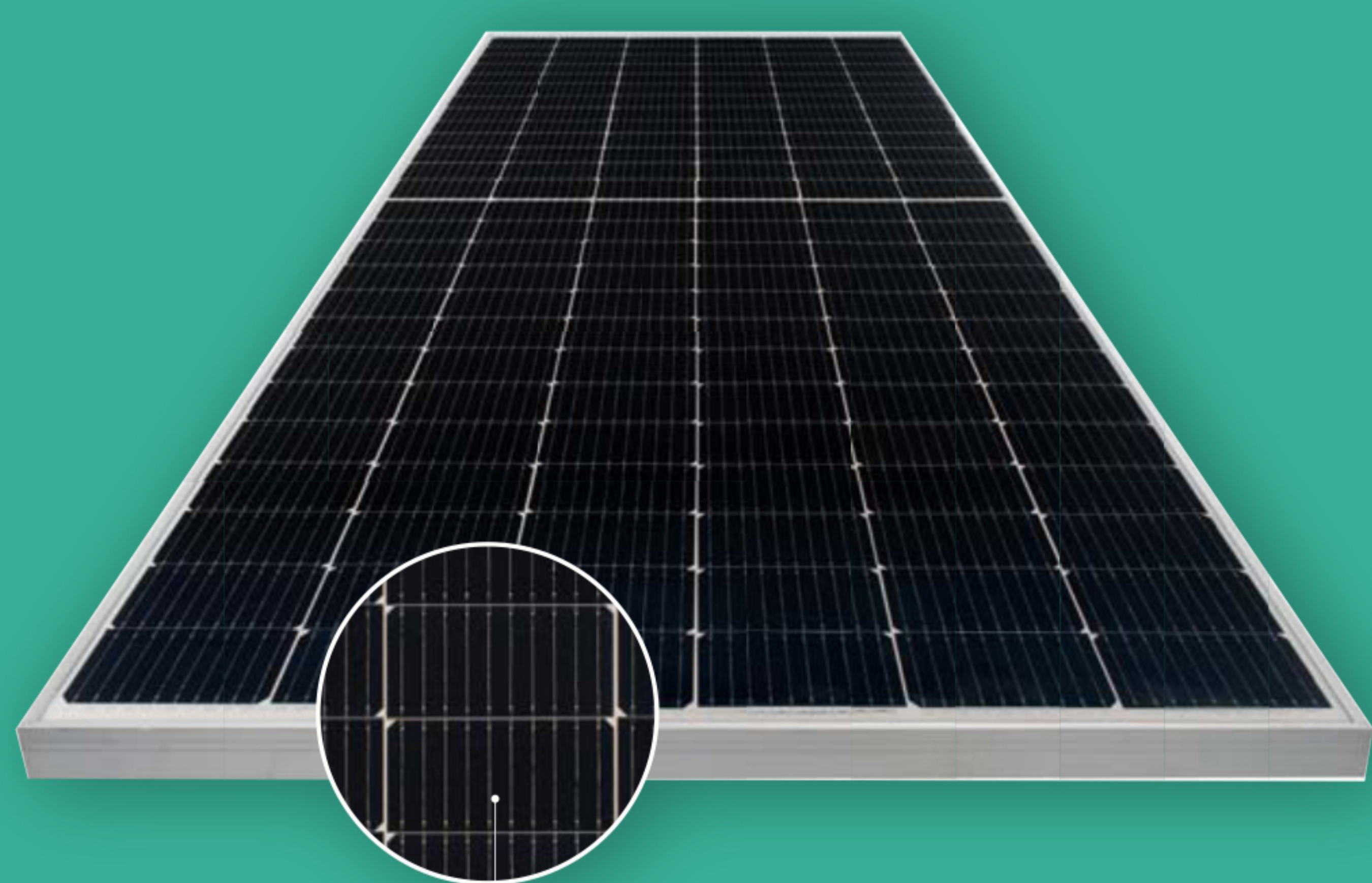


SINGLE CRYSTAL

# 550W MBB PERC

Half Piece Assembly

HN-M8/72WF 530-550 SERIES

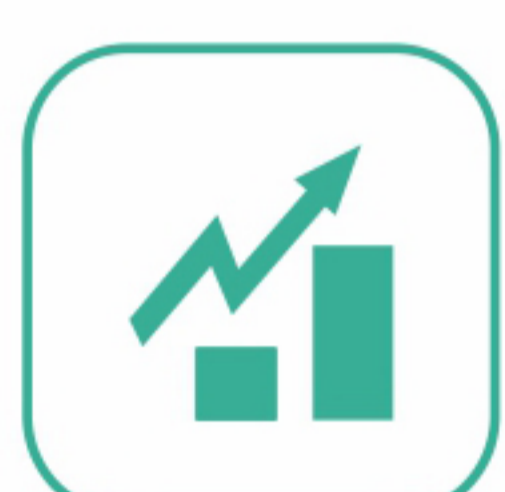


Half Cell Technology

### Product Introduction

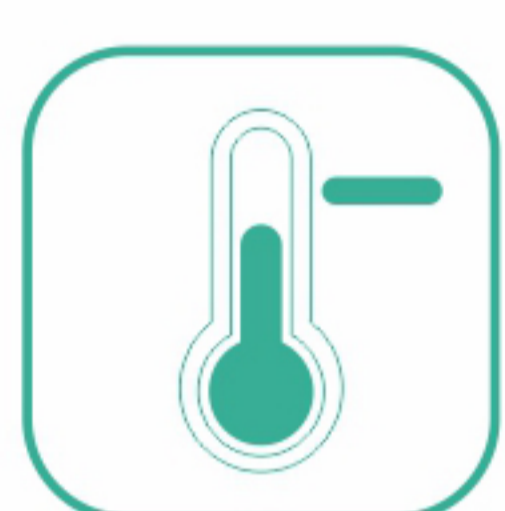
Adopting high-efficiency MBB per multiple grid batteries combined with half cutting technology, the product has higher output power and effectively reduces the system cost; The product has excellent performance in temperature coefficient and shadow shading loss. At the same time, the half piece technology effectively reduces the risk of hot spots, and has better power generation performance and reliability in system applications.

