

SINGLE CRYSTAL

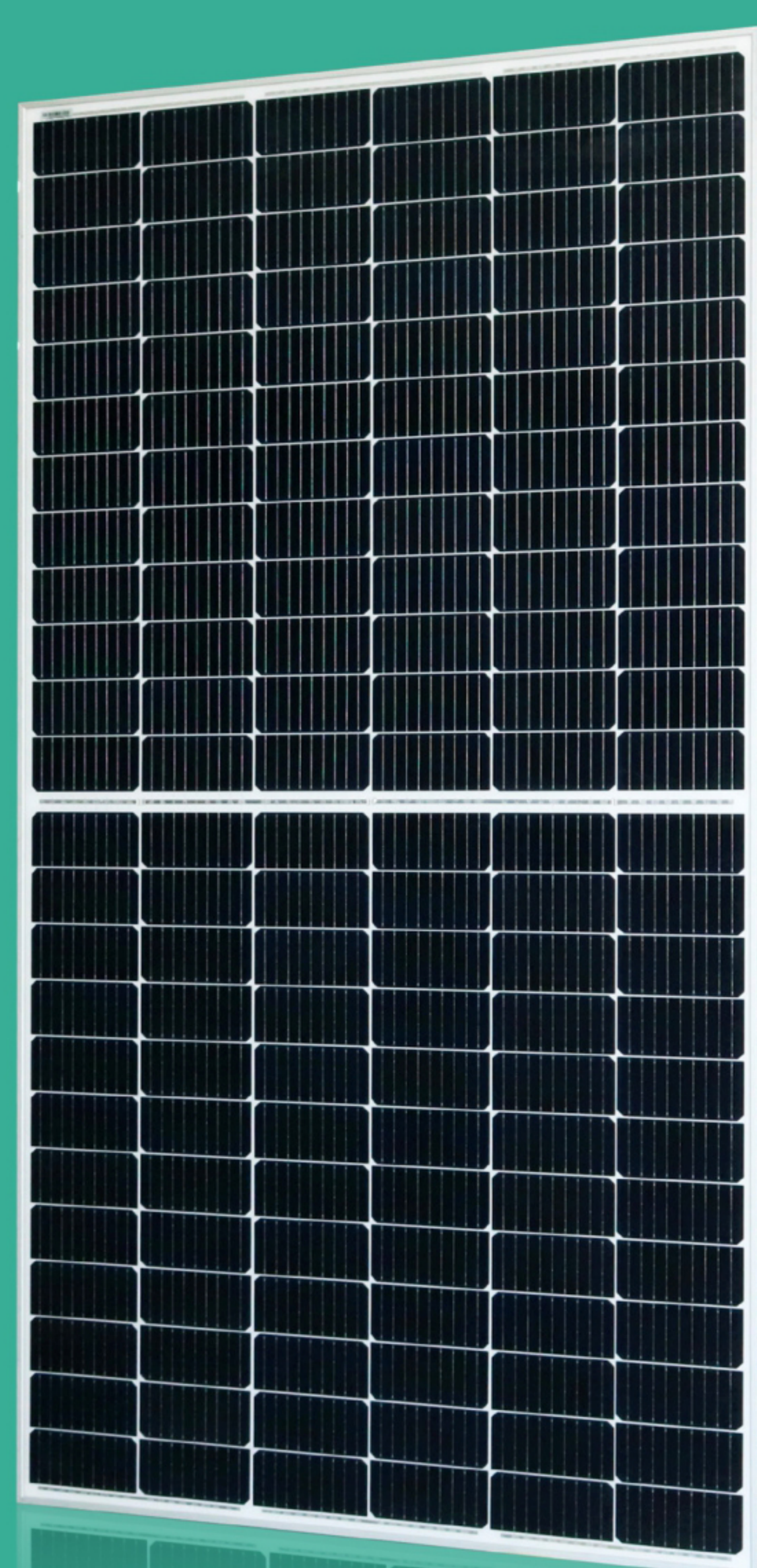
545W MBB PERC

Duplex Assembly

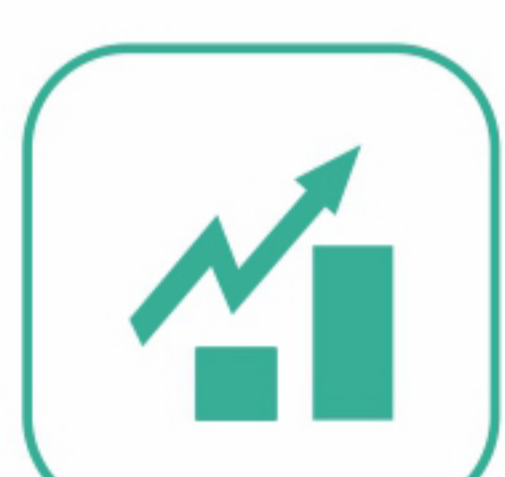
HN-M8/72GF 525-545 SERIES

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



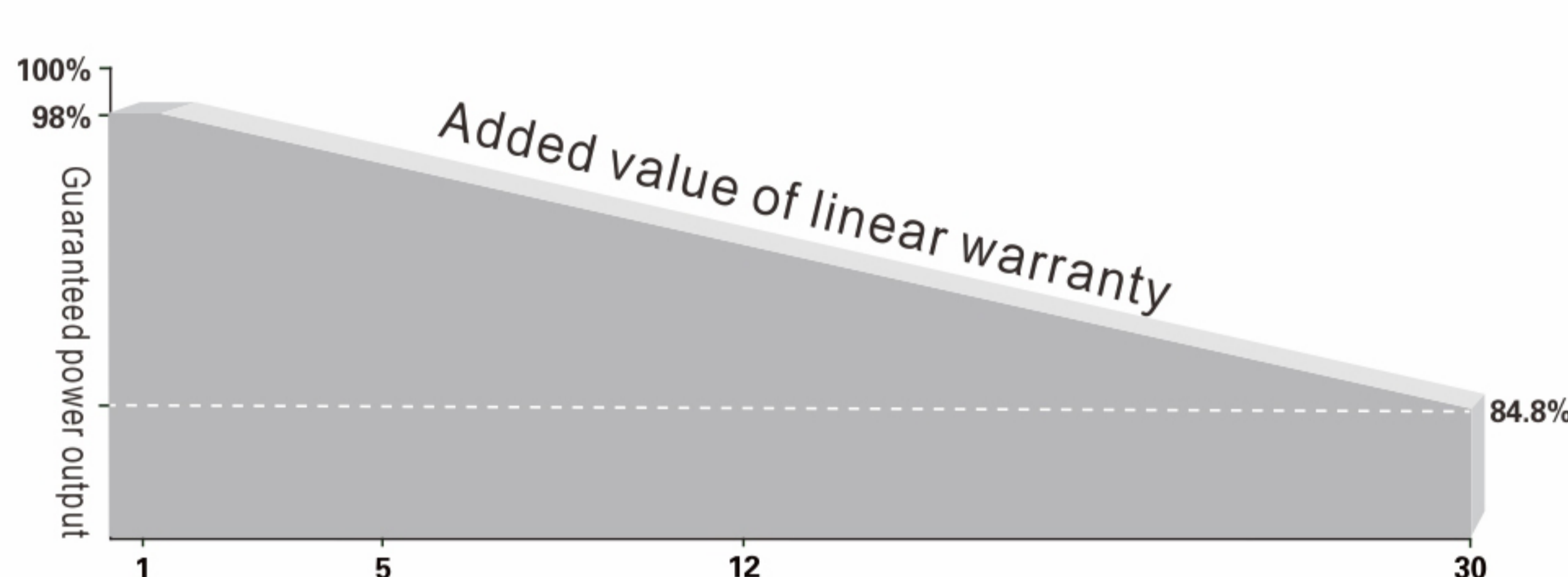
Stronger Mechanical Properties

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

Industry Leading Linear Warranty

12 year material and process warranty and 30 year linear warranty

$\leq 2\%$ in the first year, from the second year to the 30th year: $\leq 0.45\%$ per year

