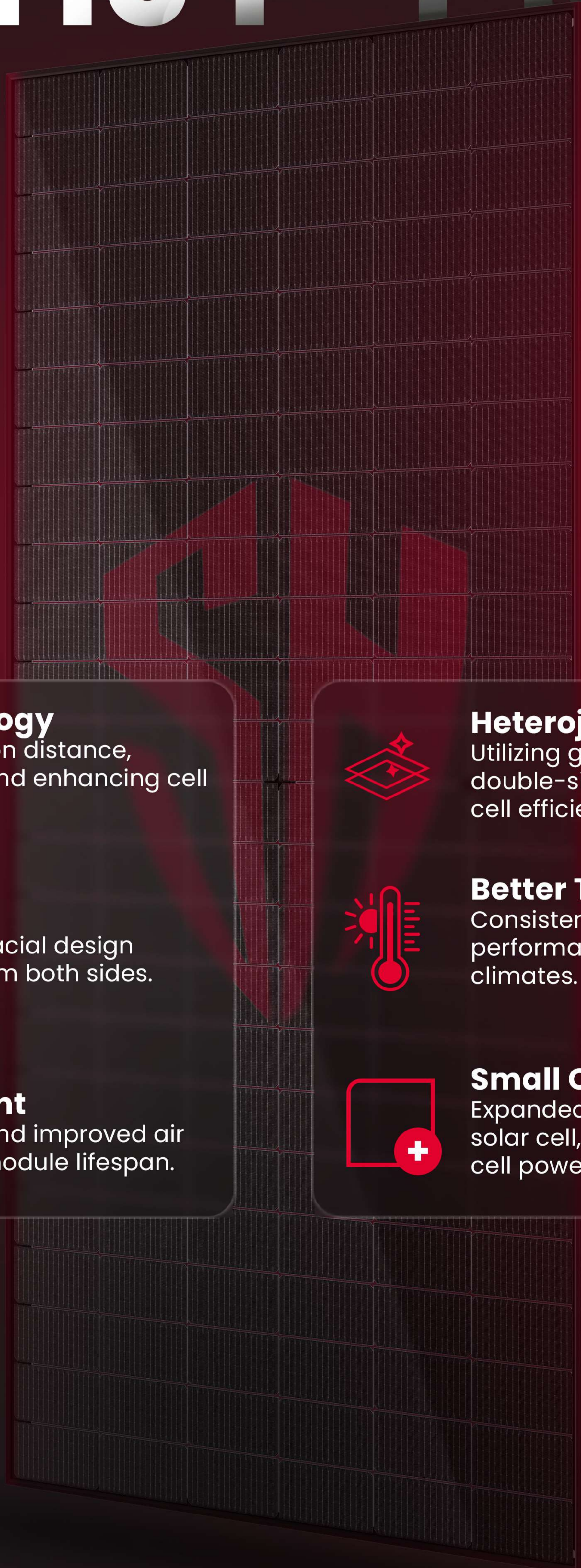


# HERO<sup>®</sup>PV

## 580HJT-PRO2

**SMBB  
DESIGN****SMBB design Technology**

Reduced current transmission distance, minimizing resistive losses and enhancing cell efficiency.

**UP TO  
95%****Up to 95% Bifacility**

The inherent symmetrical bifacial design boosts energy production from both sides.

**Sealing with PIB sealant**

Enhanced water resistance and improved air impermeability, prolonging module lifespan.

**Heterojunction Technology**

Utilizing gettering techniques alongside double-sided ultra-crystalline silicon to optimize cell efficiency and double power output.

**Better Temperature Coefficient**

Consistently reliable power generation performance, particularly advantageous in hot climates.

**Small Chamfer Design**

Expanded power generation surface area on the solar cell, resulting in a 1% increase in individual cell power output.