## Main Features



### Higher Power Output

0~+5W positive power tolerance guarantee



### Better Temperature Coefficient

maximum power (Pmax)  
temperature coefficient of  $-0.35\%/^{\circ}\text{C}$



### Less Shielding Loss

get better resistance to hot spots  
by optimizing circuit design



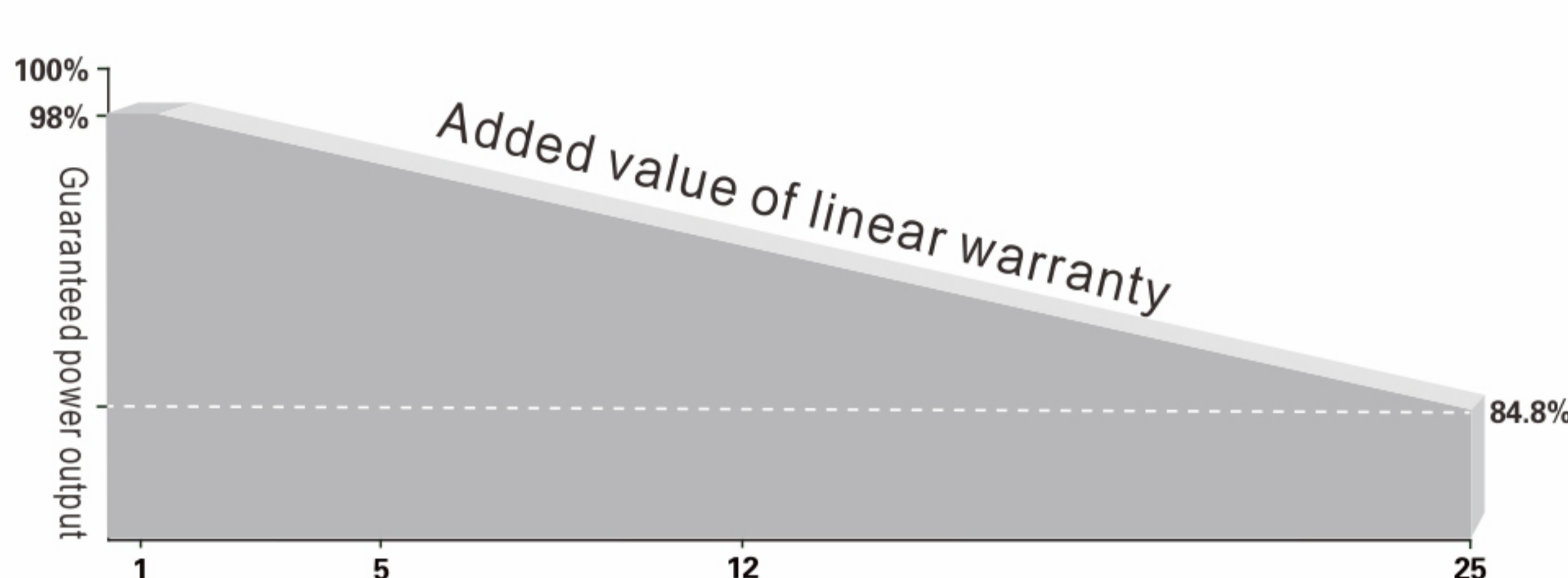
### Stronger Mechanical Properties

it has passed the certification of 2400pa  
wind load and 5400pa snow load

## Industry Leading Linear Warranty

12 year material and process warranty and 25 year linear warranty

$\leq 2\%$  in the first year, from the second year to the 25th year:  $\leq 0.55\%$  per year

