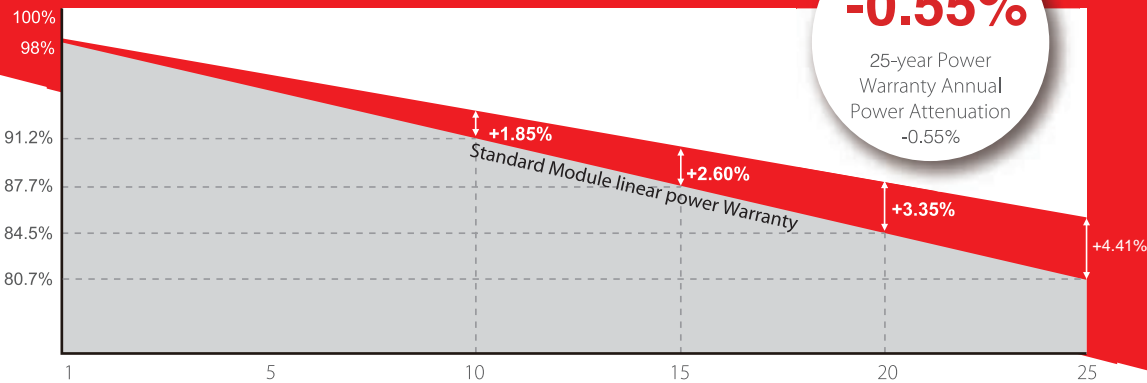


# AOX-72MS

**395~415W Mono Module**  
**High Efficiency**  
**Higher Output Power**  
**Low LID Mono PERC**  
**Lower Temperature Coefficient**  
**With Half-cell Technology**



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



## Complete System and Product Certifications

IEC 61215, IEC 61730  
 ISO 9001:2008  
 ISO 14001:2004  
 OHSAS 18001:2007



Positive power tolerance (0 ~ +5W) guaranteed

High module conversion efficiency

Slower power degradation enabled by Low LID Mono PERC technology: first year <2%, 0.55% year 2-25

Solid PID resistance ensured by solar cell process optimization and careful module BOM selection

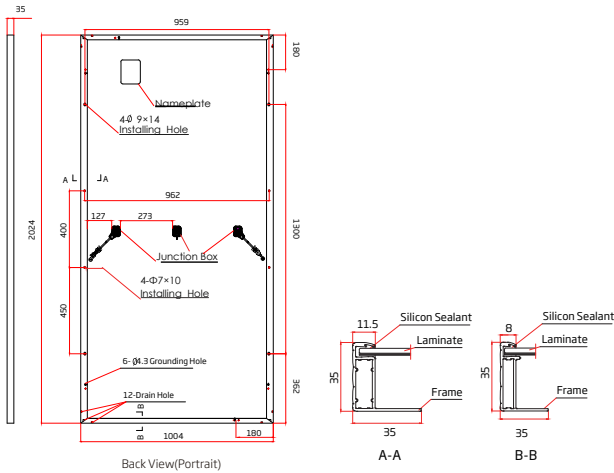
Reduced resistive loss with lower operating current

Higher energy yield with lower operating temperature

Reduced hot spot risk with optimized electrical design and lower operating current

# AOX-72MS 395-415W

## Design (mm)



## Mechanical Parameters

Cell Orientation: 6 × 24=144  
 Junction Box: IP68, three diodes  
 Output Cable: 4mm<sup>2</sup>  
 length can be customized  
 Glass: Single glass  
 3.2mm coated tempered glass  
 Frame: Anodized aluminum alloy frame  
 Weight: 22.5KG  
 Dimension: 2024\*1004\*35mm  
 Packaging: 30pcs per pallet  
 300pcs per 20'GP  
 660pcs per 40'GP  
 726pcs per 40'HQ

## Operating Parameters

Operational Temperature: -40 C ~ +85 C  
 Power Output Tolerance: 0 ~ +5 W  
 Voc and Isc Tolerance: ±3%  
 Maximum System Voltage: DC1500V (IEC/UL)  
 Maximum Series Fuse Rating: 20A  
 Nominal Operating Cell Temperature: 45±2 C  
 Safety Class: Class II  
 Fire Rating: UL type 1 or type 2

## Electrical Characteristics

Test uncertainty for Pmax: ±3%

Model Number	AOX-72MS-395W		AOX-72MS-400W		AOX-72MS-405W		AOX-72MS-410W		AOX-72MS-415W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	395	292	400	296	405	300	410	303	415	307
Open Circuit Voltage (Voc/V)	49.21	45.30	49.50	45.56	49.81	45.81	50.12	46.06	50.43	46.06
Voltage at Maximum Power (Vmp/V)	40.85	37.52	41.17	37.76	41.46	38.03	41.76	38.28	42.06	38.58
Short Circuit Current (Isc/A)	10.21	8.23	10.26	8.28	10.32	8.33	10.37	8.38	10.42	8.40
Current at Maximum Power (Imp/A)	9.67	7.79	9.72	7.84	9.77	7.88	9.82	7.93	9.97	7.96
Module Efficiency(%)	19.5		19.7		20.0		20.2		20.4	

STC (Standard Testing Conditions): Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25 C, Spectra at AM1.5  
 NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20 C, Spectra at AM1.5, Wind at 1m/S

## Temperature Ratings ( STC )

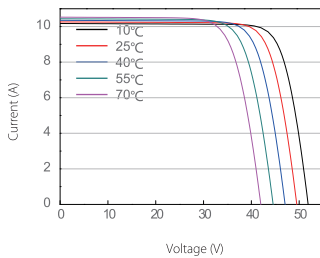
Temperature Coefficient of Isc: +0.057%/C  
 Temperature Coefficient of Voc: -0.286%/C  
 Temperature Coefficient of Pmax: -0.370%/C

## Mechanical Loading

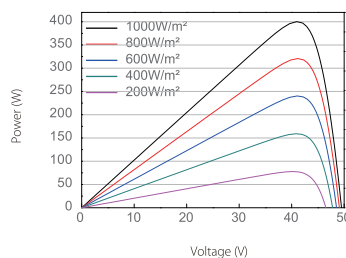
Front Side Maximum Static Loading: 5400Pa  
 Rear Side Maximum Static Loading: 2400Pa  
 Hailstone Test: 25mm Hailstone at the speed of 23m/s

## I-V Curve

Current-Voltage Curve(AOX-72MS-400W)



Power-Voltage Curve(AOX-72MS-400W)



Current-Voltage Curve(AOX-72MS-400W)

