

# AK iTopper

N-Type TOPCon Module

## 430-450W

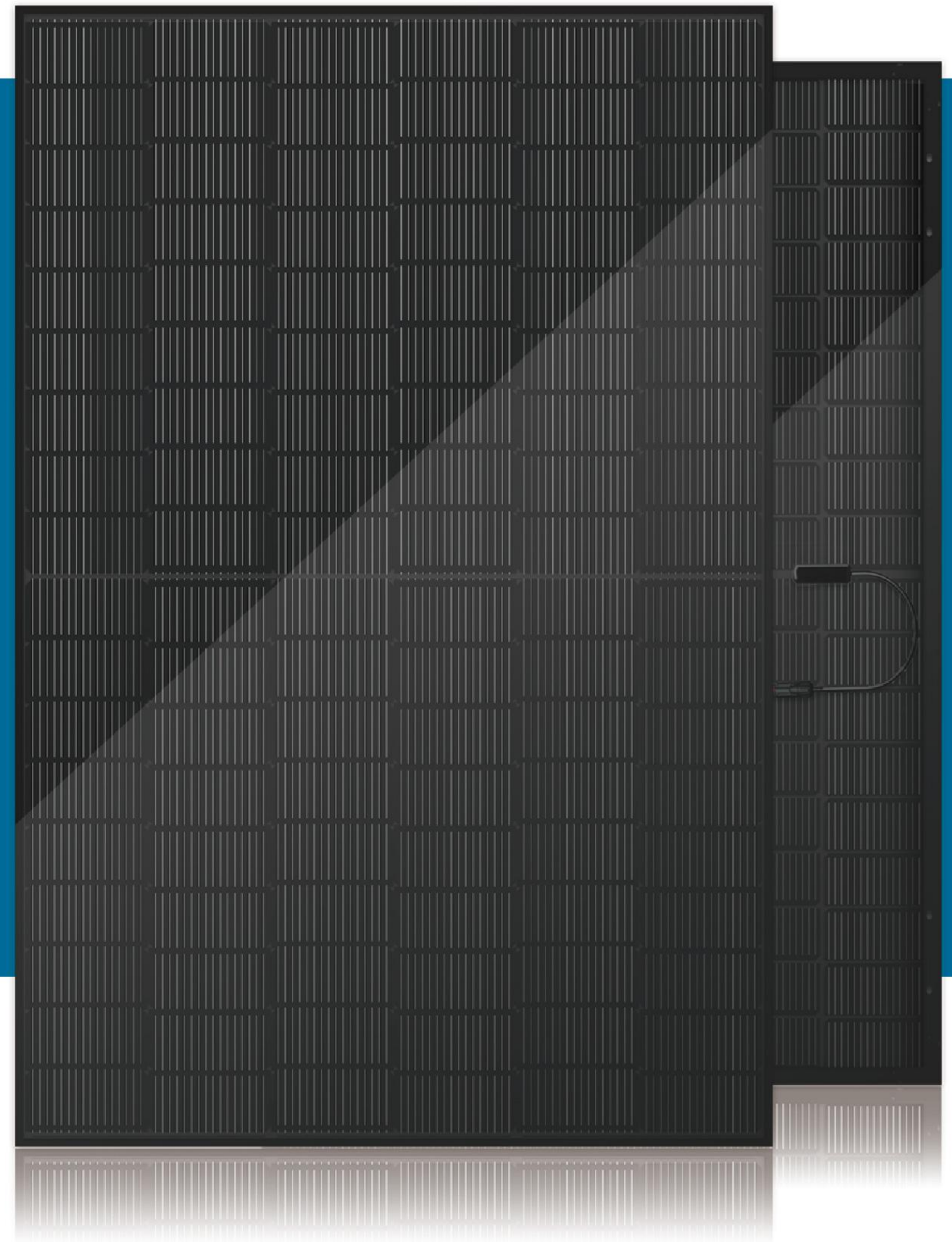
Max. Power Output

## 0~+3%

Power Tolerance

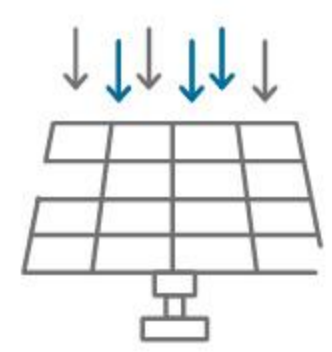
## 22.52%

Module Efficiency



TOPCon Half-cut Bifacial Dual-Glass Module(16BB)  
Module type: SKB609TDGDC

### Product advantages



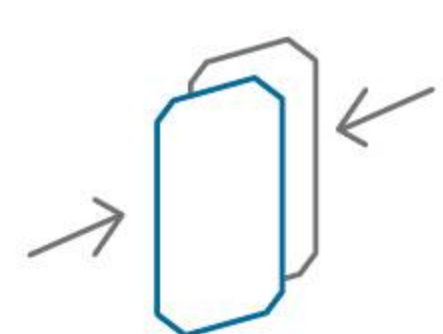
**TOPCon technology for lower LCOE**  
The lower temperature coefficient and better low irradiance performance of TOPCon technology can effectively reduce LCOE.



