





N-type ETHBD570-590W (144)

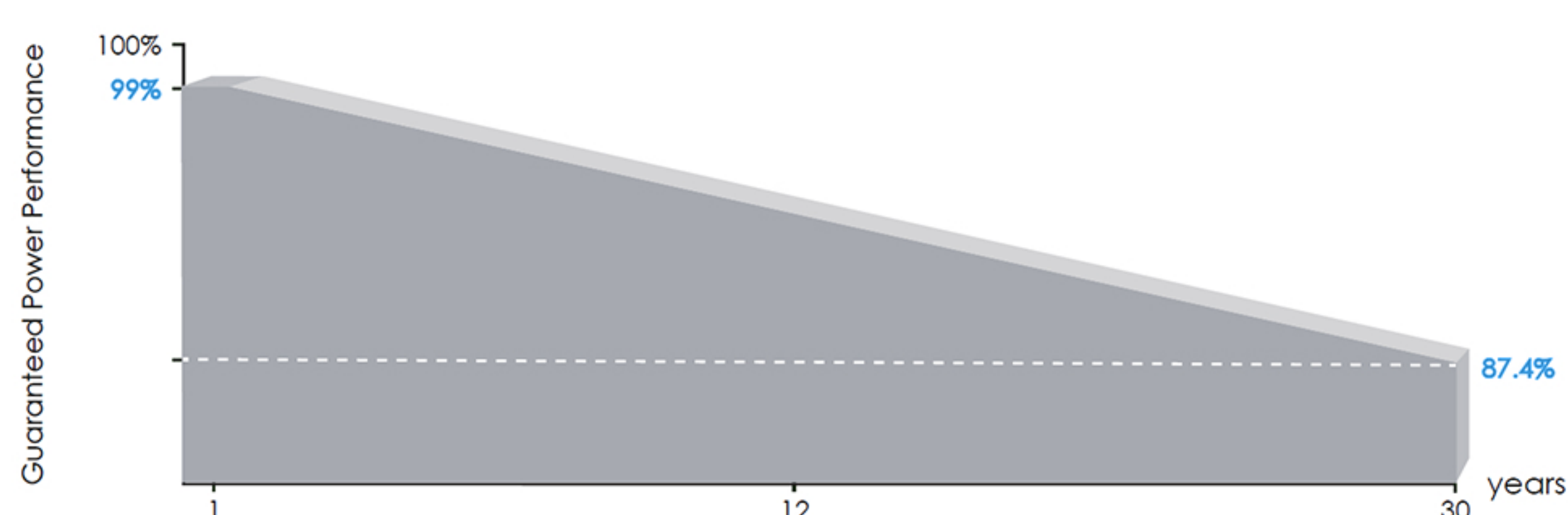
MONO-BIFACIAL
Positive power tolerance of 0~+3%

KEY FEATURES

- 
SMBB 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 N-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).