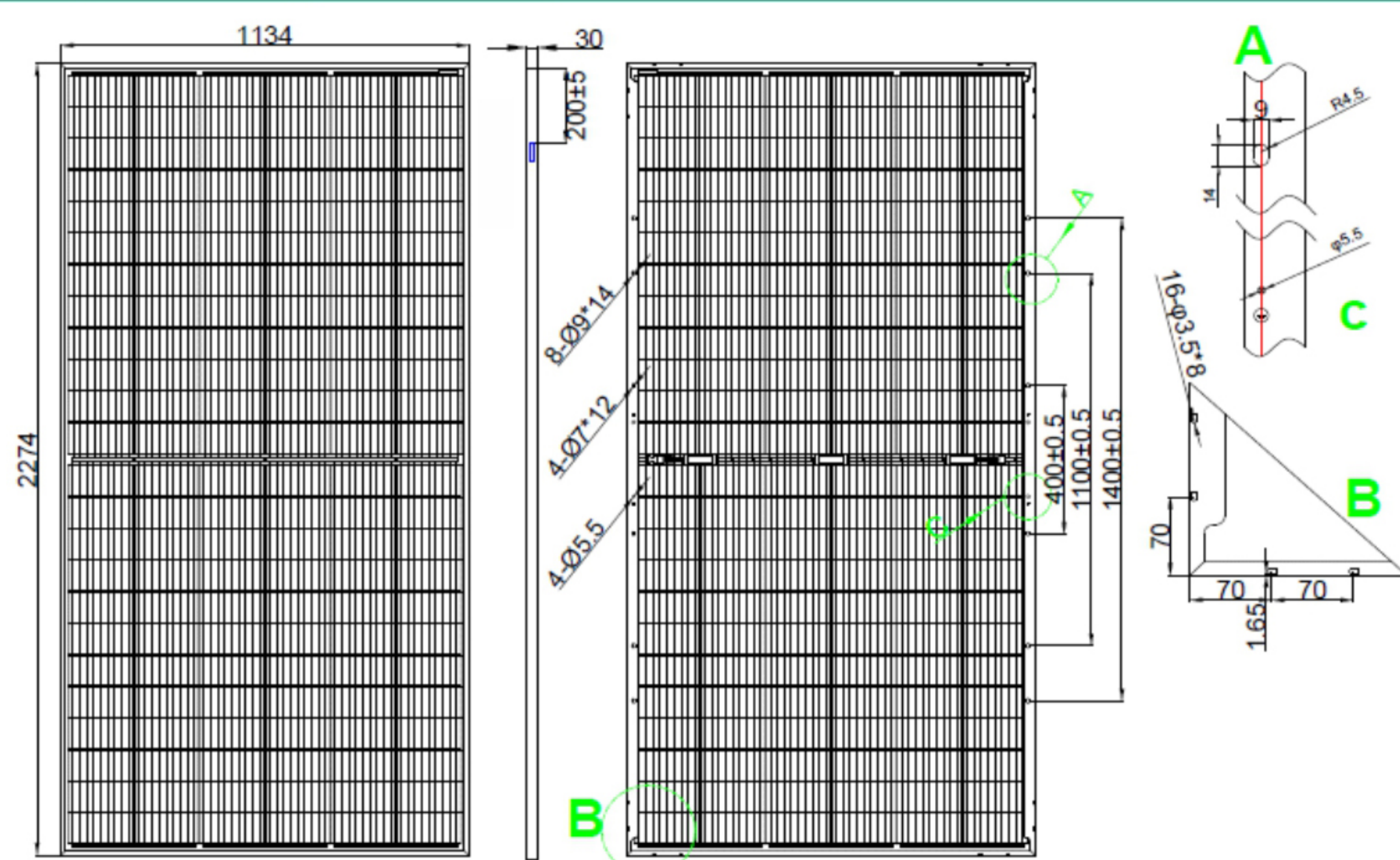


Comprehensive Product And System Certification



HN-M8/72GF 525-545 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*30mm
Glass Thickness	2.0mm
Border Type	Anodized aluminum profile
Junction Box	IP68 , 3SPLIT
Cable Section	4mm ² (IEC) , 12AWG(UL)

