



# 430W~445W

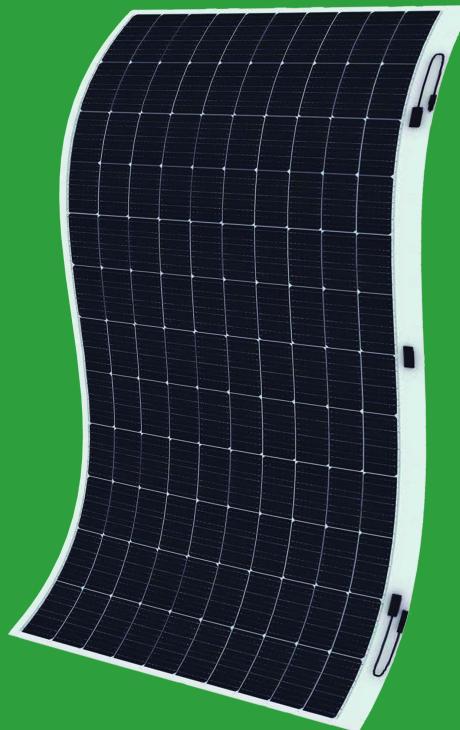
## MONO-FLEXIBLE MODULE

IEC61215(2016), IEC61730(2016)

ISO9001:2015 Quality Management System

ISO14001:2015 Environment 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

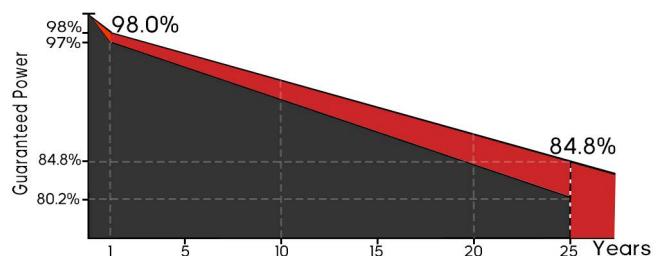
Light transmittance  $\geq 91\%$ , far more than conventional solar panels, photoelectricity conversion without a barrier. Ultra-high UV blocking ability ensures power generation efficiency for 25 years.



### Easy to Install

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

### Linear Performance Warranty



### Leading product and power warranty

**12<sup>YEAR</sup>** Materials and workmanship warranty

**25<sup>YEAR</sup>** Linear power warranty



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

## Electrical Characteristics

Module Type	AS-6M144FL-HC-430W		AS-6M144FL-HC-435W		AS-6M144FL-HC-440W		AS-6M144FL-HC-445W	
Test conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax)[W]	430	320	435	324	440	328	445	332
Maximum Power Voltage(Vmp)[V]	33.50	31.05	33.70	31.21	33.90	31.39	34.10	31.57
Maximum Power Current (Imp)[A]	12.82	10.34	12.90	10.39	12.98	10.45	13.06	10.51
Open-circuit Voltage (Voc)[V]	40.60	38.31	40.80	38.45	41.00	38.59	41.20	38.73
Short-circuit Current (Isc)[A]	13.25	10.95	13.33	11.01	13.41	11.07	13.49	11.13
Module Efficiency STC(%)	18.77		18.99		19.21		19.42	

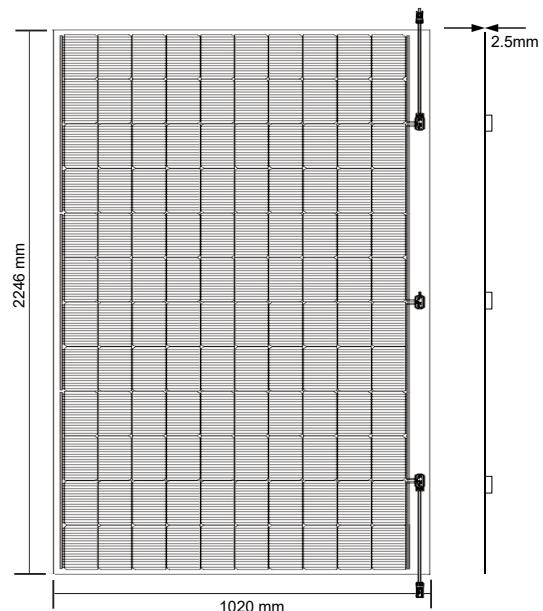
\*STC : Irradiance at 1000 W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5

\*NOCT : Irradiance at 800W/m<sup>2</sup>, Ambient Temperature 20°C , Wind Speed 1 m/s

## Mechanical Characteristics

Cell Type	Mono-crystalline 182 * 91 mm
No. of cells	120(12 x 10)
Dimensions	2246 * 1020 * 2.5mm
Weight	6.9 Kg
Junction Box	IP68 Rated
Output Cables	4.0 mm <sup>2</sup>
Cable Length	400mm or Customized Length

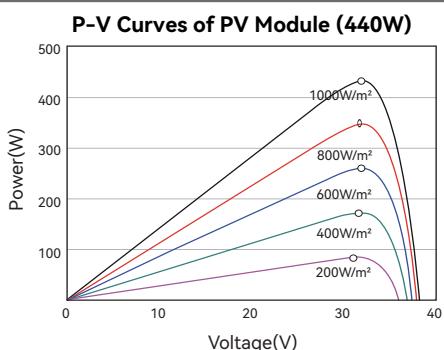
## Dimension



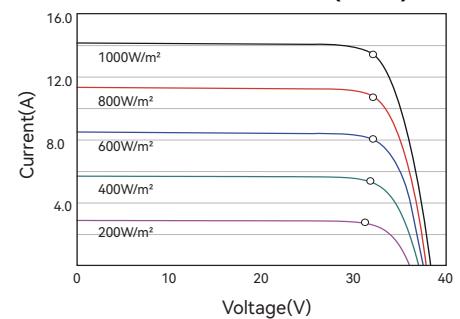
## Application parameters

Maximum system voltage	DC1500V(IEC)
Maximum series fuse rating	25A
Mechanical Load	Snow load 5400Pa, Wind load 2400Pa
Power tolerance	0 ~ +5W

## Electrical Performance



## I-V Curves of PV Module (440W)



## 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

## Packaging Configuration

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