

ETHM450-465W (120)

182 P- Type, Mono Facial Module
Positive power tolerance of 0~+3%

KEY FEATURES

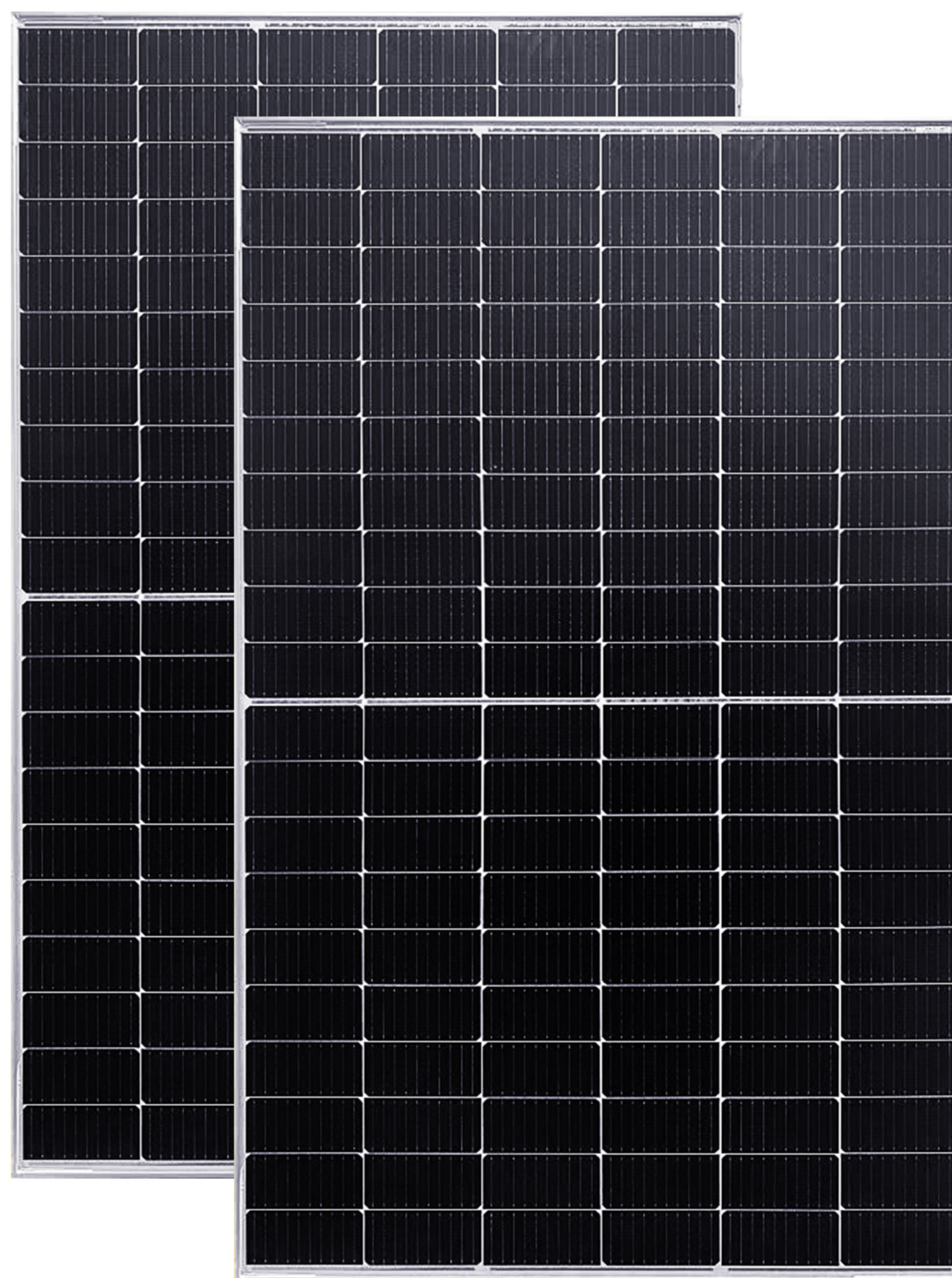
MBB Technology
Better light trapping and current collection to improve module power output and reliability.

PID Resistance
Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.