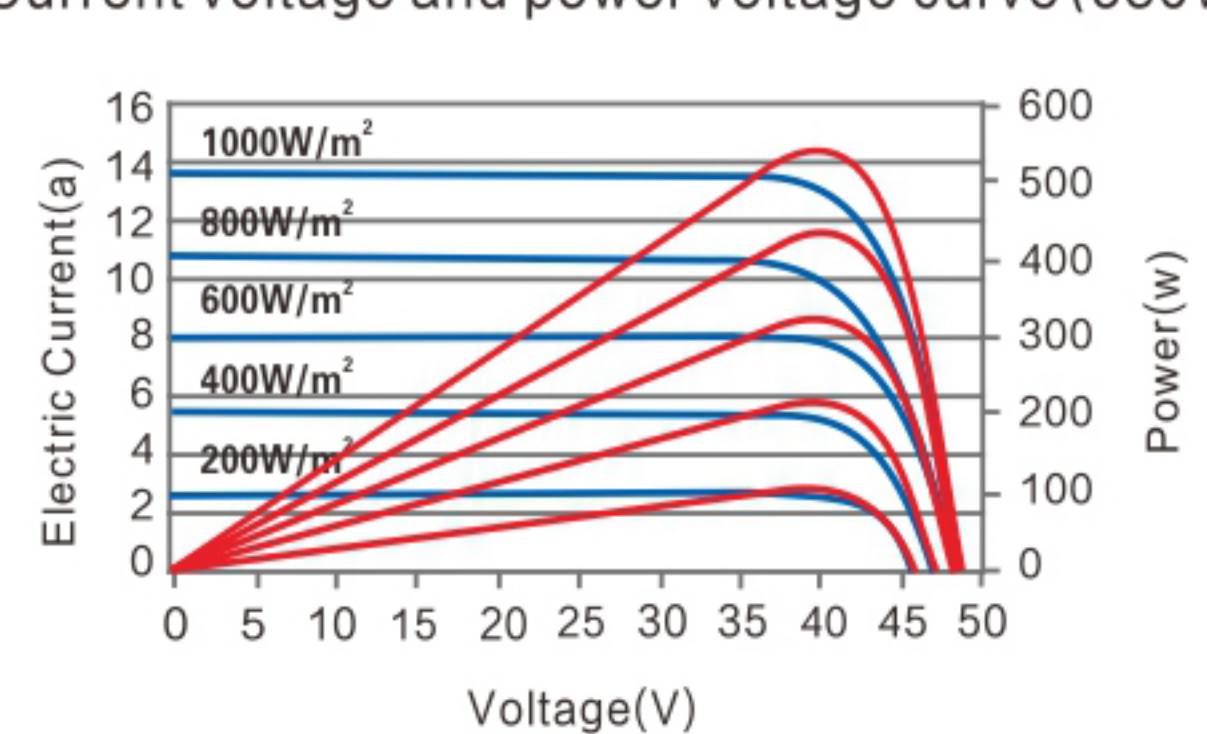
Battery Performance Parameters

Model	HN-M8/72GF525		HN-M8/72GF530		HN-M8/72GF535		HN-M8/72GF540		HN-M8/72GF545	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Rated Peak Power(pmax)[w]	525	391	530	394	535	398	540	402	545	405
Rated Peak Voltage(vmp)[v]	40.80	37.81	40.87	37.88	40.94	37.94	41.13	38.08	41.32	38.25
Rated Peak Current(imp)[a]	12.87	10.33	12.97	10.41	13.07	10.49	13.13	10.55	13.19	10.60
Open Circuit Voltage(voc)[v]	49.42	46.65	49.48	46.70	49.54	46.76	49.73	46.94	49.92	47.12
Short Circuit Current(isc)[a]	13.63	11.01	13.73	11.09	13.83	11.17	13.89	11.22	13.95	11.27
Overall Efficiency Of Components(%)	20.4%		20.6%		20.8%		20.9%		21.1%	
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 (pmpp)	-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									

