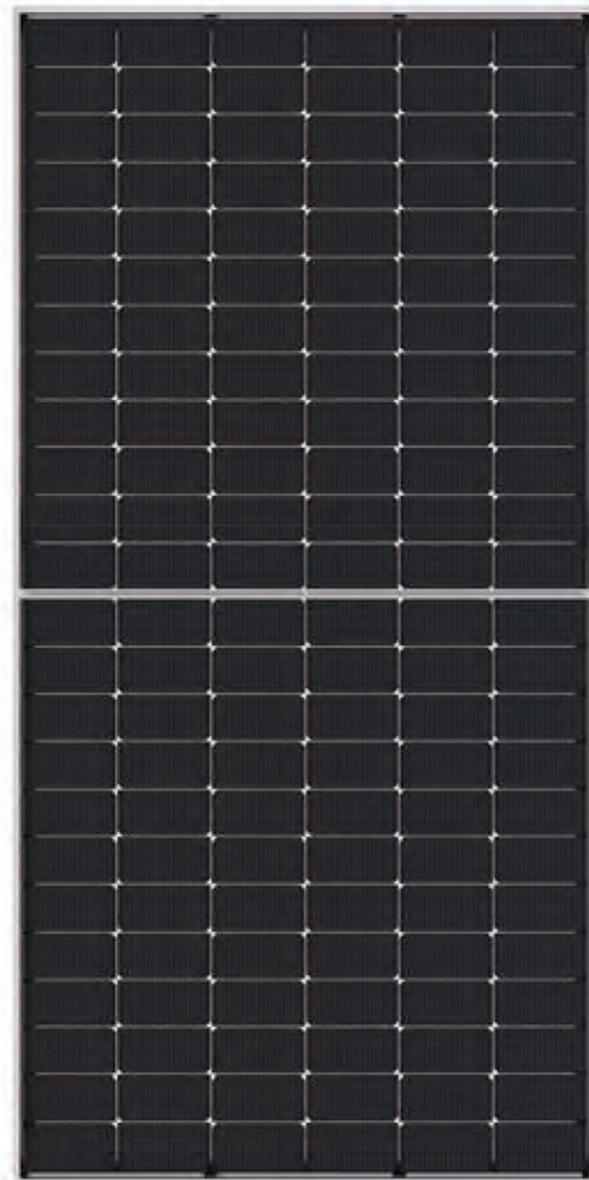


# N-type ETHBD570-590W (144)

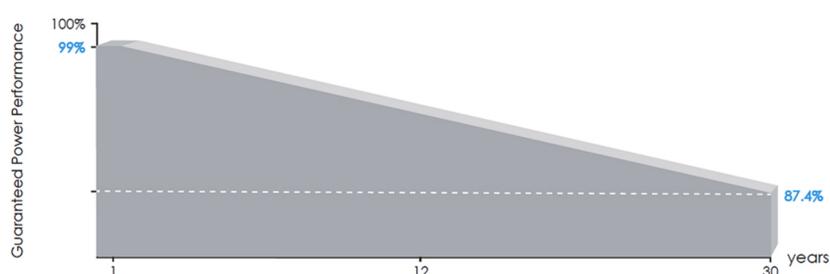
MONO-BIFACIAL  
Positive power tolerance of 0~+3%

## 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.
- Duplex power generation**  
 The power gain on both sides increases with the light received on the back, up to 25%.
- 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).



