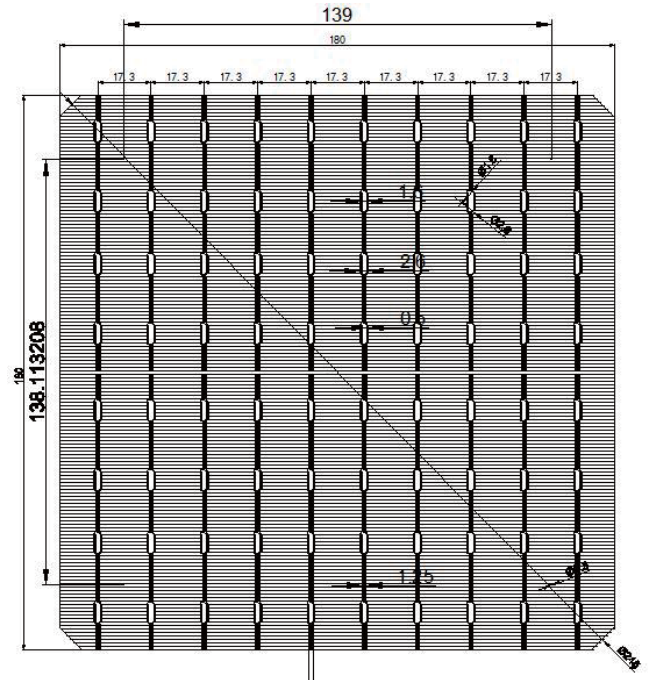
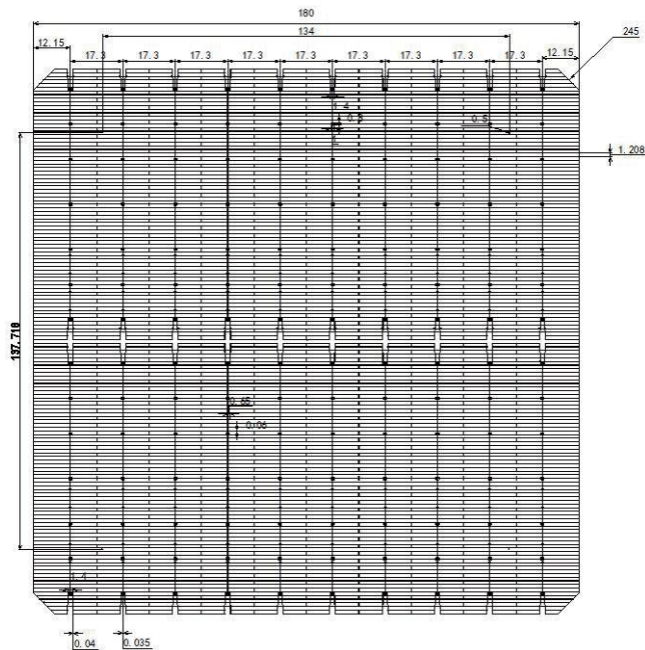


PHOTOVOLTAIC MONO PERC SOLAR CELL
182-10BB MONO-CRYSTALLINE PERC+SE Bifacial Solar Cell

Product Appearance

Front Side

Back Side



Technical Data and Design

Dimension	182mm*182mm±0.25mm
Bulk Materials	P-type monocrystalline silicon
Cell Thickness	155µm±17.5µm
Front side (+)	10*0.06 ±0.03mm busbar (silver), 150 ±15 fingers Blue (dark blue) antireflective film (silicon nitride)
Back side (-)	Back electrode width (silver) 1.2 ±0.3mm, 170 ±17 fingers

Light Intensity Reliability					
Intensity (W/m ²)	1000	900	800	600	400
Uoc	1.000	0.996	0.991	0.988	0.962
Isc	1.000	0.903	0.803	0.602	0.403

Temperature Coefficients

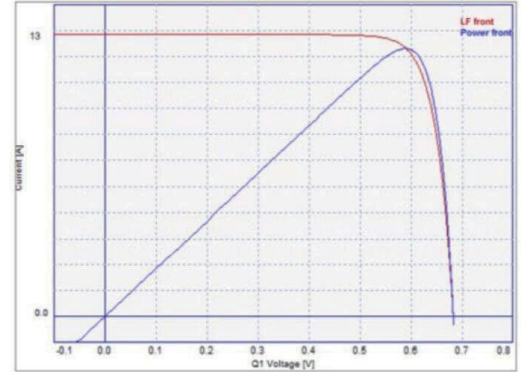
Current Temperature Coefficient	TKcurrent: +0.07%/°C
Voltage Temperature Coefficient	TKvoltage: -0.36%/°C
Voltage Temperature Coefficient	TKpower: -0.38%/°C

Weldability

Peel Strength $\geq 1.4\text{N/mm}$

Results may vary depending on electrode, welding method, and conditions.

IV Curve



Electric Performance

Eff(%)	Pmpp(W)	Umpp(V)	Impp(A)	Uoc(V)	Isc(A)	FF(%)
23.3	7.69	0.613	12.539	0.692	13.593	82.05
23.2	7.66	0.612	12.526	0.691	13.584	81.94
23.1	7.63	0.611	12.495	0.690	13.577	81.84
23.0	7.59	0.611	12.426	0.689	13.568	81.73
22.9	7.56	0.610	12.401	0.688	13.560	81.64
22.8	7.53	0.610	12.350	0.687	13.554	81.50
22.7	7.49	0.608	12.324	0.687	13.548	81.36
22.6	7.46	0.607	12.292	0.686	13.541	81.11
22.5	7.43	0.607	12.245	0.686	13.534	80.96
22.4	7.40	0.606	12.214	0.685	13.528	80.69
22.3	7.36	0.605	12.174	0.684	13.358	80.55
22.2	7.33	0.605	12.118	0.683	13.346	80.41
22.1	7.30	0.604	12.079	0.683	13.337	80.14

* Taking the Voc(Isc) tested at 1000W/m2 as the standard, test the decrease of Voc (Isc) with the light intensity.

Back Electrical Performance Distribution

Type	Eff(%)	Maxium Output Power Pmpp(W)	Maxium Power Point Voltage(V)	Maxium Power Point Current Impp(A)	Open-Circuit Voltage Uoc(V)	Short-Circuit Current Isc(A)
16.0	>16	5.28	0.578	9.136	0.676	10.119
15.7	15.5-16.0	5.18	0.572	9.068	0.675	10.056
15.2	>15-15.5	5.02	0.565	8.877	0.673	9.989
14.8	<15	4.89	0.595	8.743	0.671	9.903

Standard test conditions:1000W/m², AM1.5, 25°C

The above technical parameters are subject to technical changes and tests, and Sunergy Tech reserves the right of final interpretation.



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