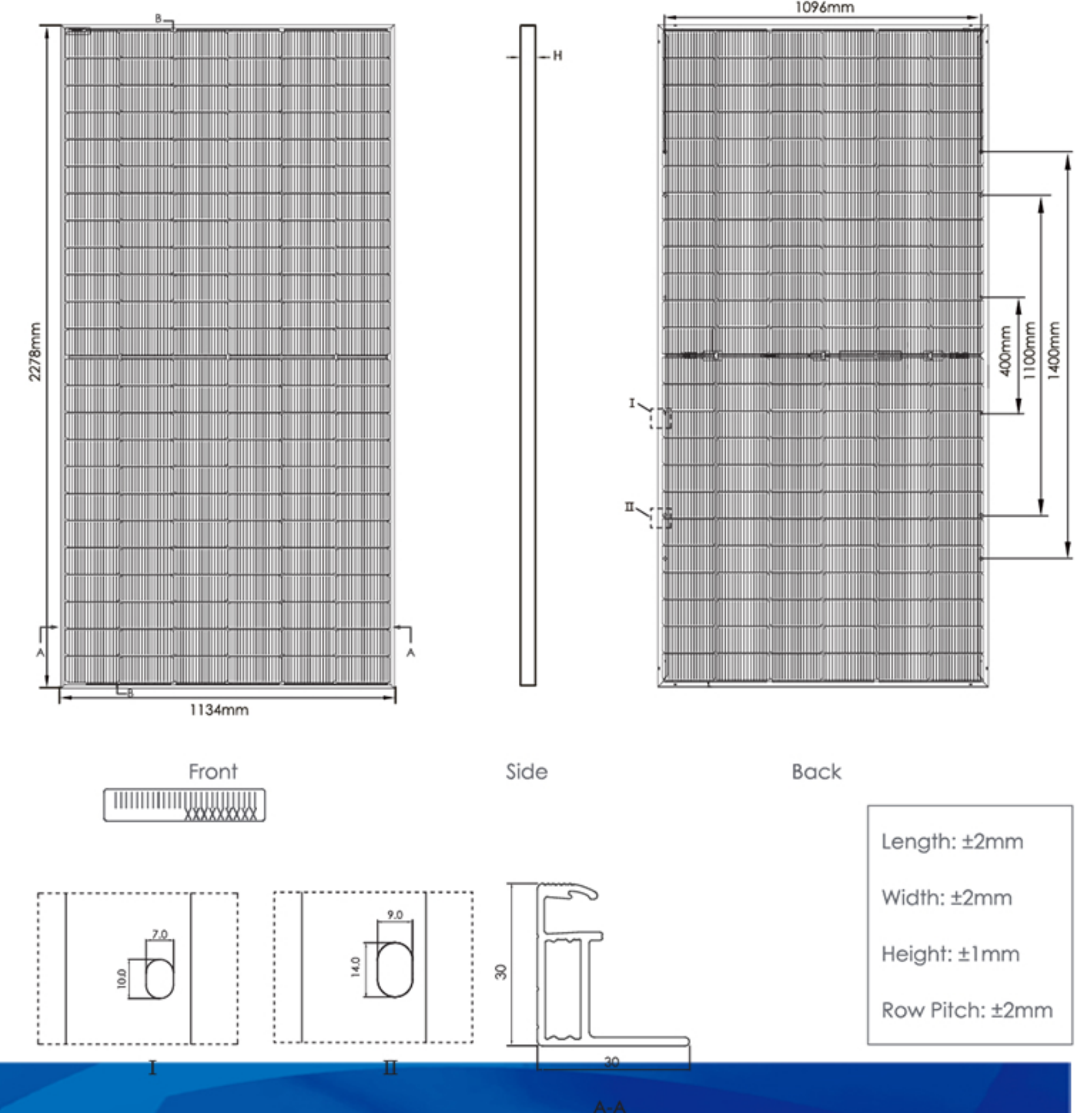
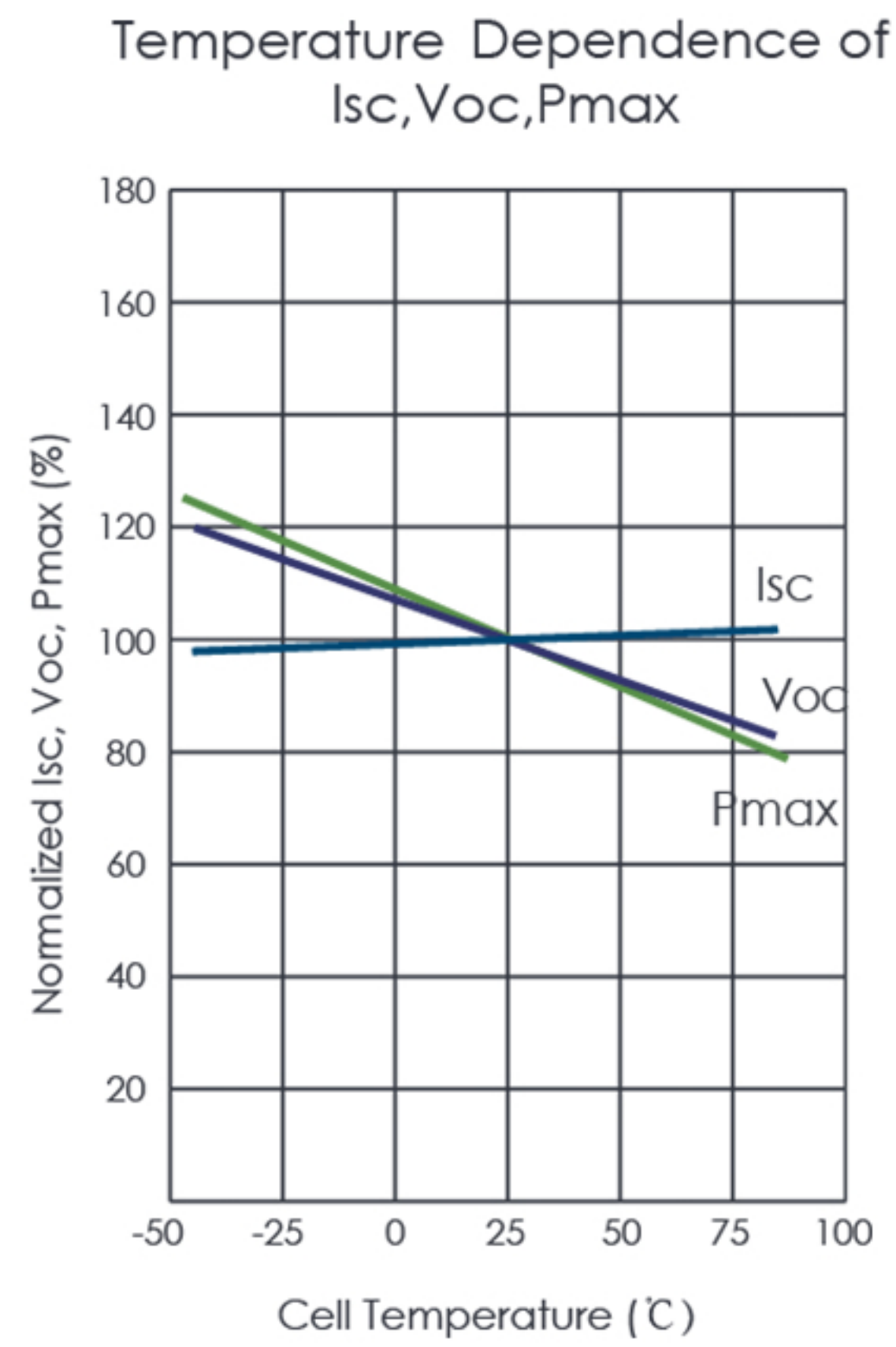