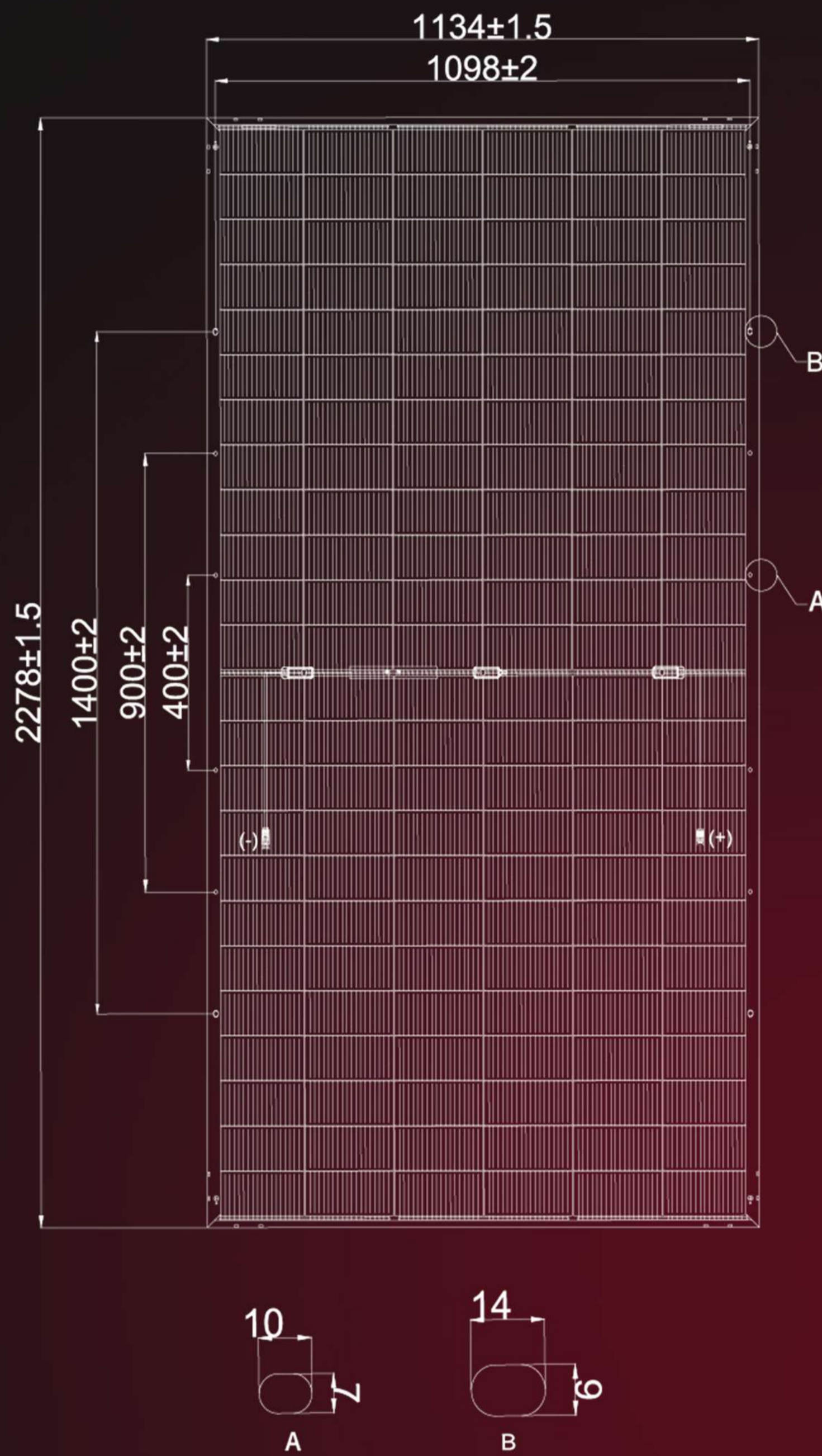
Materials and  
workmanship warranty



Linear power  
warranty

## Engineering Drawings

Unit: mm



## Electrical Characteristics (STC\*)

HS-182-B144	DS580	DS585	DS590	DS595	DS600
Maximum Power (Pmax)	580W	585W	590W	595W	600W
Module Efficiency (%)	22.45%	22.65%	22.84%	23.03%	23.23%
Optimum Operating Voltage (Vmp)	45.00V	45.21V	45.42V	45.63V	45.84V
Optimum Operating Current (Imp)	12.89A	12.94A	12.99A	13.04A	13.09A
Open Circuit Voltage (Voc)	53.92V	54.12V	54.31V	54.50V	54.70V
Short Circuit Current (Isc)	13.35A	13.40A	13.45A	13.50A	13.55A
Operating Module Temperature	-40 to +85 °C				
Maximum System Voltage	DC1500V (IEC)				
Maximum Series Fuse	25A				
Power Tolerance	0~+5W				
Bifaciality	85% ± 5%				

 \*STC: Irradiance 1000 W/m<sup>2</sup>, cell temperature 25 °C, AM=1.5. Tolerance of Pmax is within +/- 3%.

## BSTC\*\*

	640W	645W	650W	655W	660W
Maximum Power (Pmax)	640W	645W	650W	655W	660W
Optimum Operating Voltage (Vmp)	45.00V	45.21V	45.42V	45.63V	45.84V
Optimum Operating Current (Imp)	14.23A	14.27A	14.32A	14.36A	14.40A
Open Circuit Voltage (Voc)	53.92V	54.12V	54.31V	54.50V	54.70V
Short Circuit Current (Isc)	14.73A	14.77A	14.82A	14.86A	14.91A

 \*\*BSTC: Front side irradiation 1000W/m<sup>2</sup>, back side reflection irradiation 135W/m<sup>2</sup>, AM=1.5, ambient temperature 25 °C.