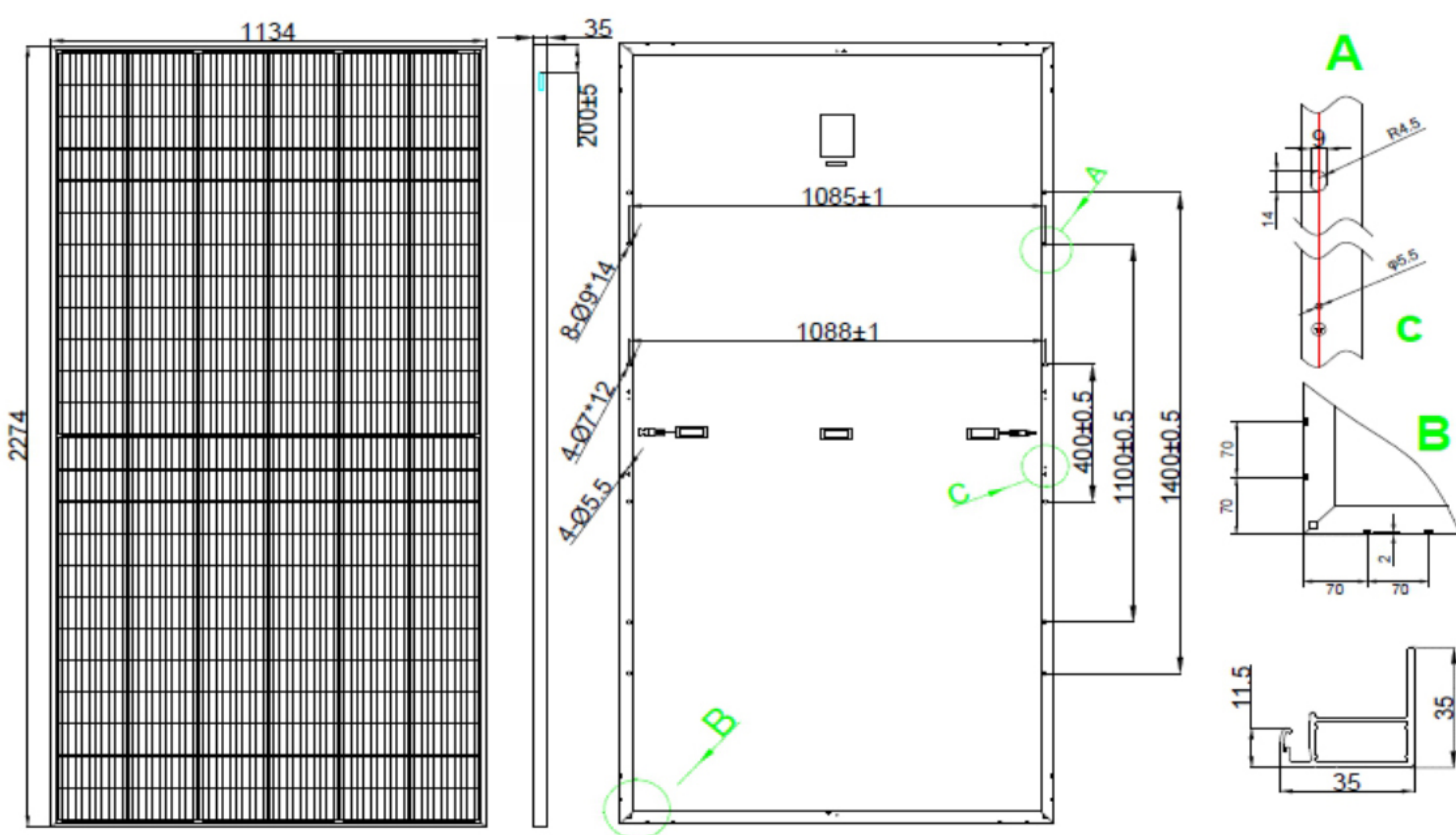


## Comprehensive Product And System Certification



## HN-M8/72WF 530-550 SERIES

### Engineering Drawings



Note: the border color and cable length can be customized on demand

### Product Specifications

Battery Type	Single crystal
Battery Slice	144 ( 6*24 )
Component Size	2274*1134*35mm
Glass Thickness	3.2mm
Border Type	Anodized aluminum profile
Junction Box	IP68 , 3SPLIT
Cable Section	4mm <sup>2</sup> (IEC) , 12AWG(UL)

