

Make Solar Energy More Efficient!



182-16BB Heterojunction Solar Cells

✓ Heterojunction Cell Technology

A heterojunction cell combines all the advantages of crystalline and thin-film solar technologies in a single hybrid structure.

✓ Higher Bifacial Efficiency

The Bifacial efficiency rate is as high as 85%, the output of power is about 3%-6% higher than that of bifacial PERC and TopCon cells solar module.

✓ Excellent weak light performance

Under the lower irradiation intensity, HJT cells have an average of 1-2% more power per watt than PERC bifacial cells.

✓ The Highest Efficiency

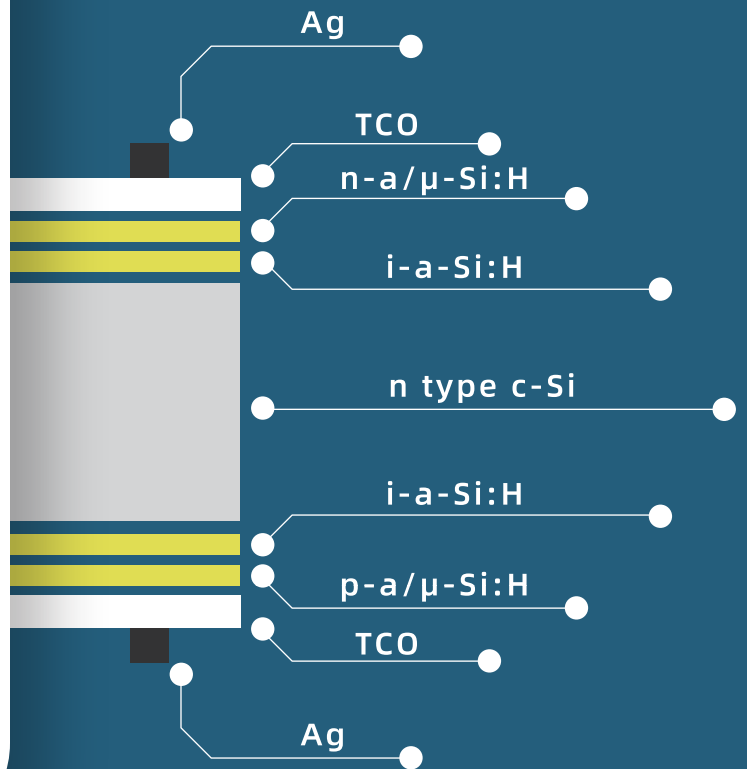
Use 182mm N-Type silicon wafer, the highest power up to 4.16W, the efficiency up to 25.2%.

✓ Higher efficiency at high temperature

The lowest temperature coefficient up to $-0.24\%/^{\circ}\text{C}$, at higher temperature, the output of HJT cell per W is about 0.6-3.9% higher than that of bifacial PERC cell.

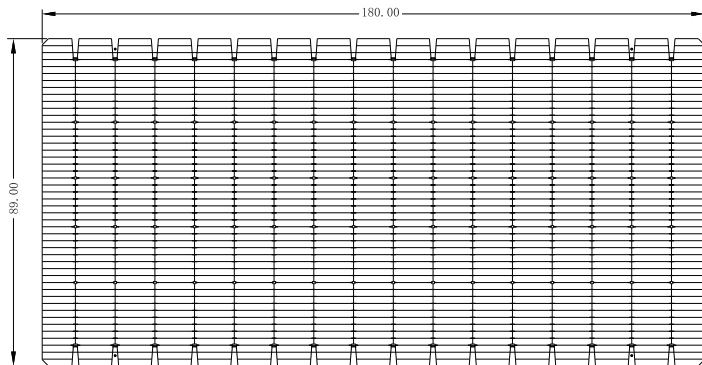
✓ No PID

Battery surface is TCO, charge will not produce polarization phenomenon on the Cells surface TCO, no PID phenomenon