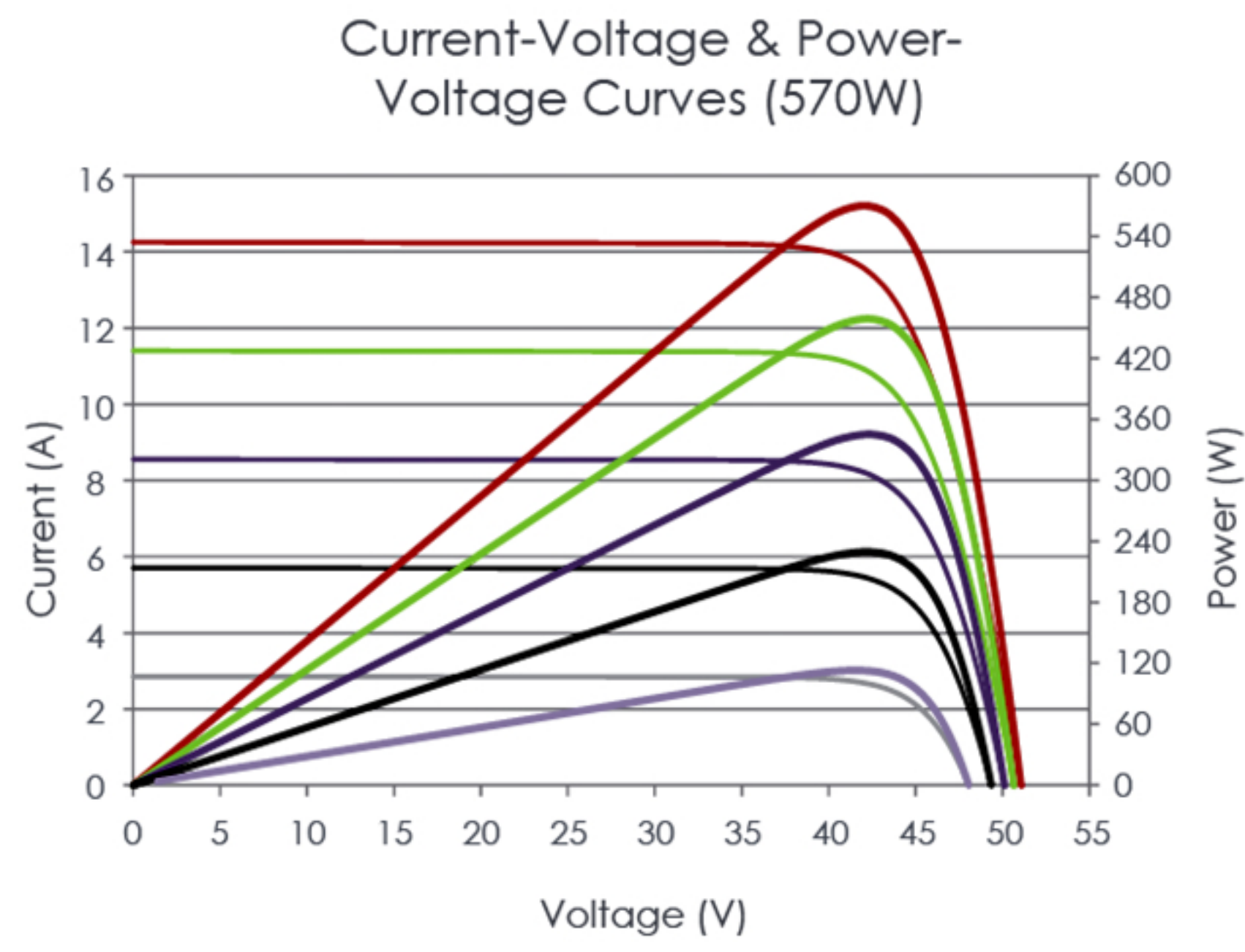
LINEAR PERFORMANCE WARRANTY