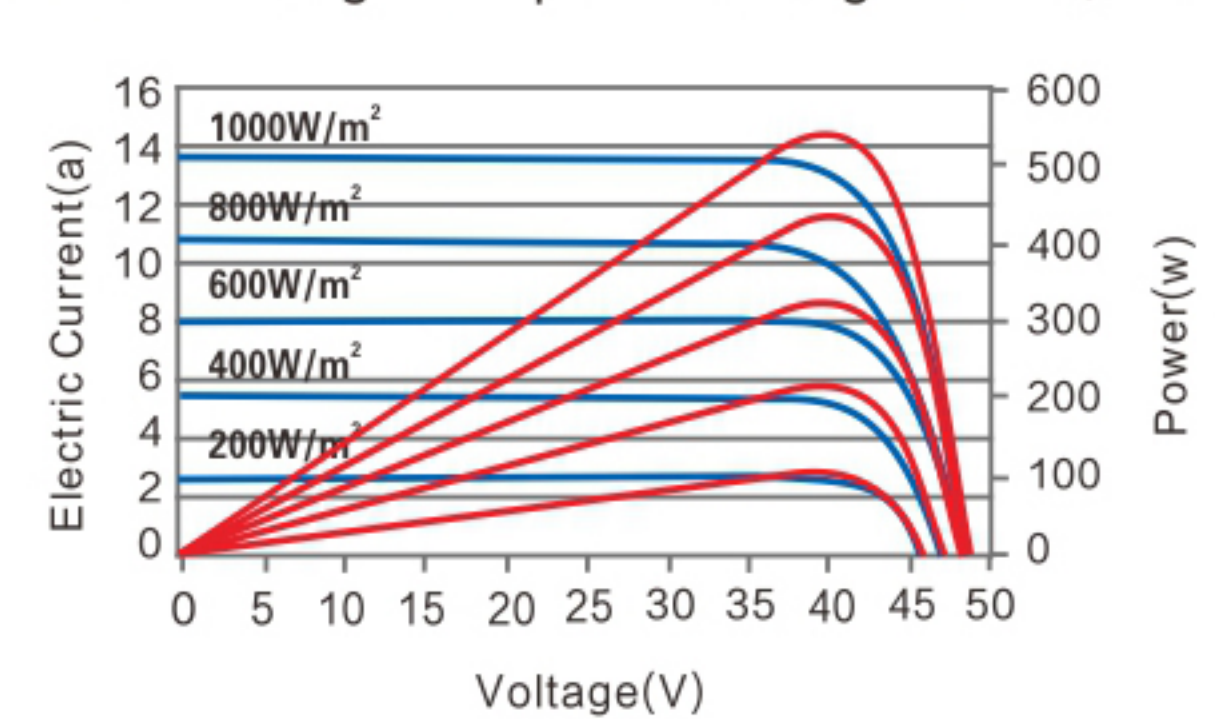
### Battery Performance Parameters

Model	HN-M8/72WF530		HN-M8/72WF535		HN-M8/72WF540		HN-M8/72WF545		HN-M8/72WF550	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Rated Peak Power(pmax)[w]	530	394	535	398	540	402	545	405	550	409
Rated Peak Voltage(vmp)[v]	40.56	37.84	40.63	37.91	40.70	38.08	40.80	38.25	40.90	38.42
Rated Peak Current(imp)[a]	13.07	10.42	13.17	10.50	13.27	10.55	13.36	10.60	13.45	10.65
Open Circuit Voltage(voc)[v]	49.26	46.50	49.34	46.57	49.42	46.65	49.52	46.74	49.62	46.84
Short Circuit Current(isc)[a]	13.71	11.07	13.79	11.14	13.85	11.19	13.92	11.26	14.03	11.33
Overall Efficiency Of Components(%)	20.6%		20.8%		20.9%		21.1%		21.3%	
Operating Temperature(°C )	-40°C~+85°C									
Maximum System Voltage	1500VDC(IEC)									
Maximum Fuse Rated Current	20A									
Power Tolerance	0~+3%									