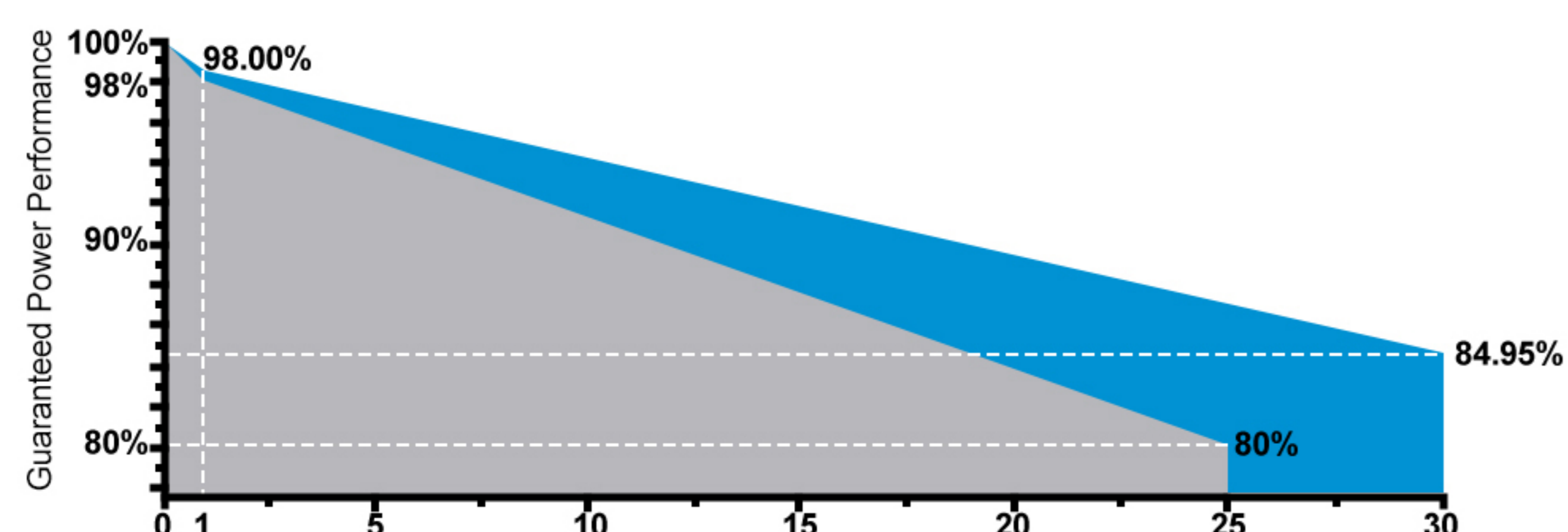
Durability Against Extreme Environmental Conditions
High salt mist and ammonia resistance.

Hot 2.0 Technology
The P-type module with Hot 2.0 technology has better reliability and lower LID/LETID.

Enhanced Mechanical Load
Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).



LINEAR PERFORMANCE WARRANTY



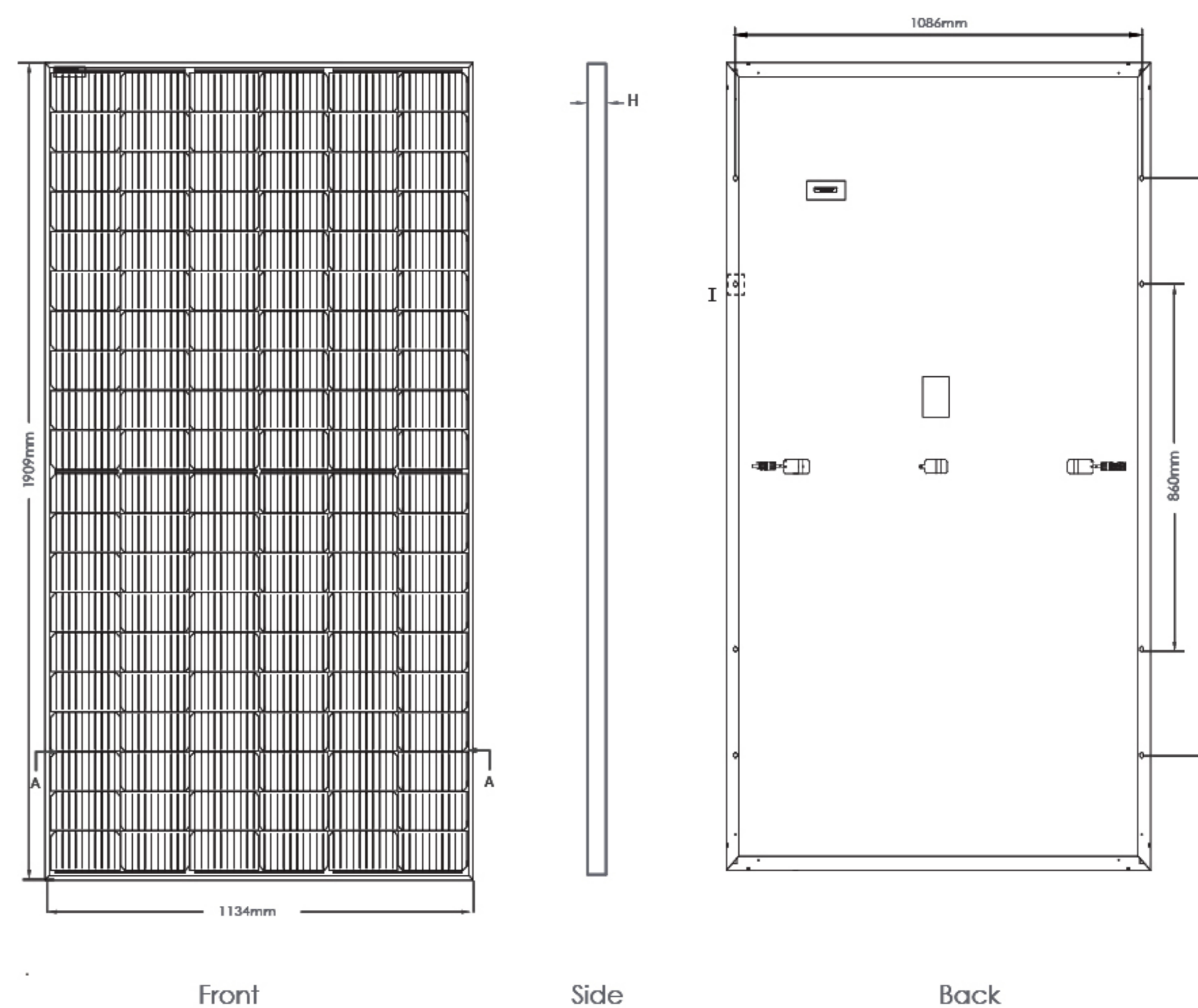
- 12 Year Product Warranty
- 30 Year Linear Power Warranty
- 0.45% Annual Degradation Over 30 years



