

# Solar Panel

## PRODUCT DATASHEET

### 530-550 Watts

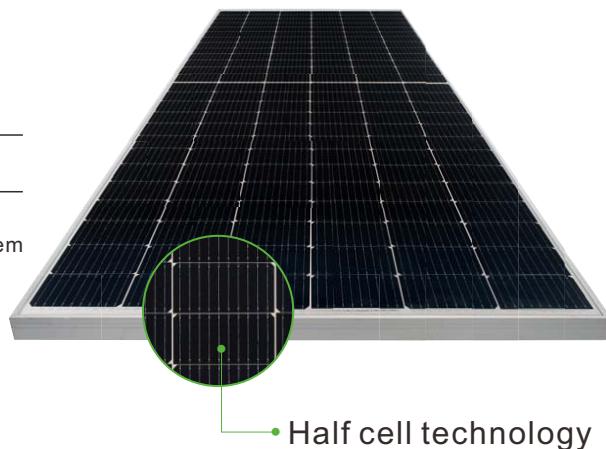
### Monocrystalline silicon single-sided solar modules

P-Type

0~+3% positive tolerance

IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality Management System



• Half cell technology

#### Component Characteristics



##### Multi main grid technology

Better light utilization and current collection capacity, effectively improving the reliability of product output.



##### Better resistance to hot spots

By optimizing the circuit design and working current, better temperature rate and hot spot ability can be obtained.



##### Anti PID guarantee

Through the optimization of battery production technology and material control, the attenuation probability caused by PID image is minimized



##### Adaptability to harsh environment

The third party has passed the high salt spray and high ammonia corrosion test.



##### Load capacity

The whole assembly has passed the certification of 2400pa wind load and 5400pa snow load.

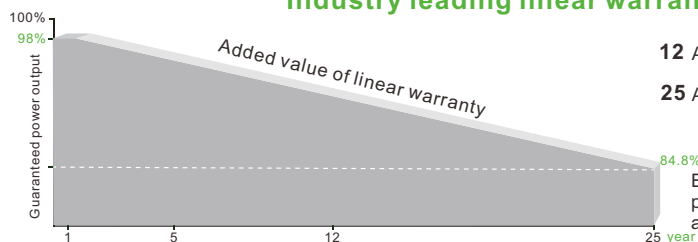


#### Industry leading linear warranty

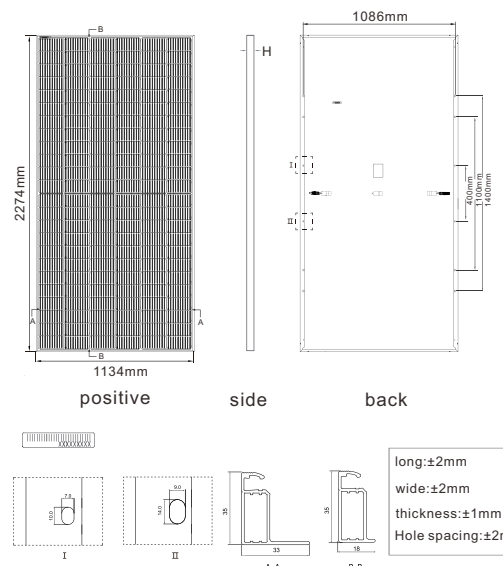
12 Annual material and process warranty

25 Annual linear warranty

Excellent warranty commitment 25 year power warranty 0.55% linear power attenuation



#### Assembly drawing



#### Packaging standard

Transportation and loading volume of flat car (model: high and low plate - the total length of the car is 17.5m, and the length of high plate is 3.5-4.5m).

Size of each bracket (mm) two thousand three hundred and four x one thousand one hundred and twenty x one thousand two hundred and forty-nine 31 yuan / Trust , 30 Torr / vehicle , 930 yuan /vehicle.

#### Electrical performance parameters

Component model	530M-72HL4 530M-72HL4-V		535M-72HL4 535M-72HL4-V		540M-72HL4 540M-72HL4-V		545M-72HL4 545M-72HL4-V		550M-72HL4 550M-72HL4-V	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum power(Pmax)	530Wp	394Wp	535Wp	398Wp	540Wp	402Wp	545Wp	405Wp	550Wp	409Wp
Optimum working voltage (Vmp)	40.56V	37.84V	40.63V	37.91V	40.70V	38.08V	40.80V	38.25V	40.90V	38.42V
Optimum working current (Imp)	13.07A	10.42A	13.17A	10.50A	13.27A	10.55A	13.36A	10.60A	13.45A	10.65A
Open circuit voltage (Voc)	49.26V	46.50V	49.34V	46.57V	49.42V	46.65V	49.52V	46.74V	49.62V	46.84V
Short-circuit current (Isc)	13.71A	11.07A	13.79A	11.14A	13.85A	11.19A	13.94A	11.26A	14.03A	11.33A
Component efficiency (%)	20.55%		20.75%		20.94%		21.13%		21.33%	
Operating temperature range (°C)	-40°C~+85°C									
Maximum system voltage	1000/1500VDC (IEC)									
Maximum rated fuse current	25A									
Output power tolerance	0~+3%									
Temperature Coefficient of Maximum Power (Pmax) Open Circuit	-0.35% / °C									
Temperature Coefficient of Voltage (Voc) Short Circuit	-0.28% / °C									
Temperature coefficient of flow (Isc)	0.048% / °C									
Temperature(NOCT)	45±2°C									

STC Light intensity 1000W/m<sup>2</sup>

Battery temperature 25°C

Air mass = 1.5

NOCT Light intensity 800W/m<sup>2</sup>

Ambient temperature 20°C

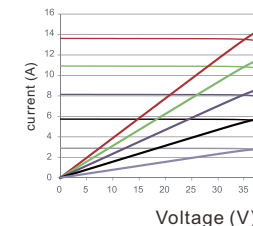
Air mass = 1.5

Wind speed 1m/s

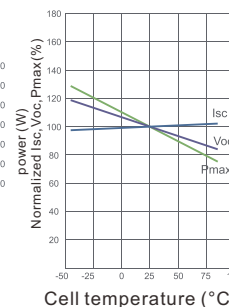
\* Power measurement error +/-3%

#### Diagram

Current voltage and power voltage curve(540W)



Isc, Voc, Pmax Temperature curve of



#### Structural parameters

Celltype	P-type monocrystalline silicon cell
Number of half cells	144(6x24)
Component size	2285×1134×35mm
Component weight	28kg
Upper surface glass material	3.2mm, high permeability coating toughened glass toughened
Frame	Anodized aluminum alloy
Junction box	Protection grade Ip68
Output wire	TUV 1×4.0mm <sup>2</sup> Conductor length: (+): 400mm, (-): 200mm