**Fire class A, harsh environment adaptability**  
The module adopt a double glass structure, which can adapt to all kinds of harsh environment, and the fire rating can reach Class A.



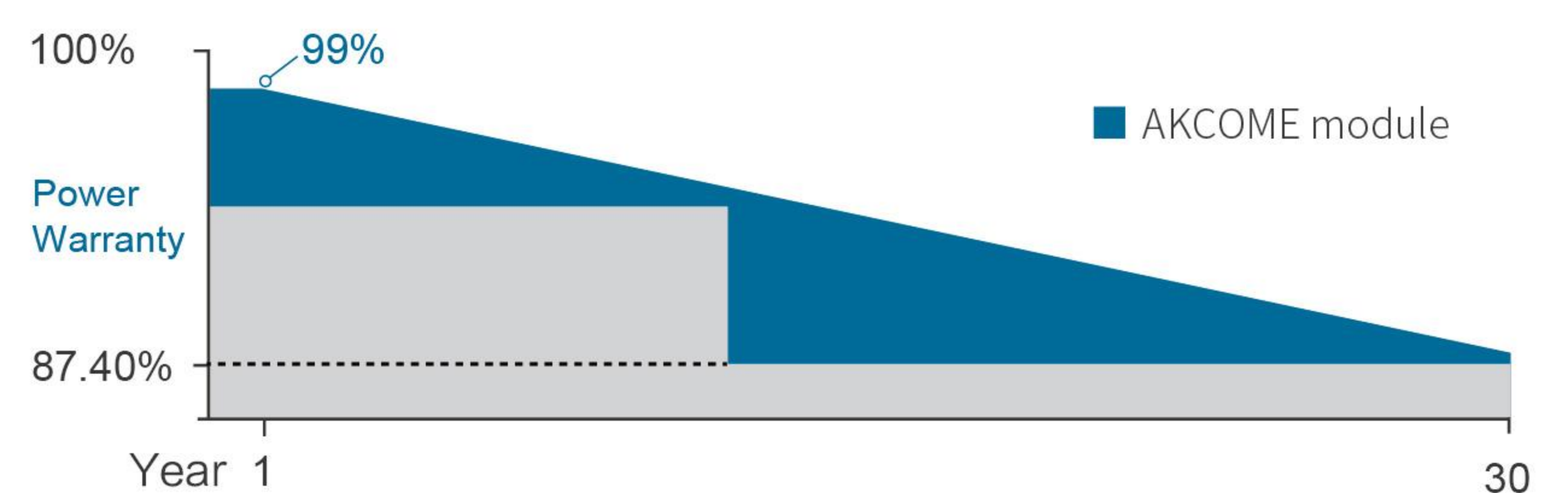
**30-year power warranty**  
The average life of dual-glass module is 30 years, 5 years longer than that of single-glass modules.



**Double-sided power generation, higher income**  
The dual-glass module has a bifaciality of up to 80% and a power generation gain of 5%-25% on the back side.

### LINEAR PERFORMANCE WARRANTY

**15** Years product warranty on materials and workmanship  
**30** Years linear power output warranty



30 years decay  $\leq$  **0.40%** annually on average

### CERTIFICATES

ISO 9001: 2015  
Quality Management System

IEC 61215 / IEC 61730

ISO 14001: 2015  
Environmental Management System

ISO 45001 : 2018  
Safety Management System

\*Certification requirements vary in different markets, please consult with Akcome Optronics sales team for appropriate certification.



## ELECTRICAL PARAMETERS @ STC\*

Max. Power Output Pmax (W)	430	435	440	445	450
Power Tolerance	0~+3%	0~+3%	0~+3%	0~+3%	0~+3%
Max. Power Voltage Vmp (V)	32.45	32.54	32.62	32.70	32.79
Max. Power Current Imp (A)	13.25	13.37	13.49	13.61	13.73
Open Circuit Voltage Voc (V)	39.10	39.20	39.30	39.40	39.50
Short Circuit Current Isc (A)	14.01	14.14	14.26	14.39	14.51
Module Efficiency(%)	21.52	21.77	22.02	22.27	22.52

\*STC (Standard Test Condition): Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass 1.5, Measurement Tolerance (±3.0%).

