



465W~485W

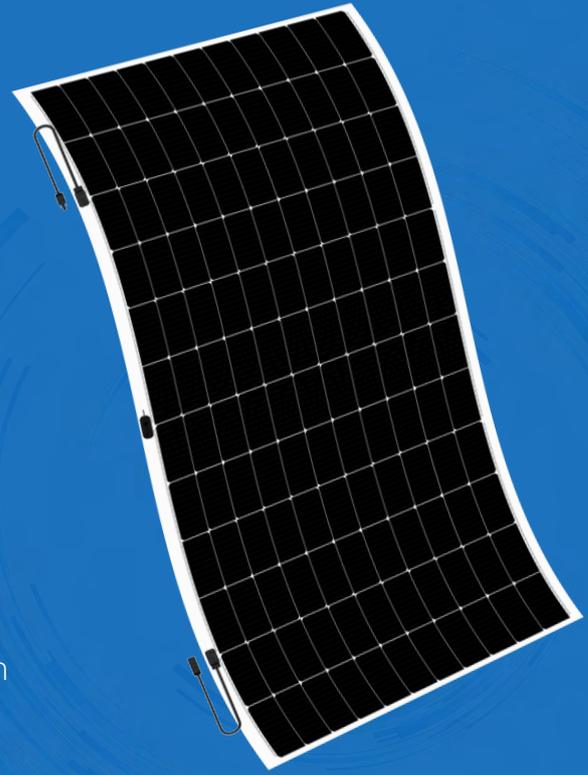
MONO-FLEXIBLE MODULE

IEC61215(2016),IEC61730(2016)

ISO9001:2015 Quality Management System

ISO14001:2015 Environmental Management System

ISO45001:2018 Occupational Health and Safety Management System



Key Features



Lightweight

Optimized composite materials, 60% lighter at the same power.



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.



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.



Easy to Install

Factory-integrated for easy transportation and handling; Eliminating traditional bracket systems and saving installation costs and time.

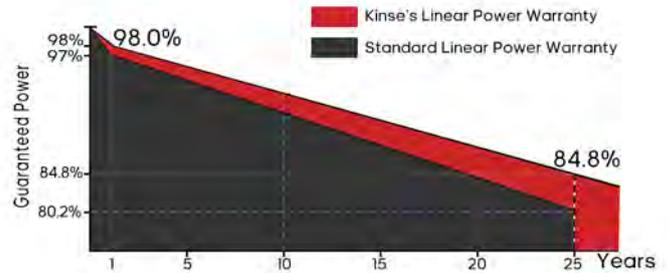


V0 Rated flame retardant materials

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.

Linear Performance Warranty



Leading product and power warranty

12YEAR Materials and workmanship warranty

25YEAR Linear power warranty



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Electrical Characteristics

Module Type	KS465-132-M182-FL		KS470-132-M182-FL		KS475-132-M182-FL		KS480-132-M182-FL		KS485-132-M182-FL	
Test conditions	STC	NOCT								
Maximum Power(Pmax)[W]	465	349	470	353	475	357	480	361	485	365
Maximum Power Voltage(Vmp)[V]	37.27	34.51	37.44	34.67	37.61	34.83	37.78	34.99	37.95	35.15
Maximum Power Current (Imp)[A]	12.50	10.12	12.57	10.19	12.64	10.26	12.71	10.33	12.79	10.40
Open-circuit Voltage (Voc)[V]	44.56	41.26	44.71	41.40	44.86	41.54	45.01	41.68	45.16	41.82
Short-circuit Current (Isc)[A]	13.54	10.94	13.60	10.99	13.66	11.04	13.72	11.09	13.78	11.14
Module Efficiency STC(%)	18.96		19.16		19.37		19.57		19.77	

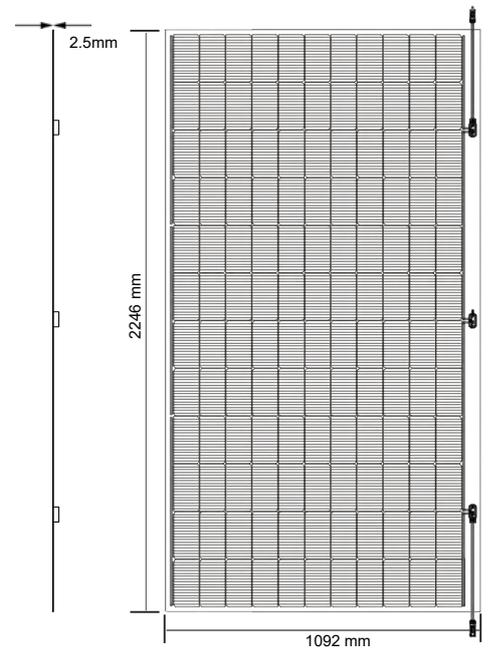
*STC : Irradiance at 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5

*NOCT : Irradiance at 800W/ m². Ambient Temperature 20°C , Wind Speed 1 m/s

Mechanical Characteristics

Cell Type	P type Mono-crystalline 182 * 91 mm
No. of cells	132(12x11)
Dimensions	2246 * 1092 * 2.5 mm
Weight	7.4 Kg
Junction Box	IP68 Rated
Output Cables	4.0 mm ²
Cable Length	400mm or Customized Length

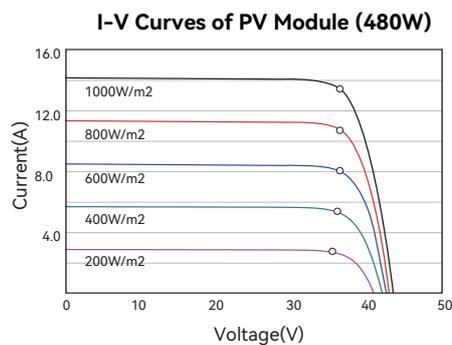
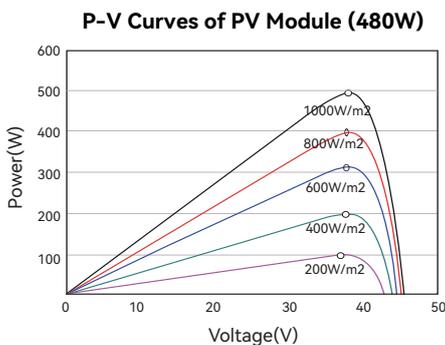
Dimension



Temperature coefficient

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

Electrical Performance



Application parameters

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

Packaging Configuration

70pcs/pallets, 1400pcs/40'HQ Container

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