Rated Power Temperature Coefficient ( pmp )	-0.35%/°C									
Open Circuit Voltage Temperature Coefficient ( voc )	-0.28%/°C									
Short Circuit Current Temperature Coefficient(isc)	0.048%/°C									
Nominal Operating Temperature Of Battery	45 ± 2°C									
Number Of Diodes	3									
Protection Grade Of Junction Box	IP68									

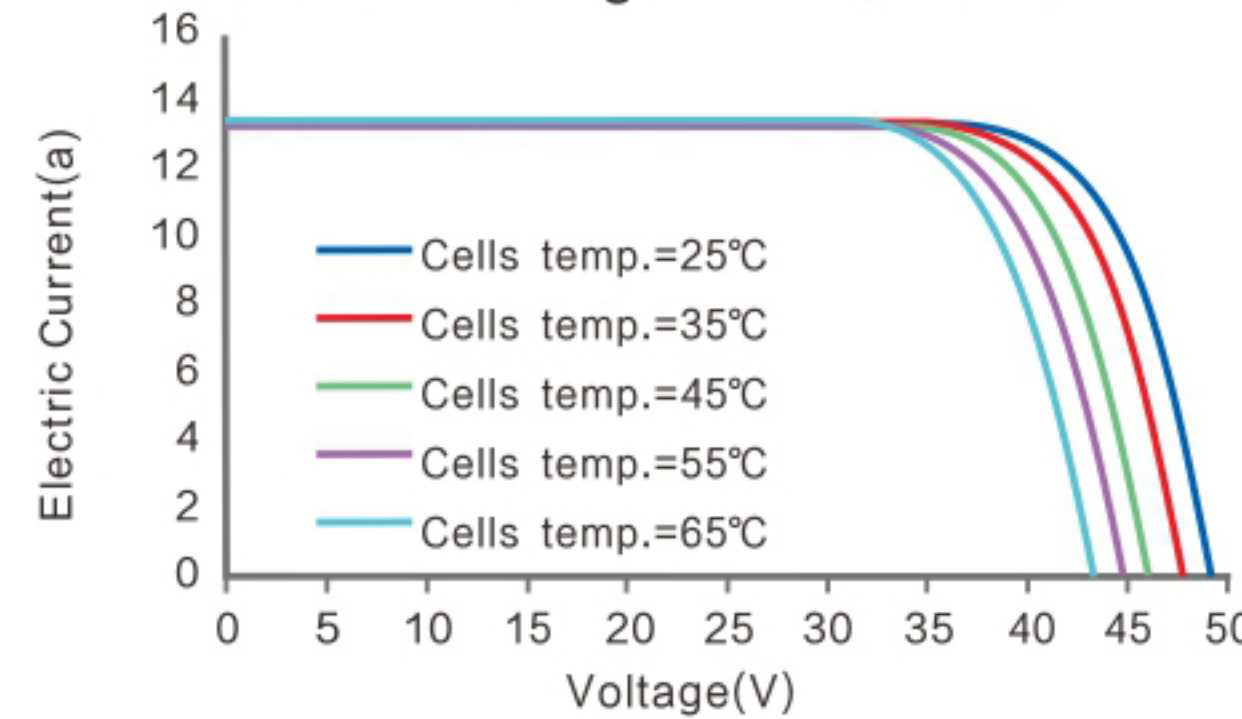
STC : light intensity 1000w/m<sup>2</sup>, battery temperature 25 °C, atmospheric quality =1.5 NOCT: light intensity 800w/m<sup>2</sup>, battery temperature 20 °C, atmospheric quality =1.5, wind speed 1m/s

### Characteristic Curve

Current voltage and power voltage curve (535W)



Current voltage curve (535W)



### Packaging Parameters

Component Weigh	28.9kg ± 3%
Single Trailer Quantity	31pieces / tray
Weight Per Palle	951kg
Loading Capacity	620 pieces /40ft containers 868pieces / car (17.5m flat car)