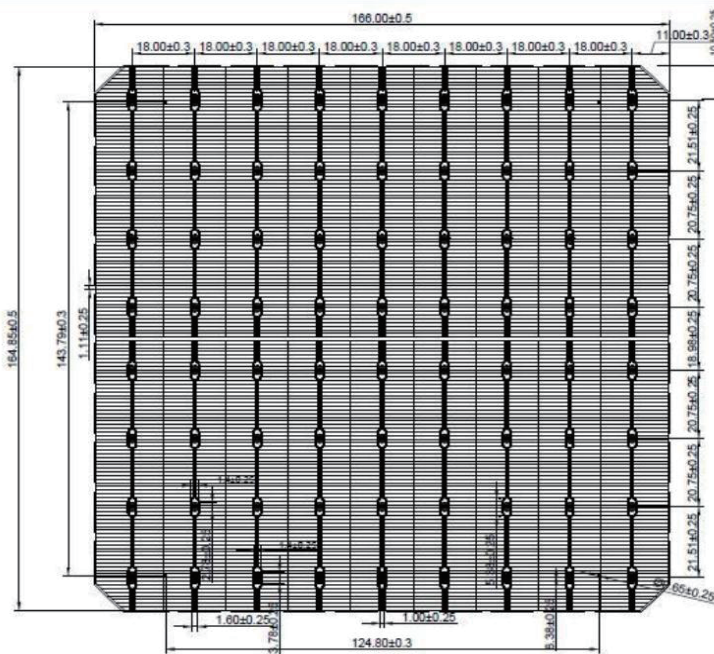
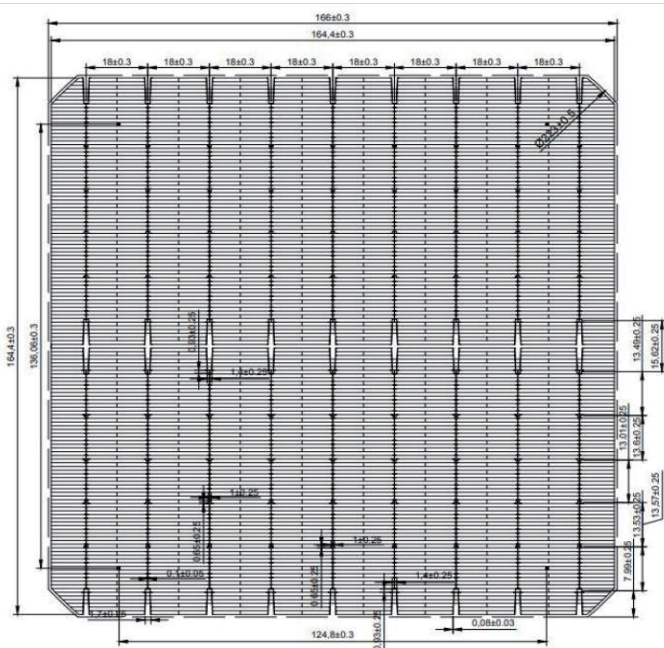


PHOTOVOLTAIC MONO PERC SOLAR CELL
166-9BB MONO-CRYSTALLINE PERC SOLAR CELL M6B9B

Technical Data and Design

Dimension	166mm*166mm±0.25mm
Bulk Materials	P-type monocrystalline silicon
Cell Thickness	150±17.5µm
Front side (+)	9*0.1±0.05mm busbar (silver), 146 fingers Anti-broken grid design, blue anti-reflection film (silicon nitride)
Back side (-)	Back electrode width (silver) 1.4 ±0.5mm, back surface covered by fingers,150 fingers on the back, anti-broken grid design

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

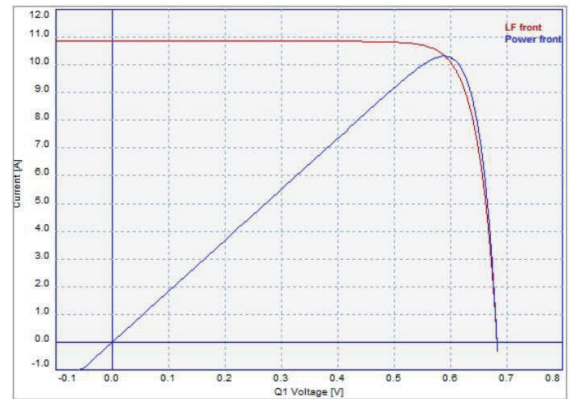
Current Temperature Coefficient	TKcurrent: +0.07%/°C
Voltage Temperature Coefficient	TKvoltage: -0.36%/°C
Power Temperature Coefficient	TKpower: -0.38%/°C

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	6.39	0.5927	10.799	0.6929	11.284	81.71
23.2	6.36	0.5915	10.752	0.6917	11.261	81.65
23.1	6.33	0.5901	10.727	0.6905	11.246	81.51
23.0	6.31	0.5886	10.714	0.6893	11.230	81.48
22.9	6.28	0.5871	10.690	0.6881	11.216	81.36
22.8	6.25	0.5856	10.674	0.6869	11.201	81.24
22.7	6.22	0.5843	10.650	0.6856	11.187	81.14
22.6	6.20	0.5826	10.635	0.6847	11.172	81.00
22.5	6.17	0.5811	10.615	0.6835	11.158	80.88
22.4	6.14	0.5795	10.598	0.6823	11.142	80.66
22.3	6.11	0.5779	10.579	0.6811	11.128	80.57
22.2	6.09	0.5764	10.559	0.6793	11.121	80.38
22.1	6.06	0.5749	10.540	0.6789	11.103	80.26
22.0	6.03	0.5731	10.525	0.6776	11.090	80.15
21.9	6.00	0.5716	10.503	0.6765	11.073	80.04
21.8	5.98	0.5700	10.485	0.6753	11.057	79.91

* 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	4.44	0.5884	7.549	0.6788	8.019
15.7	15.5-16.0	4.30	0.5782	7.492	0.6688	7.940
15.2	> 15-15.5	4.17	0.5721	7.335	0.6650	7.735
14.8	< 15	4.06	0.5657	7.173	0.6592	7.554

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.



SUZHOU SUNERGY TECHNOLOGY CO.,LTD

Add: No.199, Shishan Road, Suzhou New District, Suzhou City, Jiangsu Province, China

Tel: +86-512-66673447 sales@sunergypower.cn