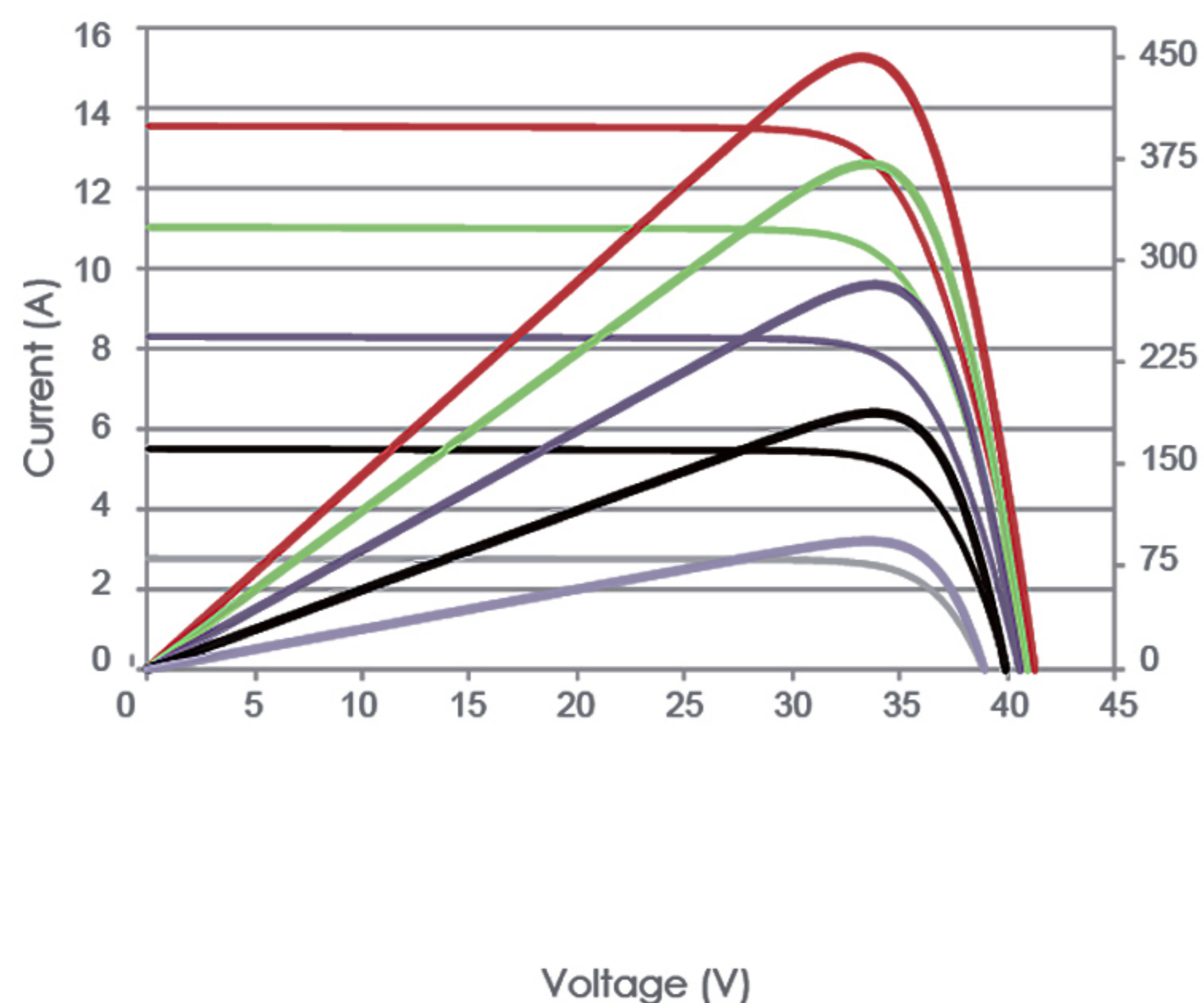
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Mechanical Data