## BSTC\*\*

Power Gains	5%	10%	15%	20%	25%
Max. Power Output Pmax (W)	462	484	506	528	550
Max. Power Voltage Vmp (V)	32.62	32.62	32.62	32.62	32.62
Max. Power Current Imp (A)	14.16	14.84	15.51	16.19	16.86
Open Circuit Voltage Voc (V)	39.30	39.30	39.30	39.30	39.30
Short Circuit Current Isc (A)	14.98	15.69	16.40	17.11	17.83

\*\*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.

## MECHANICAL PARAMETERS

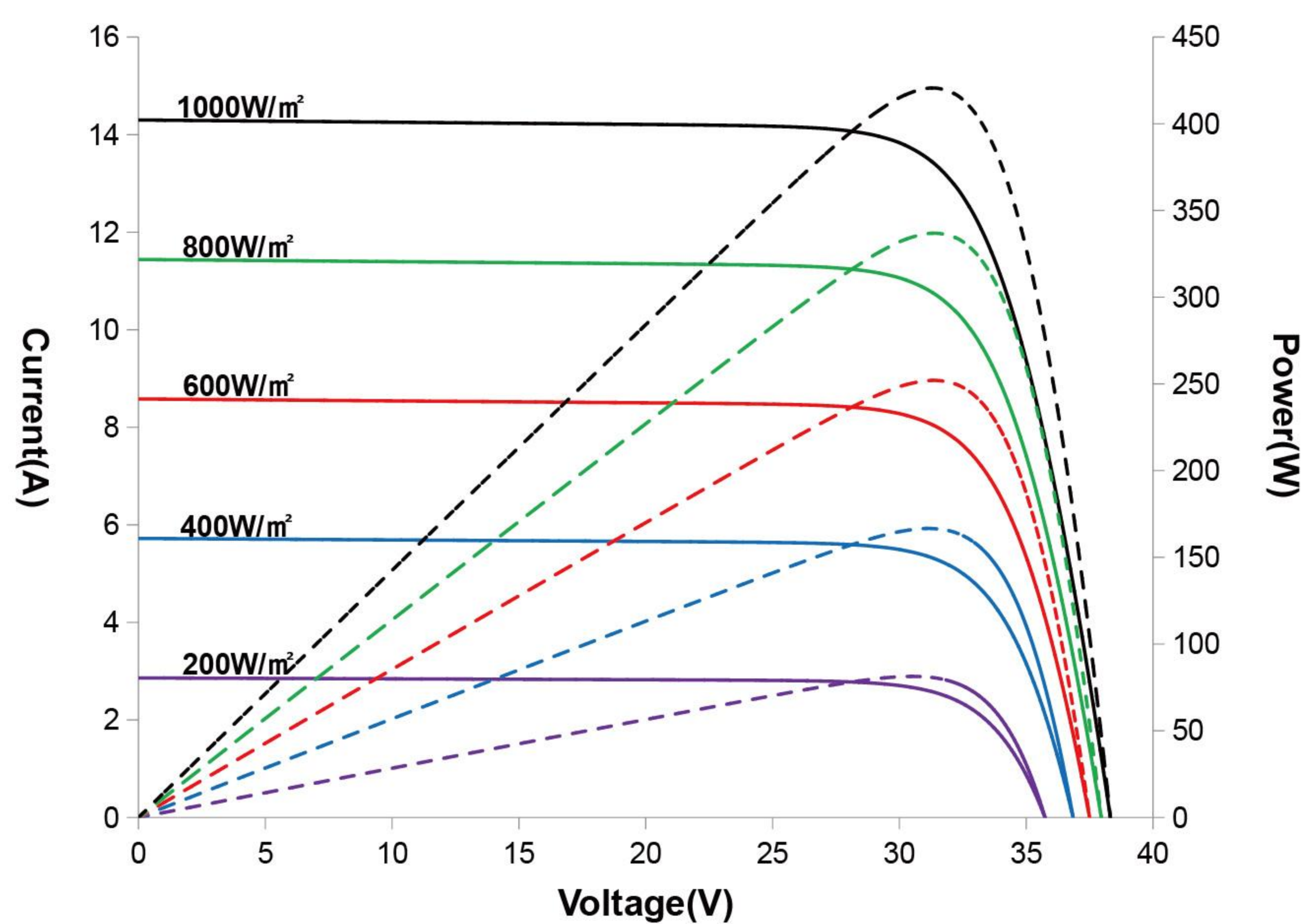
Cell Type	TOPCon 182x93.4mm
Number of Cells	108pcs(6x18)
Dimensions(L*W*H)	1762x1134x30mm
Weight	25.1kg
Frame	Anodised Aluminum
Junction Box	IP68, 3 bypass diodes
Cable,Length	4.0mm <sup>2</sup> , 300mm