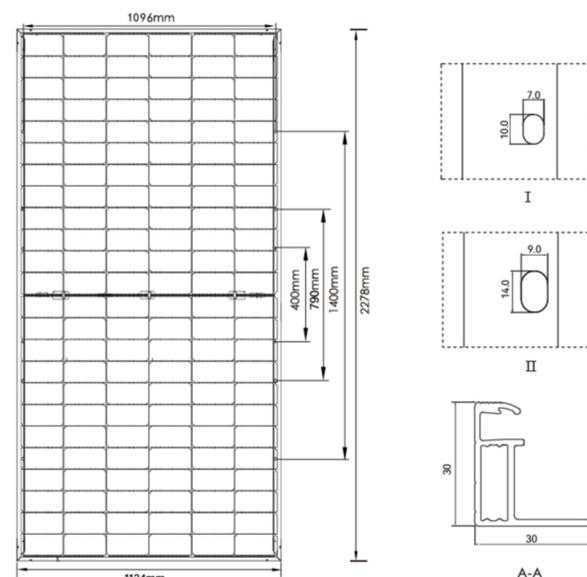
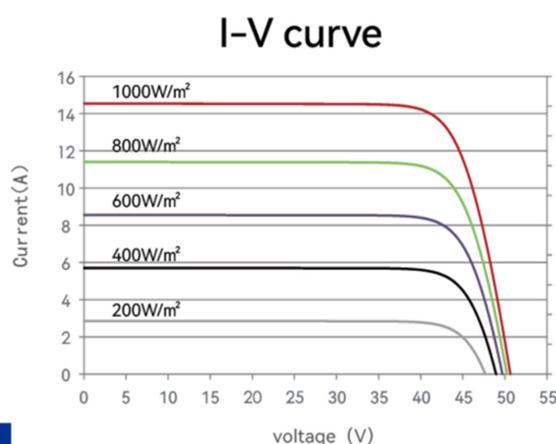
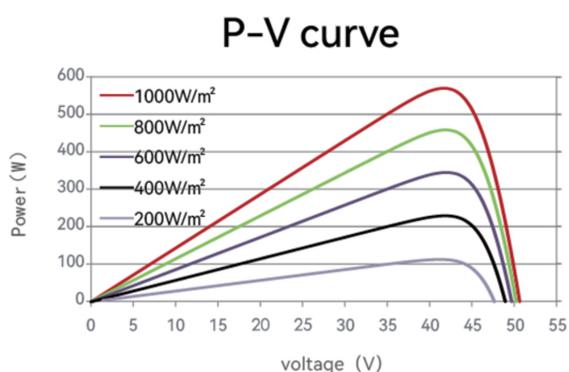
## LINEAR PERFORMANCE WARRANTY



- 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	2278x1134x30 mm	Weight	30.5 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 1x4.0mm <sup>2</sup> ; (+): 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	424.7Wp	575Wp	428.4Wp	580Wp	432.1Wp	585Wp	435.8Wp	590Wp	439.6Wp
Maximum Power Voltage (Vmp)	41.54V	38.44V	41.67V	39.56V	41.80V	38.68V	41.93V	38.80V	42.06V	38.93V
Maximum Power Current (Imp)	13.72A	11.05A	13.80A	11.11A	13.88A	11.17A	13.95A	11.23A	14.03A	11.29A
Open-circuit Voltage (Voc)	50.04V	46.90V	50.17V	47.02V	50.30V	47.15V	50.43V	47.27V	50.56V	47.39V
Short-circuit Current (Isc)	14.39A	11.59A	14.47A	11.65A	14.55A	11.71A	14.62A	11.77A	14.70A	11.83A
Module Efficiency STC (%)	22.07%		22.26%		22.45%		22.65%		22.84%	
Operating Temperature(°C)	-40°C~+85°C									
Maximum system voltage	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 Power Gain ( For 580W )

	10%	15%	20%	25%	30%
Backside Power Gain(%)	10%	15%	20%	25%	30%
Maximum Power(Pmax/W)	638.0	667.0	696.0	725.0	754.0
Open Circuit Voltage(Voc/V)	52.00	52.00	52.10	52.10	52.10
Short Circuit Current(Isc/A)	15.81	16.53	17.24	17.96	18.68
Maximum Power Voltage(Vmp/V)	42.69	42.69	42.70	42.70	42.70
Maximum Power Current(Imp/ A)	14.94	15.62	16.30	16.98	17.66

STC: Irradiance 1000W/m<sup>2</sup>, Cell temperature 25°C, AM1.5.

NOCT: Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C,AM1.5, Wind Speed 1m/s.



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