



Kinse Solar

# 520W~535W

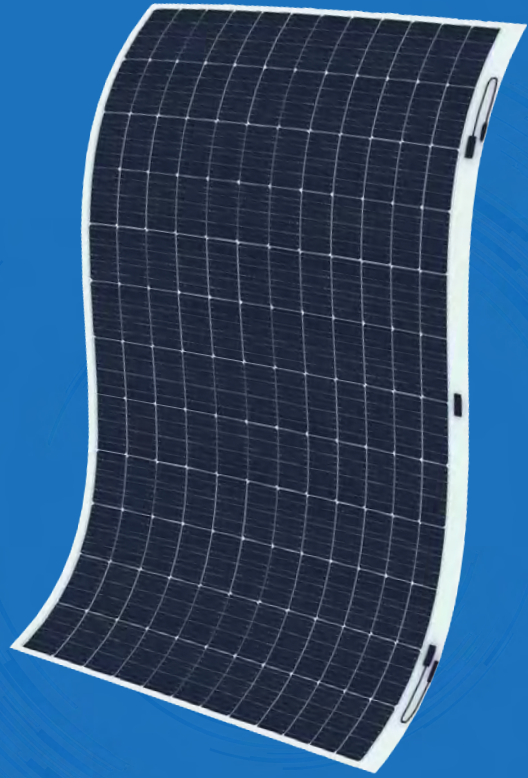
## MONO-FLEXIBLE MODULE

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.

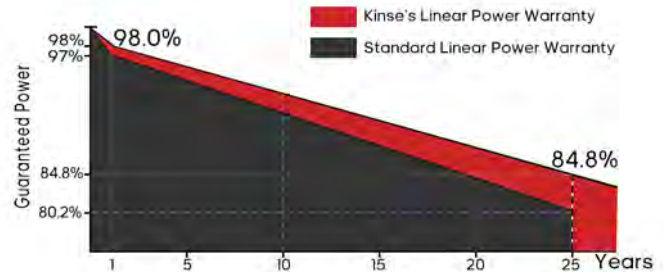


### Easy to Install

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

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

### Linear Performance Warranty



## Leading product and power warranty

**12**YEAR Materials and workmanship warranty

**25**YEAR Linear power warranty



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## Electrical Characteristics

Module Type	KS520-144-M182-FL		KS525-144-M182-FL		KS530-144-M182-FL		KS535-144-M182-FL	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
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/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	P type Mono-crystalline 182 * 91 mm
No. of cells	144(12×12)
Dimensions	2246 * 1185 * 2.6 mm
Weight	9.0 Kg
Junction Box	IP68 Rated
Output Cables	4.0 mm <sup>2</sup>
Cable Length	400mm or Customized Length

## Application parameters

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

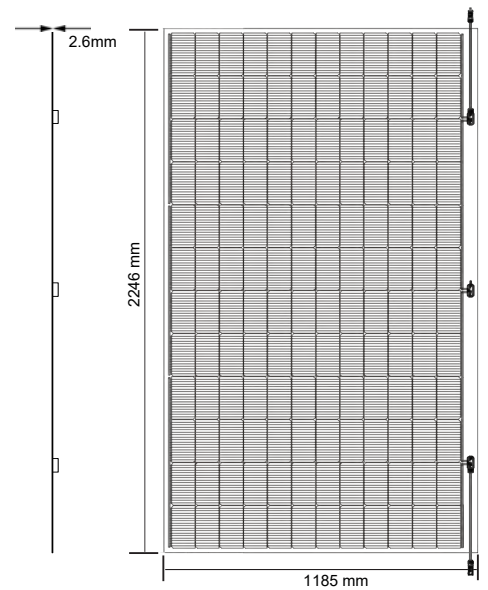
## Temperature coefficient

Temperature coefficients of Pmax	-0.37 %/°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

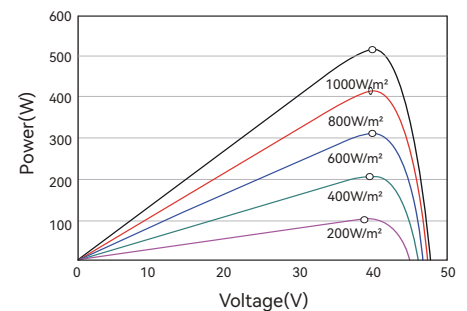
70pcs/pallets, 700pcs/ 40'HQ Container

## Dimension



## Electrical Performance

P-V Curves of PV Module (530W)



I-V Curves of PV Module (530W)

