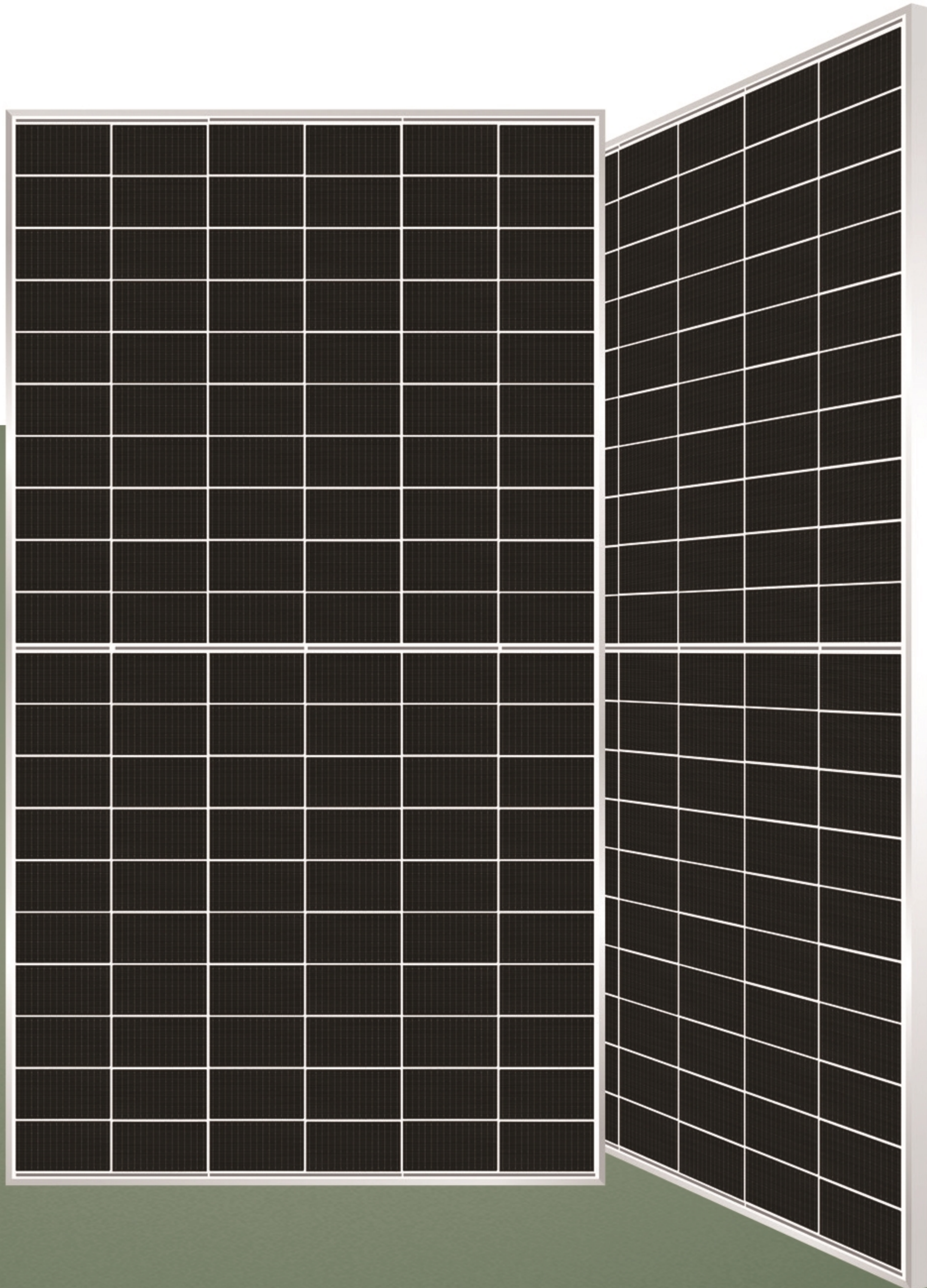




Legend CG-210-120

120-cell Bifacial HJT Half Cell
Double-glass Solar Module

630W~650W



15 YRS
Product Warranty

30 YRS
Linear Power Warranty



Higher yield

Only four steps for the core process, to reduce labor, operation and maintenance costs.



