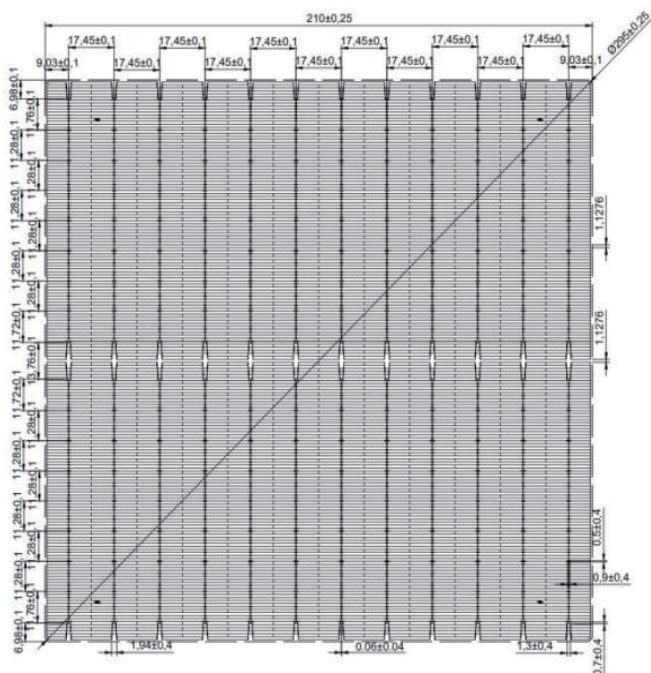


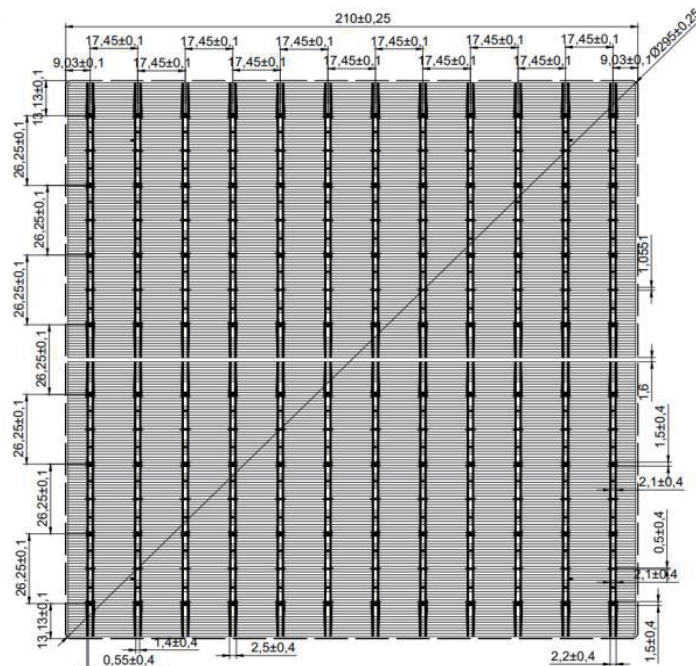
PHOTOVOLTAIC MONO PERC SOLAR CELL
 210MM12BB MONO-CRYSTALLINE BIFACIAL PERC SOLAR CELL

Product Appearance

Front Side



Back Side



Technical Data and Design

Dimension 182mm*182mm±0.25mm

Bulk Materials P-type monocrystalline silicon

Cell Thickness 150±17.5µm

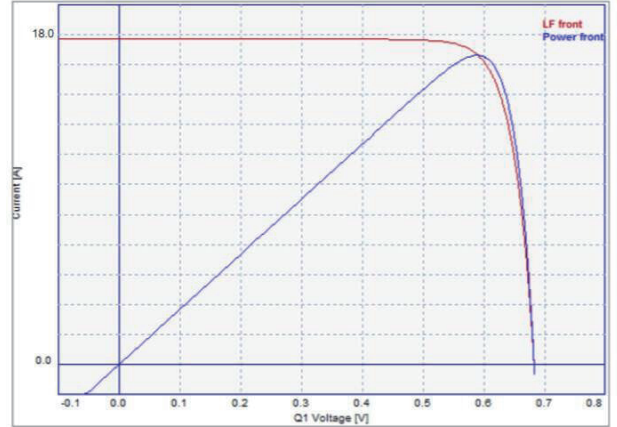
Front side (+) 12*0.06±0.04mmbusbar (silver), 174±15 fingers
 Blue (dark blue) color antireflective film (silicon nitride composite film)

Back side (-) Back electrode width (silver) 2.12 ±0.4mm, back covered with 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

IV Curve

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.

Electric Performance

Eff(%)	Pmpp(W)	Umpp(V)	Impp(A)	Uoc(V)	Isc(A)	FF(%)
23.1	10.18	0.590	17.261	0.690	18.186	81.15
23.0	10.14	0.589	17.216	0.689	18.166	81.01
22.9	10.10	0.587	17.206	0.688	18.140	80.93
22.8	10.05	0.586	17.151	0.687	18.125	80.71
22.7	10.01	0.584	17.140	0.686	18.108	80.58
22.6	9.97	0.583	17.101	0.685	18.080	80.46
22.5	9.92	0.581	17.074	0.684	18.062	80.18
22.4	9.88	0.579	17.064	0.683	18.049	80.02
22.3	9.83	0.577	17.036	0.682	18.030	79.94
22.2	9.79	0.575	17.026	0.681	18.016	79.79
22.1	9.75	0.574	16.986	0.680	17.995	79.68

* 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

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	5.28	0.578	9.136	0.676	10.119
15.5-16.0	5.18	0.572	9.068	0.675	10.056
> 15-15.5	5.02	0.565	8.877	0.673	9.989
< 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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