## TEMPERATURE COEFFICIENTS

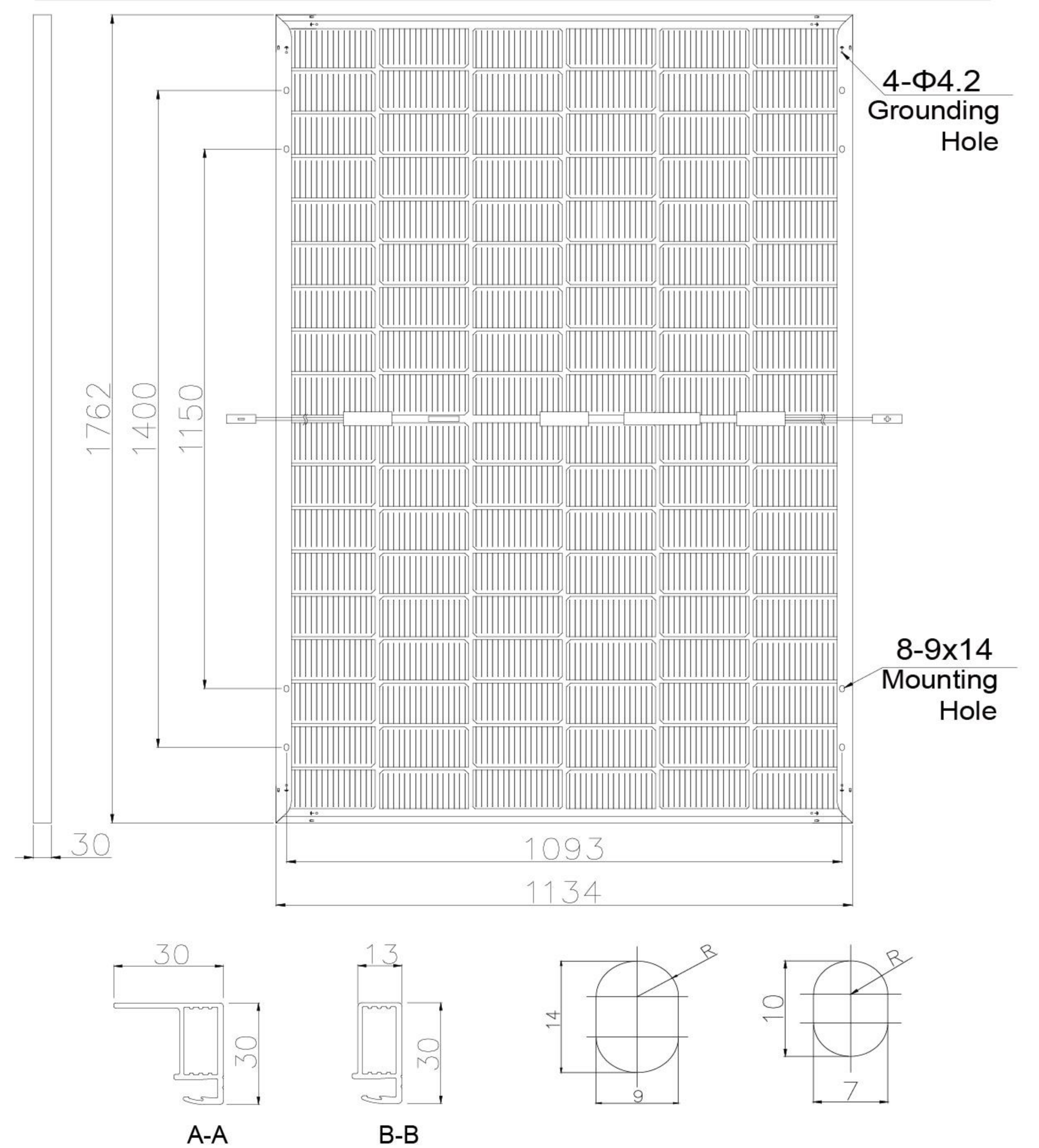
Temperature Coefficients of Pmp	-0.29%/°C
Temperature Coefficients of Voc	-0.25%/°C
Temperature Coefficients of Isc	+0.046%/°C

## I-V CURVES

Test temperature 25°C



## ASSEMBLY DRAWING (Unit:mm)



## OPERATING CONDITION

Maximum System Voltage(V)	1500(DC)
Operating Temperature(°C)	-40~+85
Max.Wind Load /Snow Load(Pa)	2400/5400
Max.Series Fuse Rating(A)	30
Fire Rating	Class A
Bifaciality	80±5%
NOCT	45°C±2

## PACKAGE INFORMATION

Container 40'HQ	936pcs
Quantity / Pallet	36pcs
Size: 1790×1120×1254mm; Net weight: 903.6kg; Gross weight: 949.6kg	

Irradiance: AM1.5, 1000W/m<sup>2</sup>

