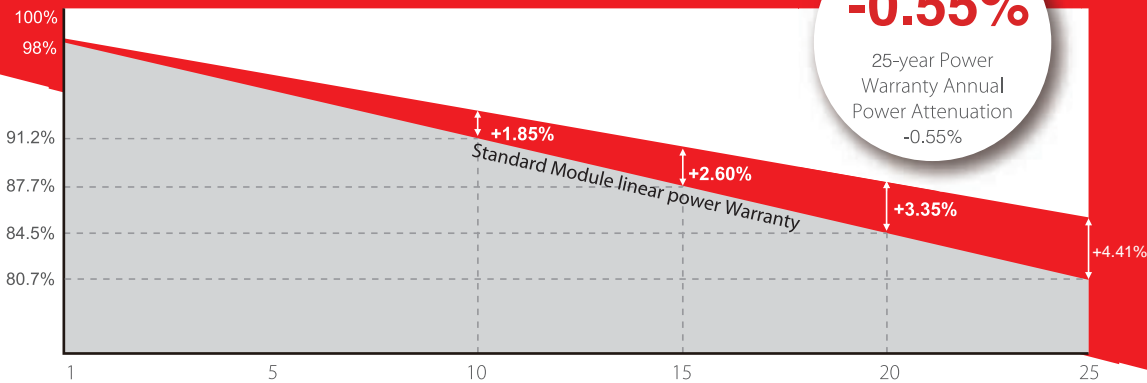


AOX-96M/PRO

# 590-610W Mono Module

High Efficiency  
Higher Output Power  
Low LID Mono PERC  
Lower Temperature Coefficient  
With Full Technology  
With 9BB Mono Cell 166\*166mm

10-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 (up to 19.8%)

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

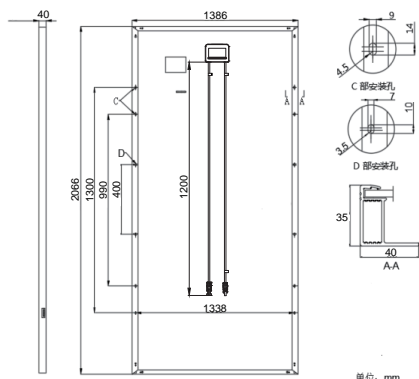
Reduced resistive loss with lower operating current

Higher energy yield with lower operating temperature

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

# AOX-96M/PRO 590-610W 9BB

## Design (mm)



Units: mm(inch)  
 Tolerance:  
 Length: ±2mm  
 Width: ±2mm  
 Height: ±1mm  
 Pitch-row: ±1mm

## Mechanical Parameters

Cell Orientation: 8 × 12 = 96 (cell size: 166 × 166)  
 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: 31.5KG  
 Dimension: 2066 × 1386 × 40mm  
 Packaging: 26 pcs per pallet  
 Can be customized per 20'GP  
 Can be customized 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-96M/PRO-590W		AOX-96M/PRO-595W		AOX-96M/PRO-600W		AOX-96M/PRO-605W		AOX-96M/PRO-610W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	590	436.6	595	440.3	600	444.0	605	447.7	610	451.4
Open Circuit Voltage (Voc/V)	58.80	54.78	59.05	55.02	59.29	55.26	59.53	55.51	59.78	55.75
Short Circuit Current (Isc/A)	13.09	10.40	13.15	10.45	13.20	10.48	13.26	10.52	13.32	10.56
Voltage at Maximum Power (Vmp/V)	48.20	44.90	48.40	45.10	48.60	45.30	48.80	45.50	49.00	45.70
Current at Maximum Power (Imp/A)	12.24	9.72	12.30	9.76	12.35	9.80	12.40	9.84	12.45	9.88
Module Efficiency(%)	20.6		20.8		21.0		21.1		21.3	
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 )

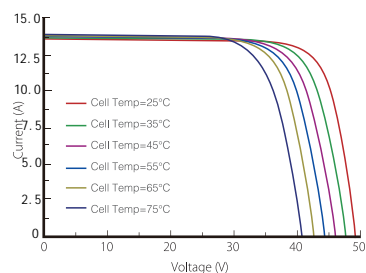
Temperature Coefficient of Isc	+0.057%/°C
Temperature Coefficient of Voc	-0.286%/°C
Temperature Coefficient of Pmax	-0.370%/°C

## Mechanical Loading

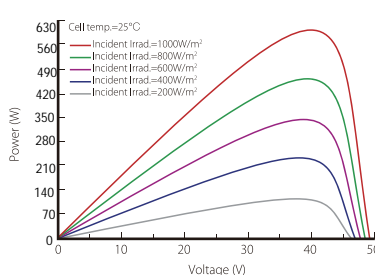
Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

## I-V Curve

Current-Voltage Curve(AOX-96M/PRO-600W)



Power-Voltage Curve(AOX-96M/PRO-600W)



Current-Voltage Curve(AOX-96M/PRO-600W)