## Temperature Characteristics

Nominal Operating Cell Temp. (NOCT)	44 °C ± 2 °C
Temperature Coefficient of Pmax	-0.26%/°C
Temperature Coefficient of Voc	-0.24%/°C
Temperature Coefficient of Isc	0.04%/°C

## Safety & Warranty

Safety Class	Class II
Product Warranty	30 yrs Workmanship
Performance Warranty	30 yrs Linear Warranty*

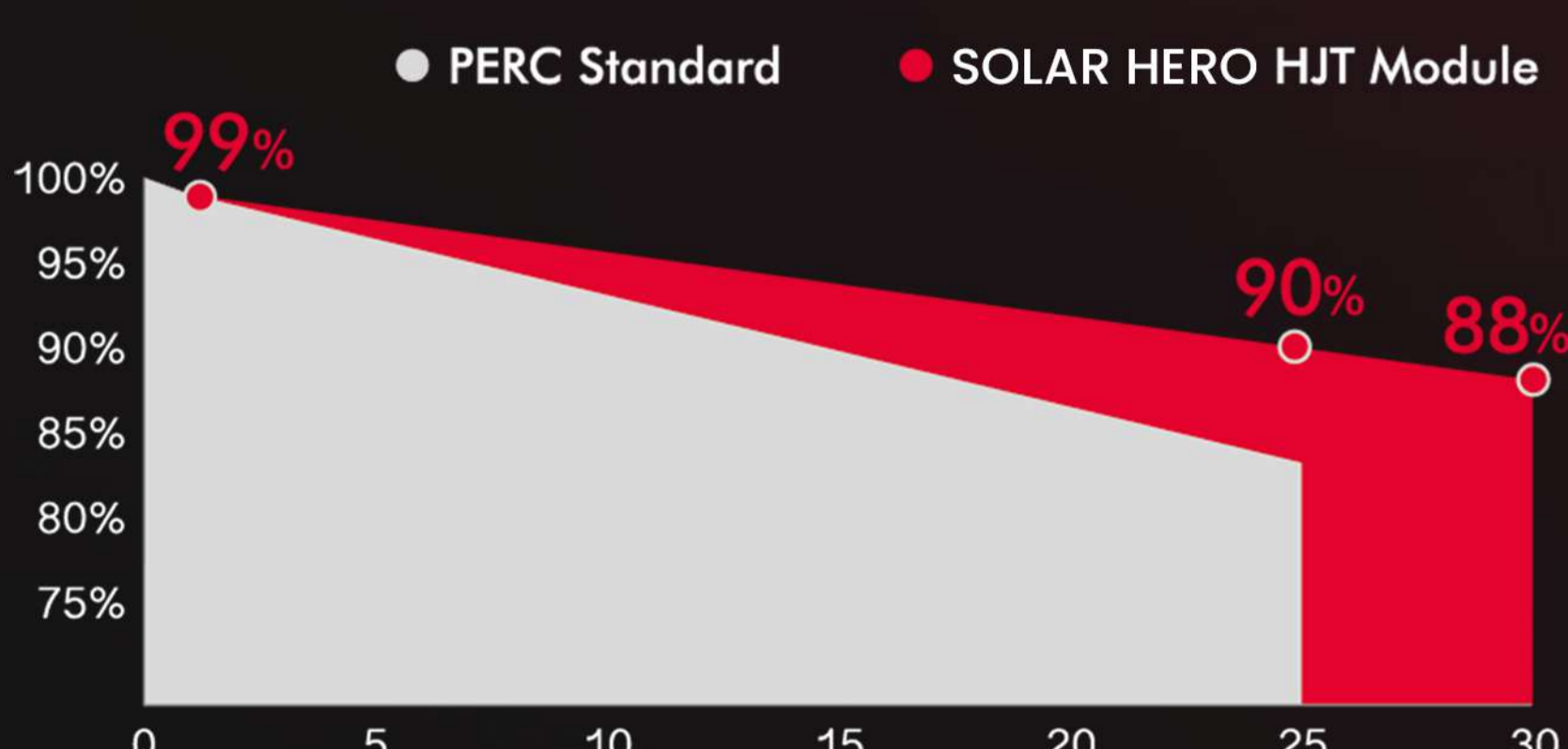
\* Less than 1% attenuation in the 1st year, the annual attenuation from the 2nd year is no more than 0.375%, and the power is no less than 88% until the 30th year.

## Mechanical Characteristics

Cell Type	HJT Mono 182 × 91.75mm
Cell Connection	144 (6 × 24)
Module Dimension	2278 × 1134 × 30 mm
Weight	32 kg
Junction Box	IP68
Output Cable	4mm <sup>2</sup> , 300mm in length, length can be customized / UV resistant
Connectors Type	MC4 original / MC4 compatible
Frame	Anodised aluminum alloy
Front Load	5400 Pa
Rear Load	2400 Pa
Glass Thickness	Double glass, 2.0mm

## Shipping Configurations

Container Size	HC
Pallets Per Container	40'
Modules Per Pallet (pcs)	20
Modules Per Container (pcs)	36
	720



\* Refer to HUASUN standard warranty for details

Measurement tolerance of the rated power 3% depending on equipment. The specifications and average values can vary slightly. A possible light-induced degradation after commissioning is not taken into account.