Higher power generation

Double-sided rate up to 95%, the temperature coefficient is $-0.24\%/^{\circ}\text{C}$, lower the attenuation rate, no PID and LID effect.



Higher ROI

Double-sided symmetrical structure reduces the mechanical stress of the silicon wafer, improves the whole wafer ratio, and the low temperature process is conducive to thinning.



Higher efficiency

HJT cells mainly absorb infrared light, open the ceiling of theoretical conversion efficiency superimposed with perovskite cells.



Less heat damage

The ambient temperature of the whole process is below 200°C , and the low temperature process reduces heat damage and saves fuel.



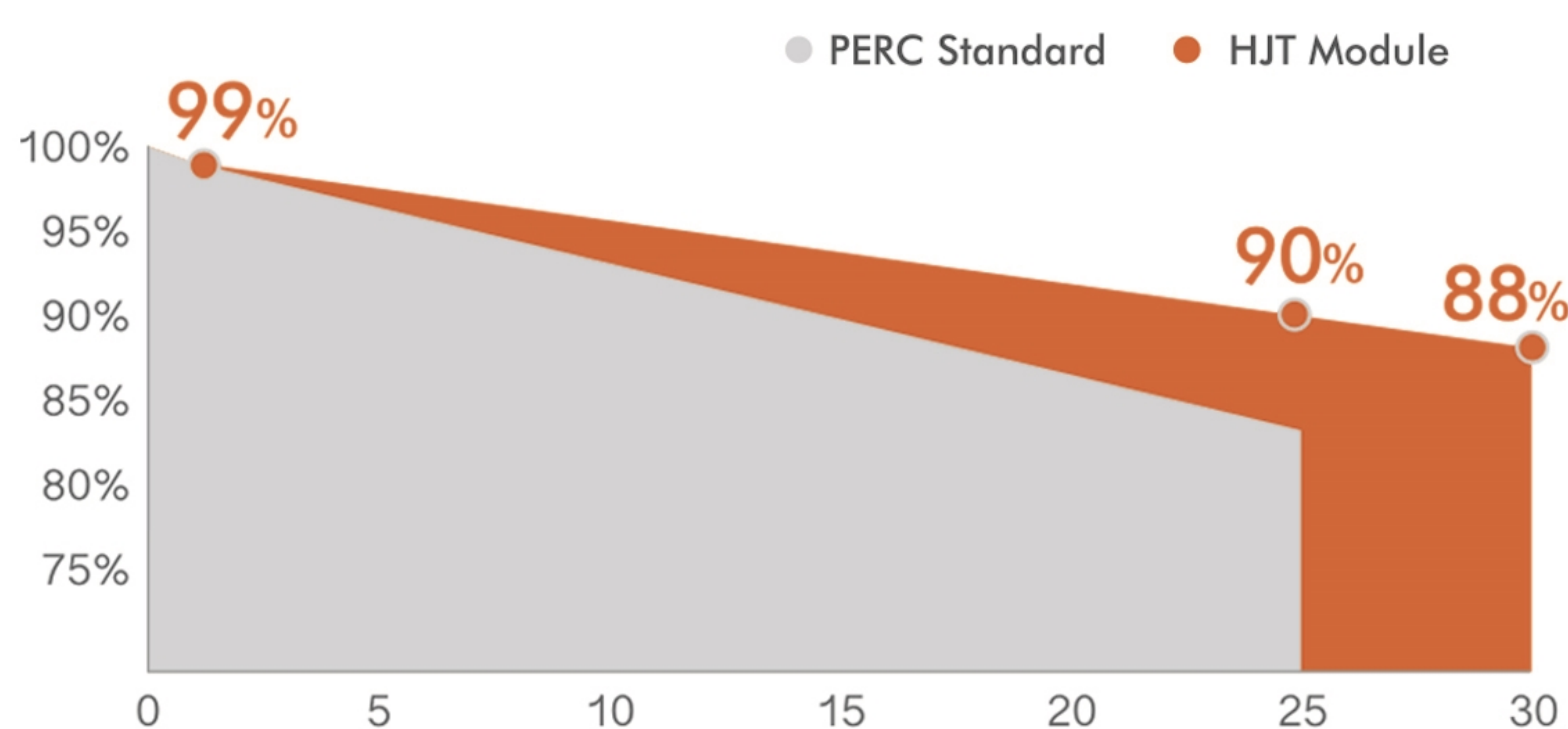
Lower carbon emissions

Higher conversion efficiency, ultra-thin applications, and low temperature manufacturing processes reduce carbon emissions from single silicon wafers.

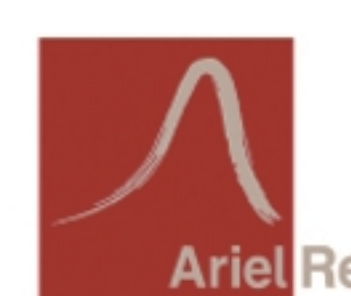


Suitable for Utility project

Lower BOS cost, lower LCOE.



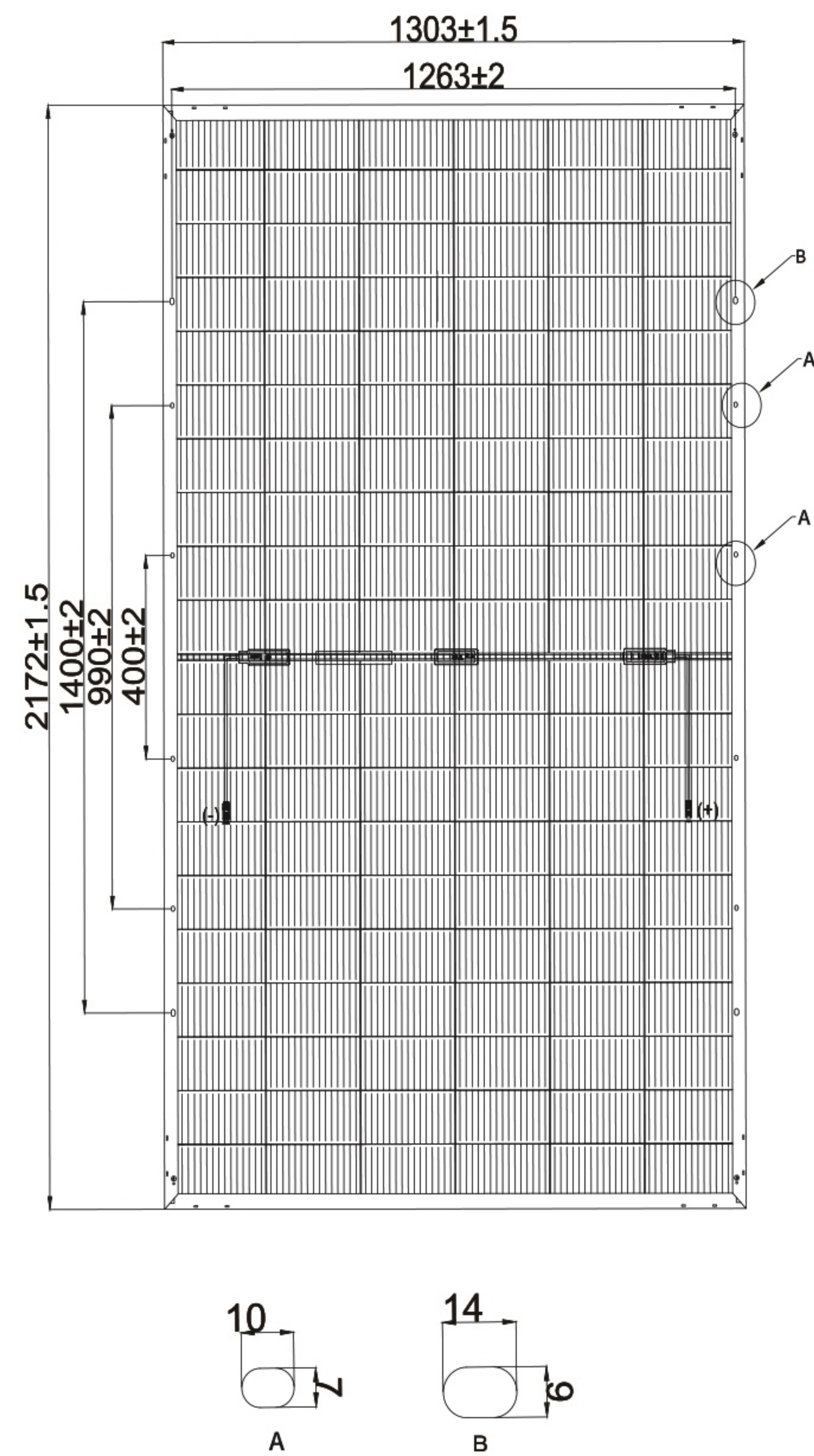
* Refer to standard warranty for details



