

A0X-144M10FL

520W-535W

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**Lightweight**  
Optimized composite materials, 60% lighter at the same power.
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**Resin-fiber Strength Improvement**  
The modulus is as high as 1300MPa, improving the overall strength of the module and solving the hidden crack problem of the cell.
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**Self-developed Polymer Materials**  
Light transmittance  $\geq 91\%$ , far more than conventional solar panels, photoelectricity conversion without a barrier. Ultra-high UV blocking ability ensures power generation efficiency for 25 years.
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**Easy to Install**  
Factory-integrated for easy transportation and handling; Eliminating traditional bracket systems and saving installation costs and time.
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**V0 Rated flame retardant materials**  
Use V0 Rated flame retardant materials to improve component fire performance.

\* Specifications subject to technical changes and tests. Kinse Solar reserves the right of interpretation.

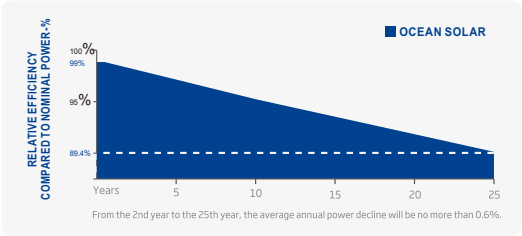


PRODUCT Certifications



PRODUCT Warranty

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



Electrical Characteristics

Module Type	AOX-144M10FL 520W		AOX-144M10FL 525W		AOX-144M10FL 530W		AOX-144M10FL 535W	
Test conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax)[W]	520	394	525	397	530	401	535	404
Maximum Power Voltage(Vmp)[V]	41.03	37.80	41.21	38.00	41.39	38.20	41.57	38.40
Maximum Power Current (Imp)[A]	12.67	10.36	12.75	10.42	12.81	10.47	12.87	10.53
Open-circuit Voltage (Voc)[V]	48.94	46.10	49.09	46.20	49.24	46.30	49.39	46.40
Short-circuit Current (Isc)[A]	13.64	10.91	13.70	10.96	13.76	11.02	13.83	11.07
Module Efficiency STC(%)	19.54		19.73		19.91		20.10	

\*STC : Irradiance at 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5  
\*NOCT : Irradiance at 800W/㎡ , Ambient Temperature 20℃ , Wind Speed 1 m/s

Mechanical Characteristics

Cell Type	P type Mono-crystalline 182 * 91 mm
No. of cells	144(12×12)
Dimensions	2246 * 1185 * 2.6 mm
Weight	8.0 Kg
Junction Box	IP68 Rated
Output Cables	4.0 mm²
Cable Length	400mm or Customized Length

Application parameters

Maximum system voltage	DC1500V(IEC)
Maximum series fuse rating	25A
Power tolerance	0 ~ +5W

Temperature coefficient

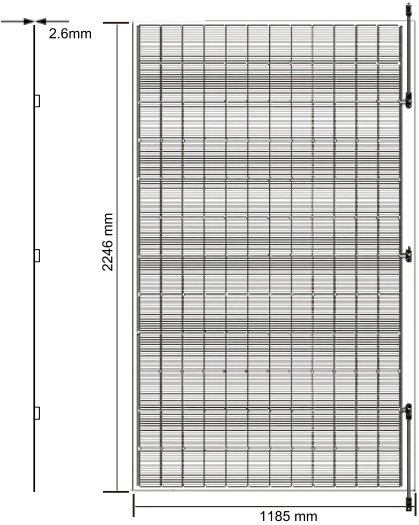
Temperature coefficients of Pmax	-0.37 %/℃
Temperature coefficients of Voc	-0.28 %/℃
Temperature coefficients of Isc	0.05 %/℃
Operating Temperature	-40℃ ~ +85℃
Nominal operating cell temperature (NOCT)	45±2℃

Packaging Configuration

70pcs/pallets, 700pcs/ 40'HQ Container

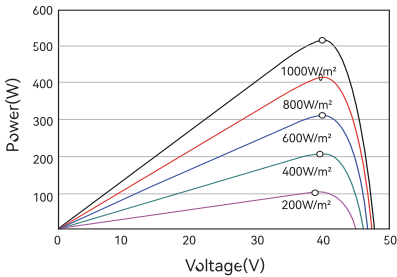
 High-tech enterprises in China

Dimension

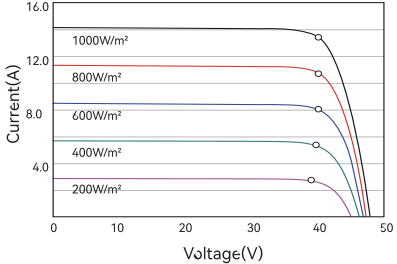


Electrical Performance

P-V Curves of PV Module (530W)



I-V Curves of PV Module (530W)



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