- 12 Year Product Warranty
- 30 Year Linear Power Warranty
- 0.40% Annual Degradation Over 30 years



ETHBD570-590W (144)



Packaging Configuration

(Two pallets = One stack)

36pcs/pallets, 72pcs/stack, 720pcs/ 40'HQ Container

Mechanical Data

Cell Type	182 N type Mono-crystalline	No. of cells	144 (2x72)
Dimensions	2278x1134x30mm/35mm	Weight	31.5 kg
Front Glass	2.0mm, Anti-Reflection Coating	Back Glass	2.0mm, Heat Strengthened Glass
Frame	Anodized Aluminium Alloy	Junction Box	IP68 Rated
Output Cables	TUV 1×4.0mm ² ; (+): 300mm , (-): 300mm or Customized Length		

Specifications

Module Type	ETHBD570W		ETHBD575W		ETHBD580W		ETHBD585W		ETHBD590W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	570Wp	429Wp	575Wp	432Wp	580Wp	436Wp	585Wp	440Wp	590Wp	446Wp
Maximum Power Voltage (Vmp)	41.54V	39.65V	41.67V	39.78V	41.80V	39.87V	41.93V	39.95V	42.06V	43.03V
Maximum Power Current (Imp)	13.73A	10.81A	13.81A	10.87A	13.89A	10.94A	13.97A	11.05A	14.05A	11.16A
Open-circuit Voltage (Voc)	50.04V	48.51V	50.17V	48.70V	50.30V	48.89V	50.43V	49.08V	50.56V	49.20V
Short-circuit Current (Isc)	14.41A	11.50A	14.49A	11.55A	14.57A	11.60A	14.65A	11.66A	14.63A	11.72A
Module Efficiency STC (%)	22.07%		22.26%		22.45%		22.65%		22.83%	
Operating Temperature(°C)	-40°C~+85°C									
Maximum system voltage	1000/1500VDC (IEC)									
Maximum series fuse rating	25A									
Power tolerance	0~+3%									
Temperature coefficients of Pmax	-0.29%/°C									
Temperature coefficients of Voc	-0.25%/°C									
Temperature coefficients of Isc	0.045%/°C									
Nominal operating cell temperature (NOCT)	45±2°C									

Bifacial Output-Rearside Power Gain

		ETHBD570W	ETHBD575W	ETHBD580W	ETHBD585W	ETHBD590W
5%	Maximum Power (Pmax)	598Wp	603Wp	608Wp	613Wp	618Wp
	Module Efficiency STC (%)	22.76%	22.97%	23.17%	23.37%	23.57%
15%	Maximum Power (Pmax)	655Wp	660Wp	665Wp	670Wp	675Wp
	Module Efficiency STC (%)	24.93%	25.15%	25.37%	25.60%	25.82%
25%	Maximum Power (Pmax)	712Wp	717Wp	722Wp	727Wp	732Wp
	Module Efficiency STC (%)	27.10%	27.34%	27.58%	27.82%	28.07%

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

NOCT: Irradiance 800W/m², Ambient Temperature 20°C, AM1.5, Wind Speed 1m/s.



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