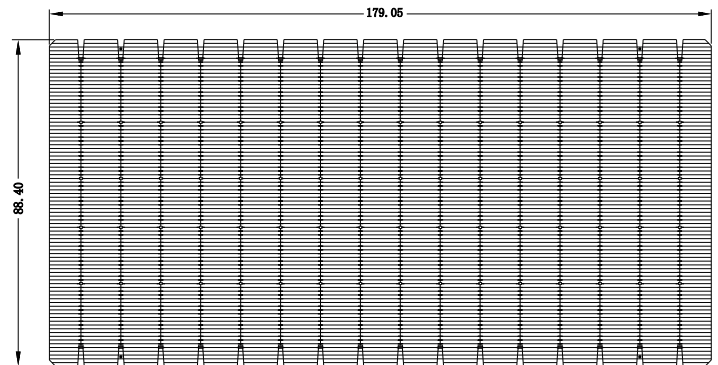


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The Cells Front



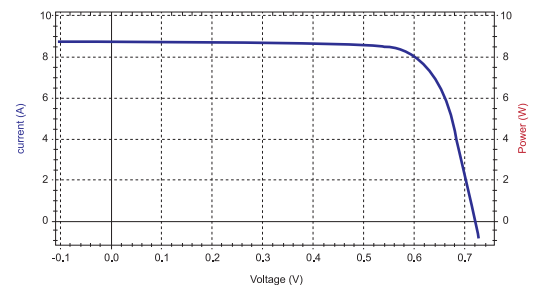
The Cells Back



Electrical Performance Parameters

Efficiency Range	Pmpp (W)	Isc (A)	Voc (V)	Eff (%)
182M-24.6	4.06	6.46	0.747	24.6
182M-24.7	4.08	6.47	0.748	24.7
182M-24.8	4.09	6.48	0.748	24.8
182M-24.9	4.11	6.49	0.748	24.9
182M-25.0	4.13	6.50	0.749	25.0
182M-25.1	4.14	6.51	0.749	25.1
182M-25.2	4.16	6.52	0.749	25.2
182M-25.3	4.18	6.53	0.750	25.3

I-V Curves

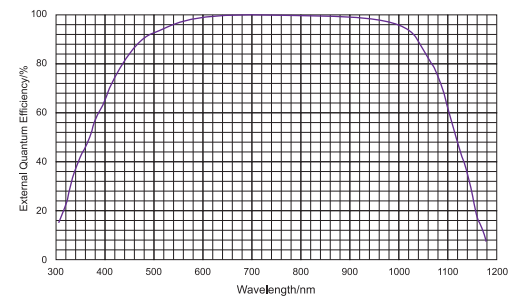


The amplitude of Voc (Isc) decreasing with irradiation intensity based on STC (1000W/m², AM1.5, 25°C).

Irradiation Dependence Characteristics

Irradiation (W/m ²)	Voc	Isc
1000	1.0	1.0
900	0.99	0.9
800	0.99	0.8
600	0.98	0.6
400	0.96	0.4

Spectral Response

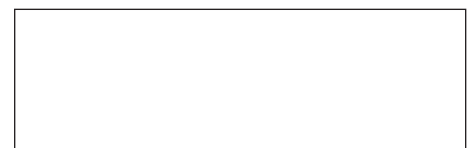


Temperature Coefficient

Voc (%/K)	-0.27
Isc	+0.055
Pmax (%/K)	-0.26

Mechanical data and Design

Dimension	182mm×91mm±0.25mm
Thickness	130±30µm
Front (-)	16×0.04mm Busbar(Silver), Blue layer (TCO) (In order to improve efficiency, it will be continuously optimized and upgraded)
Back (+)	16×0.04mm Busbar(Silver), Blue layer (TCO) (In order to improve efficiency, it will be continuously optimized and upgraded)



*The specifications and key features contained in this datasheet may deviate slightly from our actual products due to the ongoing innovation and product enhancement.