The specification and key features described in this datasheet may deviate slightly and are not guaranteed. Chuangu Solar the right to make any adjustment to the information described herein at any time without notice. Please always obtain the latest version of the datasheet which shall be duly incorporated into the binding contract made by the parties governing all transactions related to the purchase and sale of the products described herein.

Engineering Drawings

Unit: mm



Electrical Characteristics (STC*)

Maximum Power	W	630	635	640	645	650
Maximum System Voltage	V	1,500				
Open Circuit Voltage	V	45.30	45.48	46.65	45.82	45.99
Short Circuit Current	A	17.37	17.43	17.49	17.55	17.61
Optimum Operating Voltage	V	38.03	38.19	38.35	38.51	38.67
Optimum Operating Current	A	16.57	16.63	16.69	16.75	16.81
Conversion Efficiency	%	22.26	22.44	22.61	22.79	22.97
Fuse Current	A	35				
Operating Module Temperature		-40~+85°C				
Power Tolerance	W	0~+5				
Bifaciality	%	95				

*STC:Irradiance 1000 W/m², cell temperature 25°C,AM=1.5. Tolerance of Pmax is within +/-3%.

BSTC**

Maximum Power	W	702	708	713	719	725
Open Circuit Voltage	V	45.30	45.48	46.65	45.82	45.99
Short Circuit Current	A	19.36	19.43	19.50	19.56	19.63
Optimum Operating Voltage	V	38.03	38.19	38.35	38.51	38.67
Optimum Operating Current	A	18.47	18.54	18.60	18.67	18.74

**BSTC:Front side irradiation 1000W/m², back side reflection irradiation 135W/m², AM=1.5, ambient temperature 25°C.

Temperature Characteristics

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

Safety & Warranty

Safety Class	Class II
Product Warranty	15 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	mm	HJT Mono 210×105mm
Cell Connection		120 (6*20)
Module Dimension	mm	2172*1303*35
Weight	kg	35.3
Junction Box		IP68
Output Cable		4mm ² ,300mm in length, length can be customized/UV resistant
Connectors Type		MC4 original / MC4 compatible
Frame		Anodised aluminum alloy
Front Load	Pa	5400
Rear Load	Pa	2400
Glass Thickness		Double glass, 2.0mm

Shipping Configurations

Container Size		40HC
Pallets Per Container	pcs	18
Modules Per Pallet	pcs	31
Modules Per Container		558

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