

ZEHJT-210-12BB

Heterojunction Solar Cells



Super 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 93-95%, the output of HJT cells per watt is about 3%-6% higher than that of bifacial PERC cells.



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 210mm N-Type silicon wafer, the highest power up to 11W, the efficiency up to 25%.



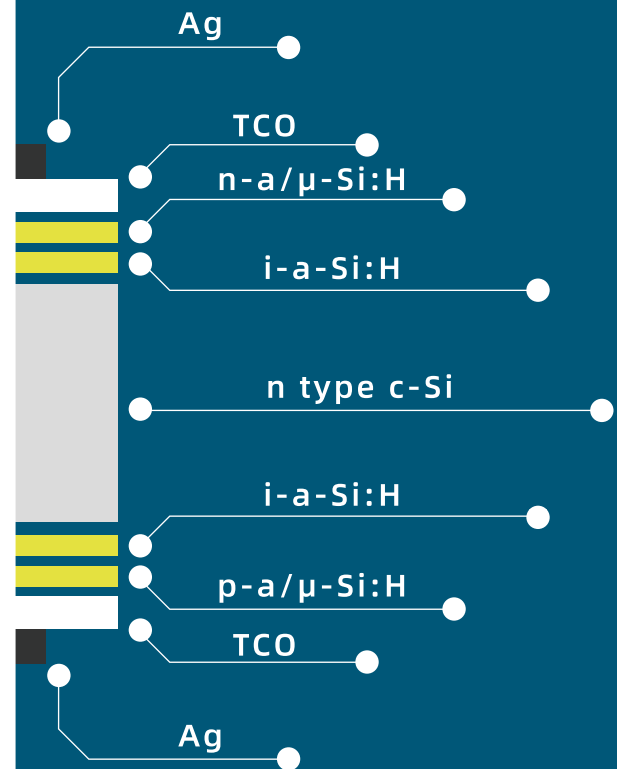
Higher efficiency at high temperature

The lowest temperature coefficient up to $-0.26\%/^{\circ}\text{C}$, at higher temperature, the output of HJT cell per W is about 0.6-3.9% higher than that of bifacial PERC cell.



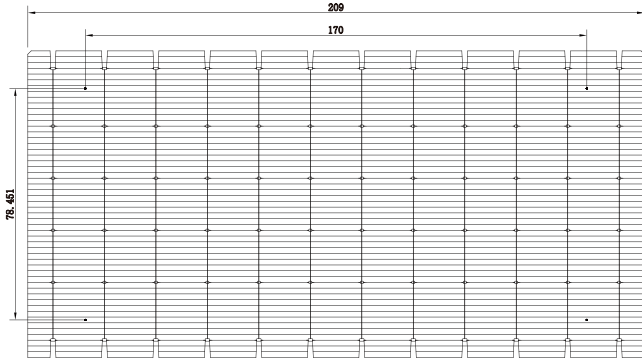
PID Free

The surface of the cells is TCO, the charge will not generate polarization on TCO surface of the battery, and there is no PID phenomenon.



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Front Side



Rear Side



Electrical performance parameters

Eff binning	Eff (%)	Pmpp (W)	Vmpp (V)	Impp (A)	Voc (V)	Isc (A)	FF (%)
ZE-210M-25.0	25.0	5.52	0.676	8.15	0.748	8.52	86.58
ZE-210M-24.9	24.9	5.50	0.675	8.14	0.748	8.50	86.39
ZE-210M-24.8	24.8	5.47	0.664	8.24	0.746	8.63	84.90
ZE-210M-24.7	24.7	5.45	0.660	8.25	0.744	8.65	84.54
ZE-210M-24.6	24.6	5.43	0.660	8.22	0.744	8.63	84.48
ZE-210M-24.5	24.5	5.41	0.657	8.22	0.743	8.63	84.26
ZE-210M-24.4	24.4	5.39	0.656	8.21	0.743	8.62	84.01
ZE-210M-24.3	24.3	5.37	0.653	8.21	0.743	8.62	83.72
ZE-210M-24.2	24.2	5.35	0.651	8.20	0.743	8.62	83.43

under standard test conditions (1000W/m², AM1.5, 25°C) Voc (Isc)
The amplitude of the wave decreases with the increase of irradiance.

Irradiation characteristics

Radioactivity (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

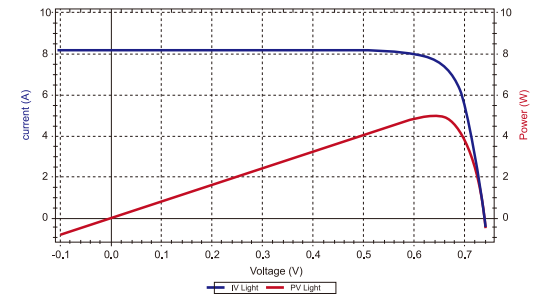
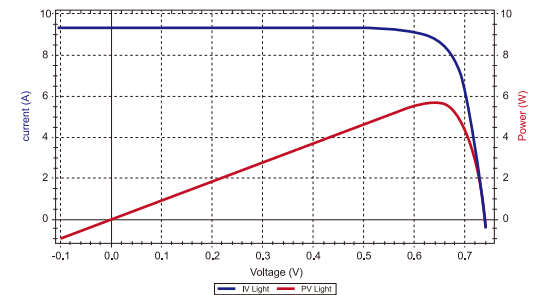
Temperature Coefficient

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

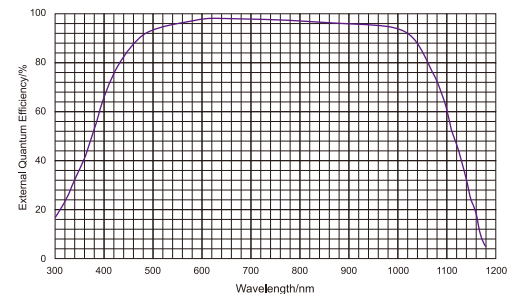
Mechanical parameters and design

Size	210mm×105mm±0.25mm
Thickness	130±30μm
Front (-)	12×0.06mm Busbar (Silver) , Blue (TCO) , Sonsistent color
Rear (+)	12×0.06mm Busbar (Silver) , 148 Fingers (Silver) , Blue (TCO) , Sonsistent color

I-V Cure



Spectral effect



*If necessary, adjust the information in this technical parameter file at any time. All accurate. Due to continuous innovation, research and development and product improvement, Zoeast PV reserves the right to make slight deviations from the technical parameters contained in this technical parameter document without prior notice, and Zoeast T PV does not guarantee its completeness.