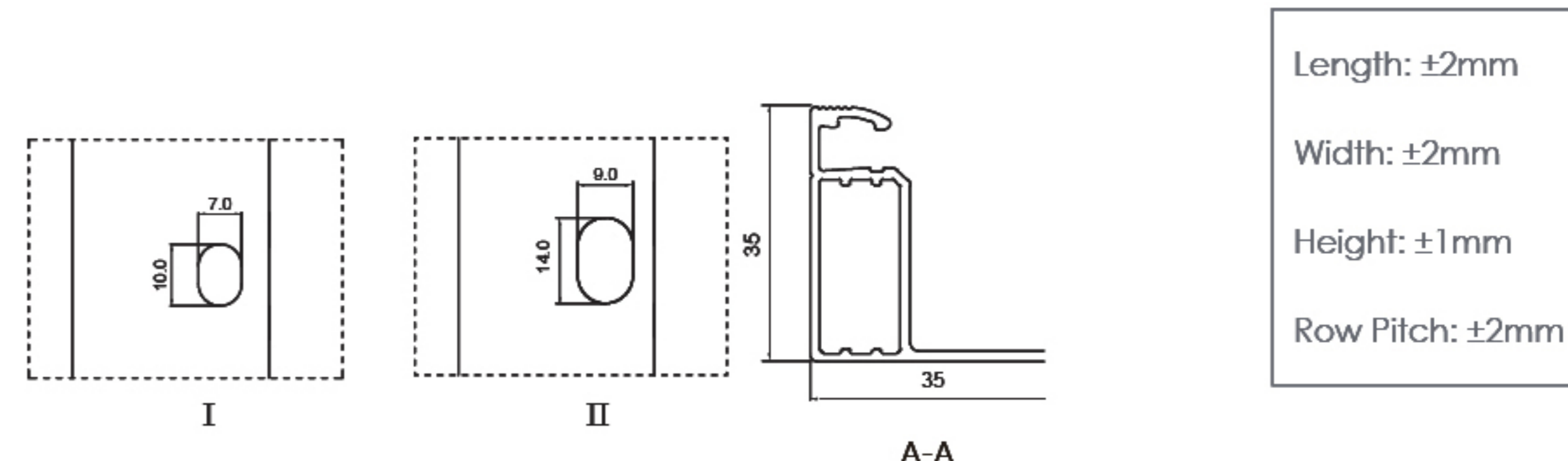
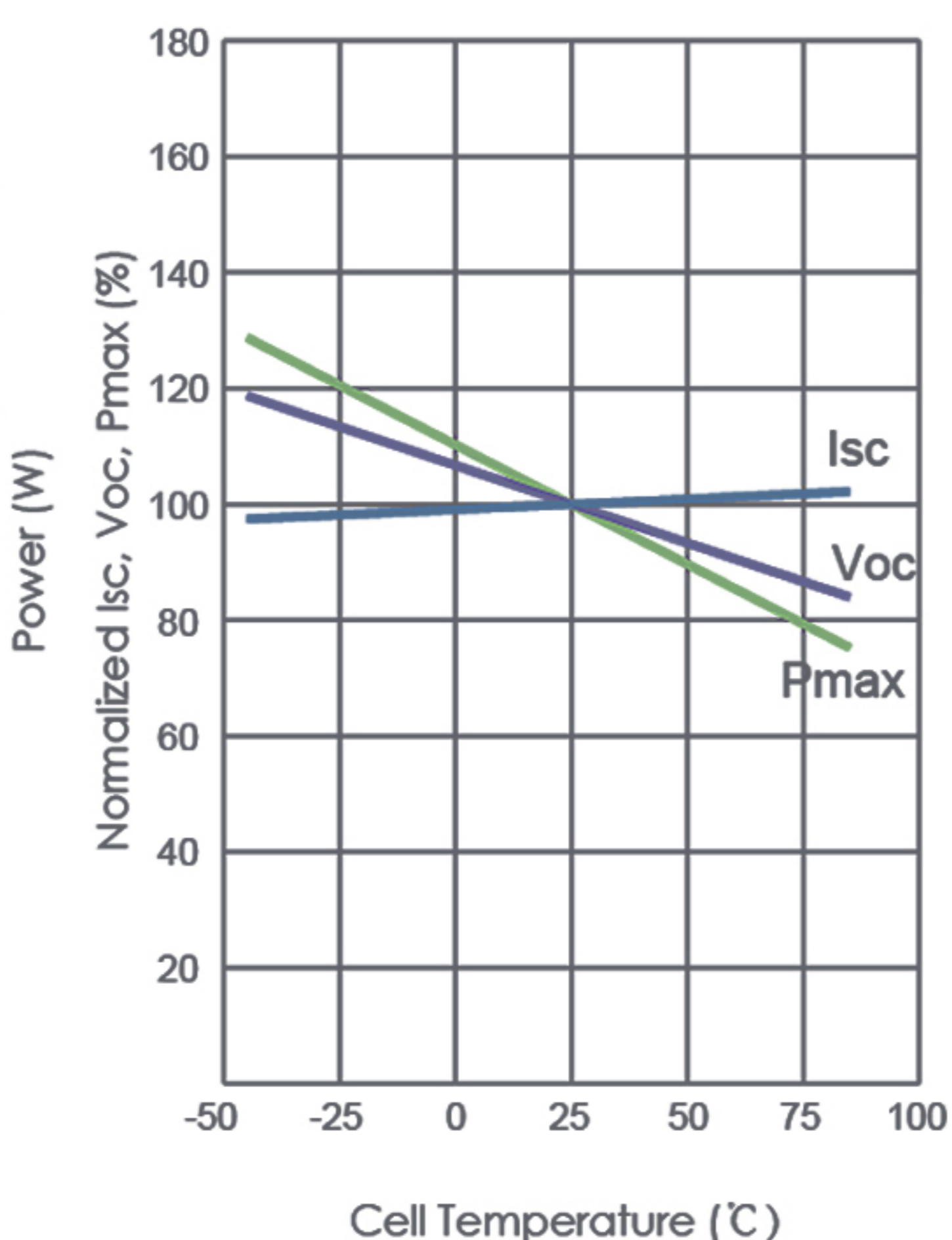
Cell Type	182 P type Mono-crystalline
No. of cells	120 (6×20)
Dimensions	1909×1134×35mm
Weight	22.5 kg
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Output Cables	1×4.0mm ² (+): 300mm, (-): 300mm or Customized Length