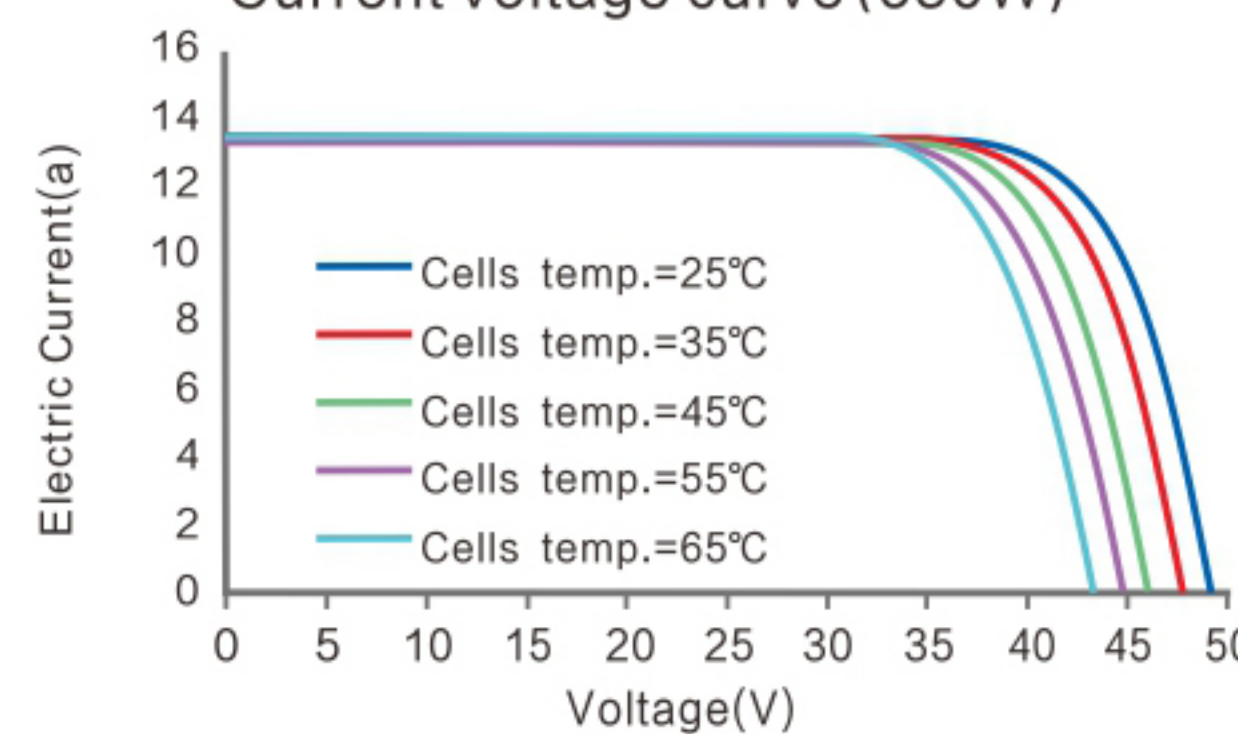
STC : light intensity 1000w/m², battery temperature 25 °C, atmospheric quality =1.5 NOCT: light intensity 800w/m², battery temperature 20 °C, atmospheric quality =1.5, wind speed 1m/s

Characteristic Curve

Current voltage and power voltage curve (530W)



Current voltage curve (530W)



Packaging Parameters

Component Weigh	24.3kg ± 3%
Single Trailer Quantity	36pieces / tray
Weight Per Palle	1290kg
Loading Capacity	720 pieces /40ft containers 1080pieces / car (17.5m flat car)