Current-Voltage & Power-Voltage Curves (450W)



Temperature Dependence of Isc, Voc, Pmax



Packaging Configuration

(Two pallets = One stack)

31pcs/pallets, 62pcs/stack, 744pcs/ 40'HQ Container

Specifications

Module Type	ETHM 450W		ETHM 455W		ETHM 460W		ETHM 465W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Test Environment	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	450Wp	335Wp	455Wp	339Wp	460Wp	342Wp	465Wp	346Wp
Maximum Power Voltage (Vmp)	33.91V	31.73V	34.06V	31.91V	34.20V	32.07V	34.37V	32.12V
Maximum Power Current (Imp)	13.27A	10.55A	13.36A	10.61A	13.45A	10.67A	13.53A	10.77A
Open-circuit Voltage (Voc)	41.18V	38.87V	41.33V	39.01V	41.48V	39.15V	41.63V	39.29V
Short-circuit Current (Isc)	13.85A	11.19A	13.93A	11.25A	14.01A	11.32A	14.09A	11.38A
Module Efficiency STC (%)	20.85%		21.08%		21.32%		21.55%	
Operating Temperature(°C)	-40°C~+85°C							
Maximum system voltage	1000/1500VDC (IEC)							
Maximum series fuse rating	25A							
Power tolerance	0~+3%							

STC: Irradiance 1000W/m², Cell temperature 25°C, AM1.5.

NOCT: Irradiance 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s.



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